Prepared for

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PHASE I INITIAL SITE INVESTIGATION
HAFFNER REALTY TRUST
284 WINTER STREET
HAVERHILL, MA

RAMBOLL ENVIRON

PHASE I INITIAL SITE INVESTIGATION
HAVERHILL, MA

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Description	**Phase I Initial Site Investigation** **Haffner Realty Trust** **RTNs 3-32792 and 3-32875**

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1 INTRODUCTION

Ramboll Environ US Corporation (Ramboll Environ) has prepared this Phase I Initial Site Investigation (Phase I) report on behalf of Haffner Realty Trust (Haffner), pursuant to the Massachusetts Contingency Plan (MCP, 310 CMR 40.0000) for the Haffner property located at 284 Winter Street in Haverhill, MA (the "disposal Site" or "Site"). A Site Location Map is presented as **Figure 1**.

The disposal Site is identified with Massachusetts Department of Environmental Protection (MassDEP) Release Tracking Numbers (RTNs) 3-32792 and 3-32875, respectively, due to the presence of impacted soil and groundwater exceeding MCP 120-day notification thresholds as well as a condition of Substantial Release Migration (SRM) due to the observance of a sheen on the Little River adjacent to the Site. The RTNs are discussed in more detail below.

This Phase I is required due to RTN 3-32793; however, because Haffner is linking the RTNs, both RTNs are discussed herein.

Appendix A contains the MassDEP Notices of Responsibility (NOR), respectively, for RTN 3-32875 dated June 3, 2015 and for RTN 3-32792 dated April 10, 2015.

2 GENERAL DISPOSAL SITE INFORMATION

This section provides general information describing the disposal Site and surrounding area,

2.1 Subject Area

The Site is located at 284 Winter Street in Haverhill, MA (**Figure 1**) and is identified on City of Haverhill Tax Assessors Map 307 as Lot 2-1. The geographic coordinates of the Site are:

- 42.77723 N Latitude
- 71.08760 W Longitude

Land use surrounding the Site is characterized by a combination of industrial, commercial, and residential use. Based on population density information available on the MassDEP Geographic Information System (MassGIS) "Oliver," the residential population located within a ½ mile radius of the Site is approximately 850 people. According to the MassDEP Phase 1 Site Assessment Map (**Figure 2**) dated February 25, 2016, no institutions, as defined by the MCP, are located within 500 feet of the Site. The MCP defines institutions as any publicly or privately owned hospital, health care facility, orphanage, nursing, home, convalescent home, educational facility, or correctional facility, where such facility in whole, or in part provides overnight housing.

The Site is abutted to the north by Winter Street, across which is a vacant industrial mill complex. The Site is abutted to the south and west by the Little River, beyond which are commercial and residential buildings. The Site is abutted to the east by an active Massachusetts Bay Transportation Authority (MBTA) railroad right-of-way, beyond which is a residential apartment complex.

The Little River discharges to the Merrimack River approximately ¼ mile to the south of the Site, after flowing through a tunnel beneath various properties within the City of Haverhill.

The Site encompasses approximately 1.2 acres and is currently developed as: (1) a retail gasoline station including petroleum underground storage tanks (USTs) and fuel dispensers; (2) an automated car wash; and (3) a fuel oil distribution facility including a loading rack for No. 2 fuel oil and USTs. Remaining areas are predominately covered with asphalt and the concrete pad covering the six (6) petroleum USTs (See Site Layout - **Figure 3**). Relatively smaller landscaped areas exist along the western perimeter of the Site along the retaining wall adjacent to the Little River and in the southern Site area.

The current USTs at the Site include:

- Three 20,000-gallon, single-walled, gasoline USTs (super, plus and regular) installed in 1977;
- Two 20,000-gallon, single-walled, fuel oil USTs installed in 1977; and
- One 6,000-gallon, single-walled, diesel UST installed in 1983.

Approximately three to five (3-5) on-Site workers are present at the Site at any given time working as attendants in the gas station kiosk and car wash. Fuel oil distribution operations at the Site were discontinued in February 2015 so there are no workers on Site related to those former operations.

Vehicular access to the Site is from Winter Street on the north side of the Site. According to the draft Phase I/II report prepared by Lessard Environmental, Inc. (Lessard) (**Appendix B**), electrical, natural gas, and telephone service connects to the Site buildings through underground lines entering

the Site from Winter Street (Lessard 2014). The Site is serviced by municipal water and sewer and based on the MassGIS, the nearest municipal water supply source is located greater than ½ mile from the Site.

The Site is located at an approximate elevation of 24 feet above sea level and the majority of the Site is flat, sloping slightly to the west-southwest. The closest surface water body is the Little River, which abuts the Site to the west and south.

2.2 DEP Release Tracking Numbers (RTN)

The following summarizes the existing RTNs for the Site.

RTN 3-32792 is associated with impacted soil and groundwater exceeding 120-day notification thresholds, as reported to MassDEP on March 30, 2015. The Release Notification Form (RNF) for RTN 3-32792 was filed with MassDEP on March 30, 2015.

RTN 3-32875 is associated with the 2-hr verbal notification made to MassDEP on May 12, 2015 due to the observance of a sheen on surface water (the Little River). Also on that date, light non-aqueous phase liquid (LNAPL) was observed in groundwater monitoring wells at the Site at thicknesses exceeding 120-day notification thresholds. The RNF for RTN 3-32875 was filed with MassDEP on July 10, 2015.

As required by the MCP at 40.0420(7) to address the 2-hour reporting condition associated with RTN 3-32875, an Immediate Response Action (IRA) Plan was submitted to the MassDEP on July 17, 2015 (Ramboll Environ 2015a). Subsequent IRA Status reports have been submitted on September 11, 2015 and March 13, 2016 (Ramboll Environ 2015b, 2016).

Haffner intends to link RTN 3-32875 to the primary RTN 3-32792 with the submittal of MassDEP Bureau of Waste Site Cleanup (BWSC) transmittal form BWSC 107.

2.3 Natural Resource Areas

The following is a list and description of natural resource areas that, if present within 500 feet of the Site, must be identified in accordance with 310 CMR 40.0483(1) (a) (8). Based the MassDEP Phase 1 Site Assessment Map (**Figure 2**), the Little River, which abuts the Site to the west and south, is the only natural resource area present within 500 feet of the Site. The complete list of potential natural resource areas is listed below.

<u>Surface Waters:</u>

- Wetlands – none identified
- Vernal Pools – none identified
- Ponds – none identified
- Lakes – none identified
- Streams – none identified
- Rivers –The Little River abuts the Site to the west and south
- Reservoirs – none identified

<u>Drinking Water Supplies:</u>

- Zone II areas – none identified
- Interim Wellhead Protection Areas – none identified

- Zone A Areas - none identified
- Potentially Productive Aquifers – none identified
- Private Wells – none identified

Areas of Critical Environmental Concern:

- Sole Source Aquifers – none identified
- Local, State and/or Federal Protected Open Space – none identified
- Fish Habitats – none identified
- Habitats of Species of Special Concern – none identified
- Threatened or Endangered Species – none identified

2.4 MCP Soil and Groundwater Categories

The groundwater classification at the Site is GW-2 and GW-3. The entire Site is subject to GW-3 standards. In addition, due to their proximity to existing Site buildings (within 30 feet) and depth to groundwater (less than 15 feet), groundwater in the vicinity of MW-1 and MW-3 is also subject to the more stringent GW-2 groundwater standards.

Site soils are classified as S-2 and S-3 based on their exposure potential (i.e. frequency of use, intensity of use, and accessibility).

- Children are present on the Site and their frequency and intensity of use are both considered to be low based on the Site's current usage as a retail gasoline station.
- Site soils are generally found beneath paved surfaces; therefore, they are considered to be accessible only in the landscaped/unpaved areas where they are classified as S-2 at depths above 3 feet.
- The remaining soils on the Site beneath paved areas and below three feet in unpaved areas are considered to be potentially accessible above a depth of 15 feet bgs and isolated below 15 feet. These soils are classified as S-3.
- All soil samples submitted for laboratory analysis during this investigation were collected from S-3 areas.

3 DISPOSAL SITE MAP

The preliminary Disposal Site Area (DSA), based on existing information, is depicted on **Figure 3**.

The Site Layout Plan shows the Disposal Site and physical Site features including:

- Property line;
- Gas station kiosk, overhead canopy, fuel dispensers, fuel oil loading racks, current petroleum USTs;
- Car wash, two (2) car wash water supply wells (active and out-of-service);
- Storm water catch basins;
- Five (5) vacuum islands;
- Landscaped areas;
- Soil test borings/monitoring wells completed by Ramboll Environ in April 2015; and
- Soil test borings/monitoring wells completed by Lessard Environmental in November 2014.

Figure 4 depicts an October 2014 aerial photograph of the Site with an undated historical MGP site plan overlay showing the configuration of the former Manufactured Gas Plant (MGP) facilities operated by the Haverhill Gas Works prior to Haffner's occupancy of the Site (**Appendix C**).

4 DISPOSAL SITE HISTORY

4.1 Owner/Operator History

Haffner Realty Trust has been continuously operating a retail gasoline station, car wash, and fuel oil distribution facility at the Site since approximately 1976/1977 when the Haffner facility was constructed. Three gasoline USTs and two fuel oil USTs were installed in 1977, and one diesel UST was installed in 1983; all are still active at the Site.

The Site was historically the location of a MGP facility operated by the Haverhill Gas Works from approximately 1853 to 1970. Sometime between 1970 and 1976, the vast majority of aboveground portions of the former MGP structures were removed and/or demolished. An aerial photo from 1971 indicates that the only above ground buildings/structures remaining at that time were the former coal bins located adjacent to the railroad along the eastern perimeter of the Site, an office and stock room on the northwestern portion of the Site, and one aboveground oil tank (presumably the 200,000-gallon residium oil tank depicted on the undated site plan in the southern portion of the Site) (EDR 2016a). Remnants of brick walls associated with the former MGP facilities are still visible along the northwestern perimeter of the Site along the Little River.

Environmental Data Resources, Inc. (EDR) provided historical aerial photographs spanning the period from 1938 to 2012 (**Appendix D**). The following table summarizes the notable observations resulting from an analysis of these photographs.

Table 1 – Summary of Historical Aerial Photographs (EDR 2016a)

Year	Interpretation
2012, 2011, 2010, 2009, 2008, 2006, 1998, 1995, 1985, and 1978	The configuration of the Site buildings is identical to the present showing the configuration of the retail gasoline station, car wash, and fuel oil distribution facility.
1971	The 1971 photograph depicts the Site as being vacant with the exception of former coal bins located adjacent to the railroad along the eastern perimeter of the Site, a building on the northwestern portion of the Site, and an approximately 35-foot diameter above ground storage tank (presumably the 200,000-gallon residium oil tank from the undated site plan) in the southern portion of the Site. All other structures associated with the former MGP appear to have been removed.
1969, 1953, 1938	The aerials depict the configuration of the former MGP facility on those dates.

EDR was contracted to provide available Sanborn® maps for the Site. EDR provided Sanborn® maps from between 1886 and 1971. The following tables summarizes the notable observations resulting from an analysis of these maps (**Appendix E**).

Table 2 – Summary of Sanborn Maps (EDR 2016b)	
Year	**Interpretation**
1886	The Sanborn® map (1886) indicates "The Haverhill Gas Works" consisted of "coal sheds," two (2) "gas holders," and buildings with the following labels "purifiers," "chemicals," "retorts," "condenser," and "ENG."
1893	Additional structures include an "oil tank house," a "pump" and an additional building to the west of the former "retort" with labels "condenser" and "retort" (two "retorts" are present on the 1893 Sanborn Map).
1906	An expansion of the oil house (located in the middle portion of the MGP facility) is shown; it is noted that the Haverhill Gas Light Co "runs night and day."
1949	The facility is labelled as a "water gas plant" and has been updated with a "purifier pit" formerly labelled as a "gas holder", three (3) additional round oil tanks (24 feet, 26 feet, and 35 feet), two (2) rectangular tanks near the office and stock room labelled "tar" and "distilling," "tar separator" in the former "Store House," and three (3) rectangular oil tanks at the southern portion of the Site.
1954	Two (2) small circular tanks with illegible descriptions are located west of the "purifier pit."
1961	No significant additions.
1971	Only one 35-foot oil tank (presumably the 200,000-gallon "residium" oil tank depicted on the undated site plan), office and stock room, and rectangular feature labelled "STGE" are present; all other structures appear to have been removed.

4.2 Release History

There are no known sources or specific location of a release(s), no known cause of release(s) and no known release(s) from Haffner; however releases have manifested themselves in the Little River as a sheen and in on-Site monitoring wells where sheen and LNAPL have been detected. The most recent tank tightness testing and inspections of the Haffner UST facility were performed in January and March 2015 and no issues were reported with either the USTS, piping, or dispensers.

As discussed further below, the suspected cause of the releases is the former MGP operation on the Site. Accordingly there are no known date(s), duration or volume of the release(s). The type of OHM released appears to be MGP-related materials. Conditions giving rise to the release notification for the linked RTNs discussed herein are provided below.

Three separate incidents involving the notification of a release of oil and/or hazardous materials (OHM) have occurred at the Disposal Site.

4.2.1 1988 Spill Incident

Based on a letter from the Haverhill Deputy Fire Chief to the Fire Chief (**Appendix F**), on 4/19/1988, the Deputy Fire Chief responded to a spill that was reported at Haffner's leaking into Little River. The Army Corps of Engineers reported the "stain" to the City Engineer who reported it to the Fire Department. After on-Site discussions between Phil Clough (station manager), Health Department representatives, and the Deputy Fire Chief, the cause of the spill/stain was surmised to be "coal oil or tar from the old Gas company operations when they manufactured gas". The Department of

Environmental Quality Engineering (DEQE) was notified and was reportedly going to send an inspector to the Site. No information concerning DEQE visiting the Site was ever verified. No further information was available pertaining to this issue.

This incident is provided as historical information and did not give rise to either RTN for which this Phase I Initial Site Investigation has been prepared.

4.2.2 120-Day Release Notification (RTN 3-32792)

A draft Phase I/II Environmental Site Assessment of the Disposal Site was prepared by Lessard dated December 2014 (**Appendix B**). The Lessard draft Phase I/II report documents environmental contamination identified on the Site which Lessard indicated could be attributed to: 1) the former use of the Site as a MGP facility by The Haverhill Gas Works from approximately 1886 to 1970; 2) the current use of the Site as a retail gasoline station and fuel oil distribution facility by Haffner since 1976; and/or 3) other potential sources. It should be noted that Lessard's draft report was based on one round of soil and groundwater quality data from three test borings and monitoring wells.

Lessard's draft Phase I/II report documented that volatile petroleum hydrocarbons (VPH) and extractable petroleum hydrocarbons (EPH) were detected in Site soil and groundwater samples at concentrations exceeding MCP Reportable Concentrations (RCs; RCS-1 and RCGW-2, respectively). The MassDEP was notified of the release on March 30, 2015 and RTN 3-32792 was assigned to the release.

4.2.3 2-Hour Release Notification (RTN 3-32875)

On May 12, 2015, while conducting response actions under RTN 3-32792, Ramboll Environ observed a sheen in the Little River, emanating from the western perimeter of the Site at the base of the approximately 15-20 feet high stone and masonry retaining wall immediately abutting the river (**Figure 3**). Since the initial discovery, additional variable and temporal seepages have been observed from various areas along the retaining wall on the Little River adjacent to the Site. Based on groundwater flow, the Little River is located hydraulically downgradient of the Site.

On May 12, 2015, LNAPL was detected in groundwater monitoring wells at the Site at thicknesses exceeding the 120-day notification threshold. LNAPL was observed at two of the eight monitoring wells (ENV-3MW and ENV-9MW) at thicknesses of 0.02 feet and 0.03 feet, respectively (**Figure 3**).

On May 12, 2015, Ramboll Environ assessed the storm water catch basins between the USTs and the Little River for potential Imminent Hazard (IH) and/or SRM as defined in the MCP including presence of LNAPL. Ramboll Environ conducted screening of the catch basins for the potential presence of volatile organic vapors (VOVs) using a photoionization detector and an explosive gas meter for the potential presence of combustible gasses. A second assessment of the storm water catch basins between the USTs and the Little River that could be associated with potential contamination in subsurface utilities at the Site was conducted on May 15, 2015. An IH/SRM condition was not identified, nor was evidence of contamination observed in the catch basins. The location of the storm water catch basins are depicted on **Figure 3**.

On May 18, 2015, a tar-like substance was observed discharging from a pipe protruding from the retaining wall along the river. In addition, based on the degree of staining extending along the base

of the retaining wall and observed sheens in the Little River, it was apparent that seepage of OHM was occurring at various points along the retaining wall.

The age(s) and actual release mechanism(s) associated with the observed sheen on the Little River, the LNAPL observed within the monitoring wells, and the tar-like substance discharging to the riverbank are not presently known and are currently under investigation; although available evidence (historical Site use information, historical release records, tank tightness data, and soil and NAPL chemical data) suggests that the OHM contamination is likely associated with the former MGP operations at the Site.

4.2.4 Measures Taken to Assess, Contain or Mitigate the Release

Ramboll Environ, on behalf of Haffner, submitted an IRA Plan on July 17, 2015 for RTN 3-32875 to address the time-critical release conditions associated with the observance of a sheen in the Little River. IRA Status Report No. 1 was submitted to MassDEP on September 11, 2015, and IRA Status Report No. 2 was submitted on March 11, 2016.

Details concerning the IRAs completed at the Site to date (i.e. analytical lab reports, summary tables, Site plans, waste disposal documents, photographs) can be found in the IRA Plan and Status Reports. A summary of key information obtained from these reports that is relevant to subsequent response actions concerning Disposal Site RTN 3-32875 is presented below.

- Temporary sorbent booms were initially installed in the Little River on May 12, 2015 and have been maintained since that time by Clean Harbors Environmental Services (CHES);
- On-going inspection and maintenance of the temporary sorbent booms has been conducted to assess their effectiveness at containing the sheen and preventing its migration downstream in the Little River. When the temporary boom is observed to have been damaged or breached, it has been replaced. This process has been continued while a more permanent boom installation is being designed;
- Monthly groundwater and LNAPL gauging are being conducted as well as installation of sorbent socks in Site monitoring wells where LNAPL has been observed;
- The pipe protruding from the western retaining wall that had been discharging a tar-like material was capped; and
- Eleven 55-gallon drums of remediation waste (investigation derived waste [IDW] and spent sorbents) were disposed of at off-Site facilities.

4.3 Oil and Hazardous Material Use and Storage History

The following sections describe the historical and current OHM use and storage information for the Site.

4.3.1 Historical OHM Use and Storage

The Haverhill Gas Works Site started out as a coal gas plant in 1853 (Chase 1861). Sanborn® maps depict retorts, condensers, purifiers, and two gas holders present on Site in 1886 (EDR 2016b). By 1890, the MGP was producing 45 million cubic feet (MMcf) of gas per year (USEPA 1985) In 1893, the MGP began storing gas in holders at a different site located on Hilldale Avenue (which is located approximately 0.3 miles northwest of the Site) (AMEC 2007). By 1894, the MGP used the Wilkinson process for coal gas production (Brown 1894).

The facility was converted to a carbureted water gas plant using the Lowe process sometime between 1910 and 1912 (USEPA 1985; American Gas Institute 1917). The Brown's Directory indicates that the facility was still using the Lowe carbureted water gas process in 1922 (Brown 1922). In that year, the facility reportedly used 1,247,569 gallons of gas oil to manufacture gas, and in the process generated by-products including 231,997 gallons of tar and 9,449 gallons of light oil, typically consisting of light aromatics such as benzenes, xylenes and related compounds.

The MGP began distilling tar to produce and sell light oils in 1914 (Otten 1916). A "Tar Cooker" is identified on the undated historical MGP site plan overlay in addition to historical Sanborn Maps (see below). By 1950, gas production reached 835 MMcf (USEPA 1985). The MGP began producing oil gas in 1951 (AMEC 2007). Haverhill Gas Light Company was listed as a "Natural" gas supplier in Brown's 1952/1953 (Brown's 1952-1953). Oil gas production ended in 1960 (AMEC 2007).

The United States Environmental Protection Agency indicates that the Haverhill Gas Works site generated a substantial quantity of tar once it switched over to the carbureted water gas process (USEPA 1985). The amount of tar generated depended upon the type of gas oil used in the process. By the 1950s, the Haverhill Gas Works facility was generating more than 600,000 gallons of tar per year. Although these by-products were typically sold, it is not uncommon to find oil and tar contamination at former MGP facilities due to leaks and spills over the decades of operation.

Appendix C contains the undated historical MGP site plan. There are no references or dates on this plan. Based on Ramboll Environ's review of the historical MGP site plan, it appears to be similar to the 1954 and 1961 Sanborn maps discussed above. The following table summarizes the notable observations resulting from the review of this plan:

Table 3 – Summary of Historical MGP Features Depicted on Undated Historical Site Plan

Item Number (listed on plan)	Identification
1	Water Gas Generator House, Boiler Room, Shop, Condenser House, Stock Room, Engine & Blower Room
2	Compressor Room and Office
3	Purifier House, Meter House Laboratory, Residium Oil Pump House
4	Coal Shed (100,000 tons stored), Coke Shed (100 tons), and Coke Bins
5	Separator House
6	Scrubber
7	Relief Gas Holder (140,000 cu feet)
8	Conor Hot Water Well Wood Cover
9	Tar Drip Tank (10,000 gallons)
9A	Tar Drip Tank (9,000 gallons)
10	Coke Filter
11	Residium Oil Tank (200,000 gallons)
11A	Accumulator
11B	Tar Cooker (8,500 gallons)
11C	Not Located on Plan

Table 3 – Summary of Historical MGP Features Depicted on Undated Historical Site Plan	
Item Number (listed on plan)	**Identification**
11D	Gas Oil Tank (37,000 gallons)
11E	40,000-Gallon Storage Tank
Unidentified	Buried Tar Well [located Beneath Item 7]
Unidentified	Buried Tar Well [located between Items 6 and 8]
Unidentified	Oil Heater [located North of Item 9A]
Unidentified	200 feet "2-1/2" Hose in an apparent pit leading off Site and to the Compressor Room [located between Items 7 and 8]
Unidentified	Coke Pile (400 tons) [located West of Item 9A]

4.3.2 Current OHM Use and Storage

As noted above, there are currently six (6) active petroleum USTs on the Site that include:

- Three, 20,000-gallon, gasoline (regular, plus, super), single-walled, fiberglass reinforced plastic (FRP) USTs installed in 1977;
- Two, 20,000-gallon, fuel oil, single-walled, FRP USTs installed in 1977; and
- One, 6,000-gallon, diesel, single-walled, steel UST installed in 1983.
- In addition, car wash products and chemicals are stored within the car wash building for use during car wash operations.

4.4 Waste Management History

The following describes the historical, current and remediation waste management history for the Site based on available information.

4.4.1 Historical MGP Waste Management

The details regarding the specific waste management practices employed by Haverhill Gas Works during the operation of the Site as an MGP facility are unknown. As noted in **Section 4.3**, in 1922 the facility generated by-products including 231,997 gallons of tar and 9,449 gallons of light oil, typically consisting of light aromatics such as benzenes, xylenes and related compounds and by the 1950s, the Haverhill Gas Works facility was generating more than 600,000 gallons of tar per year. As noted above, although MGP by-products and waste were typically solid, it is not uncommon to find oil and tar contamination at former MGP facilities due to leaks and spills over the decades of operation.

4.4.2 Haffner Waste Management

Based on information provided by Haffner, the following describes current waste management practices at the facility:

- Solid waste is stored on Site in a dumpster which is managed by Charles George Company.
- Hazardous wastes generated in conjunction with facility maintenance are managed by Haffner (under generator ID MP9786832771) and disposed under Hazardous Waste Manifest at Tradebee Treatment & Recycling Northeast, LLC of Meriden, CT.

4.4.3 Remediation Waste Management

Remediation waste generated during completion of recent environmental investigations and ongoing IRAs consist of IDW including soil and groundwater, LNAPL, spent (used) oil-sorbent booms and socks, and personal protective equipment (PPE). All remediation waste has been containerized in 55-gallon drums for subsequent transport and disposal at an authorized disposal facility.

On November 23, 2015, a total of eleven drums of IDW and spent sorbents collected to date were transported from the Site by CHES under Uniform Hazardous Waste Manifest documentation for disposal at Clean Harbors of Braintree, Inc. and Clean Harbors El Dorado, LLC as documented in IRA Status Report No. 2. Remediation waste generated since that time consists of spent sorbents from the monitoring wells and the temporary containment boom, which are being stored on Site in 55-gallons drums pending off-Site disposal.

4.5 Environmental Permits and Compliance History

The following environmental permits and compliance history was assembled through information provided by Haffner as well as supplemental information provided by EDR.

4.5.1 Haffner Facility Environmental Permits

Table 4 summarizes the most recent facility permit, certificates, license, and registration for the Haffner facility. Copies of these documents are contained in **Appendix G**.

Table 4 – Haffner Facility Permits

Permit/Certificate (ID No.)	Issuing Authority	Issue Date	Expiration Date
License to Sell Motor Fuel and/or Automotive Lubricating Oil at Retail (MF0000422)	MA Division of Standards	1/1/2015	12/31/2015 (renewal pending)
Certificate of Compliance for Petroleum Dispensing Facilities (5252)	MA Department of Revenue Underground Storage Tank Program	11/28/2014	11/28/2019
Permit to Maintain an Existing/New Storage Tank Facility for Underground Storage Tanks Regulated under 527 CMR 9.00	MA Department of Fire Services	Not Listed	12/31/2015 (renewal pending)
Registration related to the Keeping. Storage, Manufacture or Sale of Flammables or Explosives (5613)	MA Department of Fire Services	4/1/2015	4/30/2016

Note that Haffner has applied for, and paid the fees associated with, the 2016 License to Sell Motor Fuel and/or Automotive Lubricating Oil at Retail and Permit to Maintain an Existing/New Storage

Tank Facility for Underground Storage Tanks Regulated under 527 CMR 9.00 and is awaiting issuance of the renewal documentation.

- According to the most recent third party UST inspection conducted in March 2015 by P.M Environmental, Inc. (documented on MassDEP Underground Storage Tank Program Form UST FP-289), all of the USTs, piping and dispensers, and monitoring/gauging equipment passed an annual inspection and no indications of releases, leaks, or suspected leaks were found that required notification of the MassDEP in accordance with the MCP (**Appendix G**).

- According to the most recent tank tightness testing performed by P.M Environmental, Inc. on January 20, 2015, all of the USTs and piping passed tightness testing (**Appendix G**).

Appendix G also contains a list of the historical documentation maintained by Haffner pertaining to the operation of the current USTs, including associated inspections, testing, and permits.

4.5.2 Compliance History

Ramboll Environ found one minor historical violation in relation to the Haffner gasoline station.

- In an April 2010 letter regarding the yearly Self Service Motor Fuel Facility Inspection, the Haverhill Fire Department noted one violation in relation to the positive limiting barrier (PLB) grooves around the fuel dispensers at the facility. It was noted that the PLB grooves contained dirt/debris and required cleaning. A follow-up inspection was to occur; however, no other information was provided.

4.5.3 Wastewater Discharge Permit

According to the draft Lessard Phase I/II report, the Site is serviced by municipal water and sewer services. An Application for Sewer Permit was initially filed and approved with the City of Haverhill on December 27, 1976 presumably in conjunction with the development of the Site as the Haffner facility.

4.5.4 Wetlands Notice of Intent

In conjunction with the ongoing IRA, Haffner is in the process of permitting a semi-permanent containment boom system that will be installed in the Little River adjacent to the Site to replace the current temporary boom to provide more robust containment of the observed sheens. Based on feedback from the MassDEP Bureau of Resource Protection – Wetlands, a Wetlands Protection Act Notice of Intent (NOI) will be required to be filed with the MassDEP Wetlands Bureau and the City of Haverhill Conservation Commission prior to the installation of the semi-permanent boom. The NOI has been drafted and is expected to be filed in April 2016.

4.5.5 Environmental Database Search

Ramboll Environ contracted with EDR in March 2016 to prepare of summary of updated listings in federal and state agency databases for the site. A copy of the EDR Radius Map™ Report with GeoCheck®, dated March 1, 2016, is presented in **Appendix H**.

No additional information regarding environmental permits and compliance history was noted in the EDR report.

4.6 Potentially Responsible Parties (PRP)

As presented in the NORs (**Appendix A**) issued by the MassDEP on June 3, 2015 and April 10, 2015, Haffner Realty Trust is considered a PRP for the release of OHM at the Site associated with RTNs 3-32792 and 3-32875.

National Grid, successor to the former owner and/or operator (Haverhill Gas Works) of a vessel or property on which hazardous materials were stored, may also be a PRP in accordance with Massachusetts General Law (MGL) Chapter 21E, Section 5.

5 SITE HYDROGEOLOGICAL CHARACTERISTICS

The following sections detail the subsurface investigations conducted at the Site including the scope of Ramboll Environ's test boring and monitoring well installation activities and a generalized description and depiction of hydrogeologic conditions at the Site.

5.1 Test Boring Investigation

From April 27-28, 2015, Ramboll Environ oversaw the installation of 13 soil test borings across the Site to assess previously reported environmental contamination and gather data to evaluate potential source(s) of observed contamination. The borings installed by Ramboll Environ are depicted on **Figures 3** and **4**.

Prior to test boring activities, ground penetrating radar (GPR) and electromagnetic (EM) geophysical surveys were conducted to search for evidence/relicts of former MGP structures and to avoid potential subsurface utilities that could potentially be damaged during test boring activities. The geophysical surveys were conducted by Geophysical Applications of Holliston, Massachusetts. **Appendix I** contains the geophysical survey report including figures depicting numerous small scale point and linear anomalies observed across the Site that were interpreted to represent remnants of former subsurface structures/foundations, debris, piping, etc. remaining after the demolition of the former MGP facility. This inference is also supported by the numerous shallow refusals encountered during test boring activities.

Of particular note, during the geophysical investigation, a large ferrous metal anomaly was located in the approximate location of the former "8,500-gallon Tar Cooker" (depicted on the historical MGP site plan along the western perimeter of the Site in the vicinity of ENV-3MW) indicating this vessel may still be present in this area. Note that ENV-3MW was drilled and installed outside the area of the actual anomaly observed in the field. Although ENV-3MW appears to be located on the anomaly on the Site Plan, that is indicative of an inaccuracy associated with the overlay of the historical features on the current aerial photo (see **Figure 4**).

Soil borings were installed by New England Geotech, Inc. of Jamestown, RI on using a Geoprobe Model 6620DT direct-push drill rig, and soil samples were collected continuously from the ground surface to the bottom of each boring using a five-foot, stainless steel, macro core sampler equipped with disposable acetate sleeves. Soil samples were logged in the field for grain size distribution, moisture content, and visual and olfactory evidence of contamination. In addition, soil samples were screened in the field for total ionizable volatile organic vapors (TVOVs) using a photoionization detector (PID). **Appendix J** contains the test boring logs documenting the test boring observations for the soil test borings installed during the evaluation.

One (1) soil sample from each test boring was chosen for laboratory analyses based on (in order of priority): 1) visual or olfactory evidence of contamination; 2) the interval containing the highest TVOV reading; or 3) just above the groundwater table in the smear zone. The soil samples were submitted to Alpha Analytical (Alpha) of Westborough, MA for analysis of the following:

- EPH by MassDEP Method EPH-04-1;
- VPH by MassDEP Method VPH-04-1.

In addition, seven (7) heavily contaminated soil samples from the test borings (based on visual/olfactory observations and/or PID headspace readings) and one sample of a tar-like LNAPL material encountered in ENV-9MW at approximately 10.0 – 12.5 feet below ground surface (bgs) were submitted to Alpha for the following expanded laboratory analytical suite of parameters:

- Saturated Petroleum Hydrocarbons/Total Petroleum Hydrocarbons (TPH) by Gas Chromatograph (GC)/Flame Ionization Detector (FID) – EPA Method 8015D-Modified;
- Alkylated Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270D-SIM-Modified; and
- PIANO (Paraffins, Isoparaffins, Aromatics, Naphthenes, Olefins, Fuel Additives) Analysis by EPA Method 8260B (excluding the tar).

In addition to the primary samples, the following quality assurance/quality control (QA/QC) samples were collected and submitted for laboratory analyses to facilitate an MCP data usability assessment.

- Matrix Spike;
- Matrix Spike Duplicate;
- Field Duplicate; and
- Trip Blank.

Appendix K-1 contains the Alpha laboratory analytical reports for the soil samples collected during the evaluation. The analytical results from the soil sampling program are summarized in **Tables 5** and **6**, and are further discussed in **Section 6**.

5.2 Groundwater Monitoring Well Installation and Sampling Activities

Of the 13 test borings, five (ENV-1MW, ENV-3MW, ENV-5MW, ENV-8MW, and ENV-9MW) were completed as groundwater monitoring wells. The wells were constructed of 1.5-inch PVC with 10-foot machine slotted pre-packed well screens flush-threaded to matching solid PVC riser. The well screens were placed approximately 7 to 8 feet below the water table observed at the time of drilling to allow for the assessment of the potential presence of LNAPL. Solid PVC riser was installed above the well screen to the ground surface. The annulus around each screen was backfilled with filter sand to a point approximately one to two feet above the top of screen (where possible), above which an approximately 1-foot thick, hydrated, bentonite seal was installed. A 4-inch aluminum roadbox was then cemented into place flush with the ground surface to protect the wells, prevent infiltration of surface water, and provide access for sampling.

The test boring logs contained in **Appendix J** document the monitoring well installation details for the monitoring wells installed by Ramboll Environ.

In addition, the horizontal and vertical position of all existing and new monitoring wells installed during the initial evaluation were surveyed by a Massachusetts-licensed land surveyor, DiPrete Engineering, to the nearest 1/100th of a foot. This information was used to analyze subsequent groundwater elevation data.

On May 6, 2015, prior to groundwater sampling activities, the wells were developed by removing approximately 3 to 5 well volumes using inertial lift pumps connected to disposable high density

polyethylene (HDPE) tubing. On May 12, 2015, after allowing the wells to equilibrate for 5 days, the wells were tested for the presence of LNAPL using an electronic interface probe. If the wells were free of measurable LNAPL, groundwater samples were collected from the wells using EPA Region 1 Low-Flow Groundwater Sampling Techniques. **Appendix L** contains the low flow groundwater sampling logs for the sampling event.

The groundwater samples were submitted to Alpha for analysis of the following:

- EPH by MassDEP Method EPH-04-1; and
- VPH by MassDEP Method VPH-04-1.

The following QA/QC samples were collected and submitted for laboratory analyses in addition to the primary samples to facilitate an MCP data usability assessment.

- Matrix Spike;
- Matrix Spike Duplicate;
- Field Duplicate;
- Equipment Blank; and
- Trip Blank.

Appendix K-2 contains the Alpha laboratory analytical reports for the groundwater samples collected during the evaluation. The results are summarized in **Table 7** and are further discussed in **Section 6**.

5.3 Car Wash Supply Well Sampling Activities

On March 16, 2015, Ramboll Environ collected a sample of the water from the car wash water supply well which is located to the southeast of the car wash building (**Figures 3** and **4**). Based on information provided by Haffner, the second water supply well located to the north of the car wash building is out-of-service. Both wells are reportedly drilled bedrock wells on the order of 400 feet deep.

The water sample was collected from a spigot within the car wash building adjacent to the holding tank prior to the filtration system as the well itself is not accessible for direct sampling. The groundwater samples were submitted to Alpha for analysis of the following:

- EPH by MassDEP Method EPH-04-1; and
- VPH by MassDEP Method VPH-04-1.

The following QA/QC samples were collected and submitted for laboratory analyses in addition to the primary samples.

- Field Duplicate; and
- Trip Blank.

Appendix K-3 contains the Alpha laboratory analytical reports for the water supply well samples collected during the evaluation. The results are summarized in **Section 6**.

5.4 General Site Topography

As noted above, the Site is located at an approximate elevation of 24 feet above sea level and the majority of the Site is flat, sloping slightly to the west-southwest. An approximately 15 to 20 foot high retaining wall is located on the western perimeter of the Site immediately adjacent to the Little River, which abuts the Site to the west and south.

There are three storm water catch basins located on the western portion of the Site which discharge to the Little River (see **Figures 3** and **4**).

There are no bedrock outcrops on the Site.

5.5 Geologic and Stratigraphic Conditions

Based on the soil boring logs presented in the Lessard draft Phase I/II and Ramboll Environ investigation, the shallow unconsolidated overburden deposits in the vicinity of their test borings generally consisted of fine to coarse sand with variable amounts of gravel, silt, and debris (wood fragments, coal fragments, brick, tar) in the upper 5 to 17 feet bgs. Below the fill layer, the natural unconsolidated geologic deposits consisted of fine sand and silty/clayey fine sand. Lessard's test boring logs contained in **Appendix B** document their test boring observations and monitoring well installation details for the groundwater monitoring wells.

Impacts have been noted on the vast majority of Ramboll Environ's and Lessard's soil boring logs. Coal fragments, mothball-like odors, and slightly elevated PID readings (<100 parts per million [ppm]) were generally first observed below 5-7 feet bgs. At depths greater than 5-7 feet bgs, tar/coal fragments, high (>100 ppm) PID readings, sheens/evidence of LNAPL, and very strong moth-ball-like and petroleum-like odors are were observed to be widespread across the Site. Refer to **Table 8** for a summary of the PID readings collected across the Site.

The thirteen (13) soil borings advanced by Ramboll Environ in April 2015 were generally consistent with Lessard's observations, with fill material consisting of varying amounts of wood fragments, brick, coal, concrete, and tar fragments existing up to a depth of 20 feet bgs. Where encountered, the natural unconsolidated deposit consisted of silty fine sand from as shallow as 10 feet bgs (ENV-8MW) to 20 feet bgs. A mothball-like odor was detected at varying depths in borings ENV-1MW, ENV-3MW, ENV-4B, ENV-5MW, ENV-6B, ENV-7B, ENV-8MW, ENV-9MW, ENV-11B and ENV-12B. In addition, the following observations were made concerning apparent tar fragments and free product:

Test Boring	Observations
ENV-1MW	A sheen with a strong mothball-like odor was observed on the black, medium to coarse sand encountered from 15 to 17 feet bgs
ENV-3MW	An oily sheen with a strong mothball-like/petroleum-like odor was observed on the black, silty fine sand encountered from 17 to 20 feet bgs
ENV-4B	An apparent tar fragment with a mothball-like odor was observed in the black, silty fine sand fill encountered from approximately 2 to 2.9 feet bgs;
ENV-6B	The brick fill was observed to be oily with a petroleum-like odor from approximately 6 to 6.5 feet bgs
ENV-7B	A 3-inch tar-like fragment with a mothball-like odor was observed from approximately 9 to 9.5 feet bgs
ENV-8MW	A 4-inch thick apparent tar fragment with a mothball-like odor was observed from approximately 7.5 to 8 feet bgs
ENV-9MW	Apparent tar fragments with a mothball-like odor were observed from approximately 4.5 to 5 feet bgs and approximately 11.9 to 12.2 feet bgs
ENV-11B	The black to gray-black, silty fine sand was observed to have petroleum-like impacts with a mothball-like/petroleum-like odor from approximately 2.2 to 3.4 feet bgs
ENV-12B	A petroleum-like sheen with a strong petroleum-like/mothball-like odor was observed in the sleeve for the sample collected from 15 to 20 feet bgs
ENV-13B	A greenish sheen with a strong petroleum-like odor was observed in the sleeve for the sample collected from 15 to 20 feet bgs

At MW-1, Lessard observed fill composed predominantly of brick followed by varying amounts of glass, coal and sand. These observations suggest that this test boring/well was likely conducted within the footprint of the former gas holder known to have existed in this area, which may explain the anomalous groundwater level readings at this location. Groundwater elevations at MW-1 are consistently approximately 10 feet higher than in the remaining wells. Accordingly, the groundwater elevation readings for this location were omitted during subsequent groundwater elevation mapping.

Refusal (presumably on fill materials) was encountered at depths of 4 feet bgs in ENV-10B, 6.5 feet bgs in ENV-2B, 7 feet bgs in ENV-6B, 11 feet bgs in ENV-7B, and 17.5 feet bgs in ENV-3MW.

Bedrock was not encountered in any of the borings on Site. According to information provided on MassGIS (OLIVER), the bedrock in the vicinity of the Site is classified as calcgranofels in the NH-Maine Sequence.

The depth to the groundwater, based on groundwater elevation gauging events conducted from May 2015 to February 2016, ranges from approximately 12 to 16 feet bgs, with the exception of MW-1 as noted above. Based on the interpolated groundwater elevation contours for May 12, and October 30, 2015 (**Figures 5.1** and **5.2**, respectively), shallow overburden groundwater is inferred to flow towards the west to southwest towards the Little River.

6 NATURE AND EXTENT OF CONTAMINATION

This section provides a summary of analytical results from environmental media sampling completed as part of response actions. These results are then discussed to define the nature and extent of contamination at the Site as currently understood. In addition, forensic analysis of tar-like material and NAPL are presented to gain insight into the potential sources of contamination at the Site.

Figure 4 depicts the following relevant Site features and observations:

- Current extent of a temporary containment boom that has been installed in the Little River in conjunction with the ongoing IRA (see **Section 8.0**);
- Approximate locations of the sheens observed on the Little River;
- Approximate locations of a pipe emerging from the western retaining wall that was observed to be discharging a tar-like substance (presumably associated with the former MGP facility);
- LNAPL observed to be discharging to the Little River from the base of the retaining wall; and
- LNAPL thicknesses historically detected in Site monitoring wells in conjunction with the ongoing IRA.

6.1 2014 Lessard Environmental, Inc. Phase I/ II Environmental Site Assessment

According to the Lessard draft Phase I/II, a very strong "naphthalene" or mothball odor was observed during drilling activities in November 2014. Laboratory analysis of soil samples submitted from Lessard Boring B-1 and ground water samples collected from MW-1 and MW-2 detected concentrations of VPH and polynuclear aromatic hydrocarbons (PAHs) at concentrations above MCP Reportable Concentrations. Lessard indicated that:

> "The source of the VPH detected in the ground water samples from MW-1 is not clear and could be from the current USTs and/ or the past use of the Property. The source of the PAH compounds detected are most likely associated with the former use of the Property as a gas & light company and not from the USTs installed in 1977."

6.2 April 2015 Soil Sampling

Tables 5 and **6** summarize the soil quality data resulting from Ramboll Environ's soil sampling activities conducted in April 2015.

<u>EPH</u>

- No EPH were detected above analytical reporting limits (RLs) in soil sample ENV-10B-0.0'-2.5'. All other soil samples contained EPH at concentrations above analytical reporting limits.
- EPH was detected at concentrations below the Method 1 S-3 soil standards in soil samples ENV-1B-15.0'-17.5', ENV-2B-5.0'-6.0', ENV-5B-12.5'-15.0', and ENV-6B-6.0'-7.0'.
- EPH was detected at concentrations exceeding Method 1 S-3 soil standards in soil samples ENV-3B-12.5'-15.0', ENV-4B-2.5'-3.5', ENV-7B-10.0'-11.0', DUP [duplicate of ENV-7B-

10.0'-11.0'], ENV-8B-12.5'-15.0', ENV-9B-12.5'-15.0', ENV-11B-15.0'-17.5', ENV-12B-15.0'-17.5', and ENV-13B-17.5'-20.0'.

- The concentration of EPH fraction C11-22 Aromatics (adjusted) in soil sample ENV-13B-17.5'-20.0' (15,600 mg/kg) exceeded the 10,000 mg/kg MCP Upper Concentration Limit (UCL) in addition to the S-3 soil standard.

VPH

- VPH were detected at concentrations above analytical RLs in all soil samples collected.
- VPH were detected at concentrations below the Method 1 soil standards in soil samples ENV-1B-15.0'-17.5', ENV-2B-5.0'-6.0', ENV-6B-6.0'-7.0', and ENV-10B-0.0'-2.5'.
- VPH were detected at concentrations exceeding the Method 1 S-3 standards in soil samples ENV-3B-12.5'-15.0', ENV-4B-2.5'-3.5', ENV-5B-12.5'-15.0', ENV-7B-10.0'-11.0', DUP [duplicate of ENV-7B-10.0'-11.0'], ENV-8B-12.5'-15.0', ENV-9B-12.5'-15.0', ENV-11B-15.0'-17.5', ENV-12B-15.0'-17.5', and ENV-13B-17.5'-20.0'.
- None of the VPH concentrations detected in the soil samples exceeded UCLs.

6.3 Potential Presence of LNAPL

The soil analytical results were evaluated in light of the most recent MassDEP LNAPL guidance (MassDEP 2016) as a line of evidence indicating the potential presence of LNAPL and its potential mobility. The LNAPL guidance indicates that for most common LNAPLs, a concentration of OHM (e.g., TPH) in soil above about 100 mg/kg indicates the likely presence of LNAPL. In addition, concentrations of EPH/TPH in test borings and soil samples are an additional line of evidence supporting an evaluation of LNAPL mobility at a Disposal Site. The LNAPL guidance states that residual LNAPL concentrations in units of mg/kg (C_{res}), which is a function of LNAPL type and soil type, can be compared to traditional TPH data. The concept is that if existing TPH data exceeds C_{res}, potentially mobile/recoverable LNAPL could be present. C_{res} for fuel oils in coarse sand and gravel is estimated to be just under 10,000 mg/kg ranging up to approximately 50,000 mg/kg for silt to fine sands. In general, C_{res} is lower for lighter weight petroleum products and higher for heavy weight products similar to what has been observed at the Site. In addition C_{res} is generally higher for finer grained soils when compared to coarse grained soils. Although not conclusive, the following general conclusions are noted based on the total EPH concentrations detected in the test boring soil sample submitted for laboratory analysis:

- Total EPH concentrations between 100 and 10,000 mg/kg, indicating the potential presence of NAPL, were detected in soil samples ENV-1B-15.0'-17.5', ENV-2B-5.0'-6.0', ENV-4B-2.5'-3.5', ENV-6B-6.0'-7.0', and ENV-7B-10.0'-11.0'.
- Total EPH concentrations greater than 10,000 mg/kg, indicating the potential presence of mobile NAPL, were detected in soil samples ENV-3B-12.5'-15.0'; ENV-5B-12.5'-15.0', ENV-6B-6.0'-7.0', ENV-8B-12.5'-15.0'; ENV-9B-12.5'-15.0'; ENV-11B-15.0'-17.5'; ENV-12B-15.0'-17.5'; and ENV-13B-17.5'-20.0'.
- Total EPH concentrations were non-detect in soil sample ENV-10B-0.0'-2.5'.

6.4 March 2015 Car Wash Supply Well Sampling

No EPH or VPH were detected above analytical RLs in the samples collected from the car wash water supply well on March 16, 2015.

6.5 May 2015 Groundwater Sampling Results

Table 7 summarizes the groundwater quality data resulting from Ramboll Environ's groundwater sampling activities conducted in May 2015.

- No EPH or VPH were detected in any of the groundwater samples at concentrations exceeding Method 1 GW-3 standards.
- EPH and VPH were detected at concentrations below Method 1 GW-2 and GW-3 standards in the sample collected from upgradient well MW-3.
- EPH target analyte naphthalene was detected at concentrations exceeding Method 1 GW-2 standards in the samples collected from wells ENV-1MW, ENV-5MW, ENV-8MW, MW-1, and MW-2.
- Due to laboratory dilutions, many of the analytical RLs for other EPH target analytes exceeded Method 1 GW-3 standards.
- VPH were detected at concentrations exceeding Method 1 GW-2 standards in the samples collected from monitoring wells ENV-1MW, ENV-5MW, ENV-8MW, MW-1, and MW-2. VPH exceeding GW-2 standards included C9-C10 aromatics, C5-C8 aliphatics, C0-C12 aliphatics, and target analytes benzene and naphthalene.
- No EPH or VPH were detected at concentrations exceeding UCLs.
- Groundwater monitoring wells ENV-3MW and ENV-9MW had detectable levels of LNAPL and were not sampled during the May 2015 sampling event.

6.6 Forensic Analysis of LNAPL Materials

On May 18, 2015, Ramboll Environ collected a sample of a tar-like substance emanating from an old discharge pipe that exits the retaining wall along river bank (see **Figure 4**). The sample was collected directly from a tongue of tar-like material hanging from the end of the pipe (refer to IRA photologs in **Appendix M**). The sample, designated "Tar", was submitted to Alpha of Westborough, Massachusetts on June 10, 2015 for the following laboratory analyses to facilitate a forensic analysis of the substances:

- PAHs by EPA Method 8270D; and
- Saturated Hydrocarbons by EPA Method 8015D (Modified).

The laboratory report is provided in **Appendix K-4**. **Table 9** summarizes the laboratory analytical data for the tar-like substance collected on May 18, 2015. The following summarizes the results of the forensic analysis.

- The GC-FID chromatogram for the tar sample (Laboratory ID L1512919-01) is consistent with a coal tar material and is predominantly comprised of parent (non-alkylated) PAHs with naphthalene present in the highest concentration. The alkylated PAH analysis shows higher concentrations of the parent PAH compounds relative to the alkyl-substituted PAH

compounds in a pattern of decreasing concentration with increasing alkyl substitution for the naphthalenes, fluorenes and pyrenes reflecting a pyrogenic source. These results are consistent with results typically observed for manufactured gas plant operations. In addition, the diagnostic ratio of fluoranthene to pyrene (FL/PY = 0.69) is consistent with a tar that was generated in a carburetted water gas process historically used for manufacturing gas. A FL/PY ratio less than 1.0 is indicative of a carburetted water gas process; whereas, a ratio greater than 1.0 is consistent with a coal gasification process (Uhler et al, 2000; McCarthy et al., 2000).

On April 27, 2015, Ramboll Environ also collected a tar fragment from soil boring ENV-9B (Laboratory ID L1508968-15) from a depth of 10.0 – 12.5 feet bgs which was submitted to Alpha for analysis of alkylated PAHs and saturated hydrocarbons.

- Laboratory analysis of this sample was characterized by a similar profile in the GC-FID chromatogram and exhibited the same pattern of decreasing concentration with increasing alkyl substitution consistent with a pyrogenic source. With a FL/PY ratio of 0.57, this tar fragment is consistent with a material generated in a carburetted water gas process. (Uhler et al, 2000; McCarthy et al., 2000)

On May 18, 2015, Ramboll Environ collected a sample of LNAPL observed to be emanating from a space between several stones at the base of the retaining wall, designated LNAPL-RIVER (laboratory ID L1512929-02; see IRA Plan and Status Report Photologs in **Appendix M**). The sample was also submitted to Alpha for the following laboratory analyses to facilitate a forensic analysis.

- PIANO (Paraffins, Isoparaffins, Aromatics, Naphthenes and Olefins) by EPA Method 8260B;
- Alkylated PAHs by EPA Method 8270D; and
- Saturated Hydrocarbons by EPA Method 8015D (Modified).

The laboratory report is provided in **Appendix K-4**. **Table 9** also summarizes the laboratory analytical data for this NAPL sample.

- The GC-FID chromatogram revealed a weathered mid-distillate petroleum product with a symmetrical Unresolved Complex Mixture (UCM) baseline and no indication of any contribution from a gasoline-range product. No oxygenated fuel additives were detected in the sample. The PIANO analysis was dominated by aromatic compounds (alkylbenzenes and naphthalenes) and also contained concentrations of higher molecular weight (4, 5 and 6-ring) PAHs that would be inconsistent with a refined diesel or No. 2 fuel oil (Ouidjk, 2003). This LNAPL material may be related to the petroleum feedstock used in the carburetted water gas process or a gas purification by-product (e.g. scrubber oil or drip oil; U.S. EPA, 1988; EPRI, 2003).

6.7 LNAPL Observations

Table 10 summarizes the NAPL/Groundwater gauging data to date. During the May 2015 groundwater sampling event, LNAPL was detected in ENV-3MW and ENV-9MW at 0.02 feet and 0.03

feet, respectively. During the August 6, 2015 monitoring well gauging event, LNAPL was detected in ENV-3MW (0.22 feet) and ENV-9MW (0.19 feet), and ENV-8MW (0.04 feet); and a sheen was observed in ENV-5MW.

Following gauging, oil-sorbent socks were installed in these wells as a passive recovery measure. Monthly gauging and sorbent replacement has continued to be conducted as documented in the IRA Plan (Ramboll Environ 2015). During the October 30, 2015 gauging event, an LNAPL sheen was present in ENV-1MW. There have been no other LNAPL detections observed during the gauging events.

Based on the weights of the spent sorbent socks, it is estimated that approximately 0.33 gallons of LNAPL have been removed from wells ENV-1MW, ENV-3MW, ENV-5MW, ENV-8MW, and ENV-9MW since passive recovery measures were implemented on August 6, 2015.

6.8 Summary

Table 11 summarizes the maximum and minimum concentrations for the EPH and VPH detected in Site soil and groundwater. Based on the investigations conducted to date, impacts to subsurface media appear to extend throughout much of the disposal Site boundary. The following summarizes the vertical and horizontal extent of contamination as we currently understand it.

- **Soil (unsaturated and saturated) –** OHM contamination was observed to be widespread in soils across the Site, generally located beneath impervious surfaces below approximately 2 to 3 feet bgs to the maximum extent drilled at approximately 20 feet bgs. EPH and VPH concentrations exceeding Method 1 S-3 soil standards have been detected in the majority of soil samples. Furthermore, total EPH concentrations detected in Site soils were indicative the potential presence of NAPL and mobile NAPL (at ENV-3B, ENV-5B, ENV-6B, ENV-8B, ENV-9B, ENV-11B, ENV-12B, and ENV-13B).

- **Groundwater** – Groundwater is impacted by EPHs (naphthalene) and VPHs (C9-C10 aromatics, C5-C8 aliphatics, C9-C12 aliphatics, benzene, and naphthalene) above Method 1 GW-2 standards in wells ENV-1MW, ENV-5MW, ENV-8MW, MW-1, and MW-2. Groundwater monitoring wells ENV-3MW and ENV-9MW had detectable levels of LNAPL so were not sampled during the May 2015 sampling event, but groundwater at these locations is also presumed to be impacted by EPHs and VPHs.

- **LNAPL** - Groundwater monitoring wells ENV-3MW and ENV-9MW had detectable levels of LNAPL indicating micro-scale mobility (MassDEP 2016). Since that time, LNAPL has also been detected in well ENV-8MW (see **Figure 4**). Furthermore, LNAPL has been observed to be discharging to the Little River from the base of the retaining wall on the western perimeter of the Site.

7 MIGRATION PATHWAYS AND EXPOSURE POTENTIAL

The following describes known and potential contaminant migration pathways and exposure points.

7.1 Migration Pathways

OHM contamination present in the subsurface has the potential to migrate as LNAPL through the subsurface in abandoned piping and structures; through subsurface soils; and in groundwater (in the dissolved phase) under advective transport which is generally towards the west to southwest towards the Little River. As noted above, there is also the potential for OHM to migrate through the vadose zone under vapor phase transport. As noted in IRA Status Report No. 2, hydraulic cement was used to seal the pipe protruding from the west wall of the Site that had been observed to be discharging the tar-like material.

Once discharged to the Little River, OHM contamination has the potential to migrate downstream as LNAPL (currently being mitigated using temporary sorbent booms) and in the dissolved phase.

7.2 Exposure Potential

The Site is mostly paved or occupied by the car wash building and fuel storage and dispensing equipment with relatively smaller landscaped areas present along the western perimeter and in the southern area of the Site (see **Figure 3**). Therefore, OHM contamination present on the Site is generally located beneath impervious surfaces below approximately 2 to 3 feet bgs and to a lesser extent beneath landscaped areas beneath topsoil/mulch. As such, direct contact and ingestion exposures are not expected to be significant under normal operations. There is the potential for construction workers to be exposed to OHM in the event LNAPL, impacted soil, and/or groundwater is encountered during subsurface excavation or construction activities below approximately 2 to 3 feet bgs.

The Site is not located within a Current or Potential Drinking Water Source Area; therefore, the exposure potential associated with the consumption of groundwater is not considered to be significant. In addition, groundwater is generally located at depths ranging from 12 to 16 feet bgs except in the area of MW-1 where groundwater is located at approximately three to four feet bgs.

The vapor intrusion pathway has not yet been investigated (i.e. no soil gas or indoor air samples have been collected at the Site). As concentrations of EPH and VPH exceeding Method 1 GW-2 standards are widespread across the Site, the exposure potential associated with vapor intrusion into the car wash and/or gas station kiosk should be evaluated.

Persons using the Little River adjacent to the Site for recreational purposes as well as terrestrial and aquatic organisms present in the river could potentially be exposed to OHM as evidenced by the presence of a sheen on the river. While temporary containment booms are currently being used on the Little River to contain the sheen, free phase oil continues to discharge from the western retaining wall and river bed.

8 EVALUATION FOR IMMEDIATE RESPONSE ACTIONS

As noted in **Section 2**, RTN 3-32875 is associated with the 2-hour verbal notification made to MassDEP on May 12, 2015 due to the observance of a sheen on surface water (the Little River). As required by the MCP at 40.0420(7) to address the 2-hour reporting condition, an IRA Plan was submitted to the MassDEP on July 17, 2015 (Ramboll Environ 2015a). The IRAs conducted at the Site to date have been conducted in accordance with the IRA Plan and were documented in IRA Status Report No. 1 (dated September 11, 2015) and IRA Status Report No. 2 (dated March 11, 2016), prepared by Ramboll Environ. No additional IRAs beyond those detailed in the IRA Plan are judged to be necessary at this time.

A summary of the IRAs conducted and in place currently is provided below.

8.1 IRA Objectives

As documented in the IRA Plan, the objectives of the IRA activities are to:

1. Contain/mitigate the sheen and LNAPL emanating from the Site into the Little River and prevent them from travelling/migrating downstream in the Little River;
2. Monitor/mitigate the LNAPL that had been observed within groundwater monitoring wells ENV-3MW and ENV-9MW in May 2015;
3. Identify the tar-like material being discharged from the pipe adjacent to the Little River and attempt to identify the potential source of the material;
4. Determine whether a potential release from the current petroleum underground storage tanks (USTs) could be the source of the sheen observed in the river;
5. Determine whether the observed contamination in the subsurface of the Site could be contributing to the observed sheen; and,
6. Determine whether Site conditions are present that could represent an IH and/or SRM as defined in the MCP, associated with potential contamination in subsurface utilities at the Site[1].

8.2 IRA Activities

The following IRA activities were completed in order to meet the objectives noted above:

- Inspection and maintenance of the temporary sorbent booms has been completed. Ramboll Environ is continuing to assess their effectiveness at containing the release and preventing its migration downstream in the Little River. When the temporary boom has been observed to have been damaged or breached, it has been replaced, until a more permanent boom installation can be completed;
- Installed a semi-permanent containment boom system;
- Installed sorbent socks and conducted monthly groundwater and LNAPL gauging at on-Site monitoring wells where LNAPL has been observed; and
- Conducted laboratory analysis and an evaluation of the tar-like substance and LNAPL observed to be discharging to the Little River from the wall along the western perimeter of the Site.

[1] This objective, as directed by MassDEP, was to assess the potential for the occurrence of SRM associated with the existing, in-service subsurface storm water conveyances.

8.3 Status of Ongoing IRA Objectives

As documented in IRA Status Report No. 2, the following summarizes the status of the ongoing IRA objectives specified in the IRA Plan.

IRA	Status
Contain/mitigate the sheen and LNAPL emanating from the Site and prevent them from travelling/migrating downstream in the Little River	Ongoing
Monitor/mitigate the LNAPL observed within groundwater monitoring wells	Ongoing
Identify the tar-like material at the pipe that appears to discharge into the Little River and attempt to identify the potential source of the material	Complete
Determine whether a potential release from the current petroleum USTs on the Site could be the source of the sheen observed in the river	Complete
Determine whether the observed contamination in the subsurface of the Site could be contributing to the observed sheen	Additional data will be collected in conjunction with RTN 3-32792
Determine whether Site conditions are present that could represent an IH and/or SRM, as defined in the MCP, associated with potential contamination in subsurface utilities at the Site	No IH or SRM has been identified associated with the existing subsurface storm water conveyances (catch basins and piping) on Site.[2]

As noted in IRA Status Report No. 2, hydraulic cement was used to seal the pipe protruding from the west wall of the Site that had been observed to be discharging the tar-like material.

Future response actions will continue to be conducted in accordance with the IRA Plan until the conditions that warranted the IRA are no longer present.

[2] A Condition of SRM apparently does exist, however, based on the observed tar-like substance, apparently discharging to the Little River, as described previously herein. One pipe has been capped; however, other pipes observed emanating from the retaining wall could also represent conduits for SRM. No other Condition of SRM has been identified associated with subsurface storm water conveyances at the Site.

9 PHASE I CONCLUSIONS

The disposal Site is identified with MassDEP RTNs 3-32792 and 3-32875 due to the presence of impacted soil and groundwater exceeding MCP 120-day notification thresholds as well as a condition of SRM due to the observance of a sheen on surface water (the Little River) adjacent to the Site.

The analytical data and information collected to date indicate that the source of OHM contamination is likely related to the historical operation of the MGP facility. Information indicating that the Haffner gasoline station, associated USTs, transfer piping, or dispensers is a source of the contamination has not been identified. This conclusion is substantiated by the following:

- No information has been found to indicate there has been a reportable release from the USTs or ancillary equipment.
- OHM contamination indicative of MGP waste was observed to be widespread across the Site.
- Methyl tert-butyl ether (MTBE), a highly water soluble indicator of historical gasoline releases, was not detected above laboratory reporting limits in any of the soil or groundwater samples collected at the Site.
- Forensic analysis of a tar-like material found in the subsurface at the Site and a tar-like material observed to be discharging from a pipe protruding from the western retaining wall of the Site are consistent with coal tar generated using a carburetted water gas process.
- Forensic analysis of a LNAPL observed to be emanating from a space between several stones at the base of the retaining wall indicates it may be related to the petroleum feedstock used in the carburetted water gas process or a gas purification by-product (e.g. scrubber oil or drip oil).

An IRA Plan, dated July 17, 2015, was submitted to the MassDEP with the primary objective to contain/mitigate the sheen and LNAPL emanating from the Site into the Little River and prevent them from travelling/migrating downstream in the Little River[3]. Temporary sorbent booms installed in conjunction with the IRAs have been partially successful at containing the sheens observed to be discharging to the Little River; however, it is apparent that a more robust semi-permanent containment boom system will need to be installed to allow for ongoing effective containment of the sheen with rising river stage during the forthcoming period when additional investigations and comprehensive response actions can be completed with the ultimate goal of achieving a Permanent Solution at the Site.

Based on the information presented in this Phase I Report, the following outcome is provided in accordance with 310 CMR 40.0486 (1):

> *Comprehensive Response Actions are necessary at the disposal Site. Tier Classification of the Site pursuant to the provisions of 310 CMR 40.0500 shall be undertaken by RPs, PRPs, or Other Persons, if necessary, and prior to the initiation of Comprehensive Response Actions.*

[3] This objective, as directed by MassDEP, was to assess the potential for the occurrence of SRM associated with the existing, in-service subsurface storm water conveyances.

9.1 Preliminary Conceptual Site Model

A preliminary Conceptual Site Model (CSM) has been developed based on the current understanding of Site conditions, relevant geology and hydrogeology, the nature and extent of contamination, the fate and transport potential of the contaminants identified, and the exposure potential posed to human and ecological receptors. The CSM will be updated as additional information is obtained.

Historical releases of OHM associated with the former use of the Site as an MGP facility operated by the Haverhill Gas Works from approximately 1886 to 1970 appear to be the likely source of OHM present in the subsurface at the Site. There are no known reportable releases from the Haffner gasoline station facility.

OHM contamination associated with the former MGP facility is widespread in Site soils (generally located beneath impervious surfaces below approximately 2 to 3 feet bgs to the maximum extent drilled) and is characterized by EPH and VPH compounds in addition to NAPL and apparent tar. Groundwater at the Site (generally encountered from approximately 12 to 16 feet bgs,) is impacted with EPH/VPH at concentrations exceeding Method 1 GW-2 standards. Although no exceedances of Method 1 GW-3 standards were identified, LNAPL has been detected in three site wells and is currently discharging to the Little River along the western perimeter of the Site.

OHM contamination present in the subsurface has the potential to migrate as LNAPL or in the dissolved phase through the subsurface in abandoned piping and structures; through subsurface soils; and in groundwater (in the dissolved phase) under advective transport which is generally towards the west to southwest towards the Little River. As noted above, there is also the potential for OHM to migrate and through the vadose zone under vapor phase transport.

Direct contact and ingestion exposures associated with Site soils are not expected to be significant under normal operations. There is the potential for construction workers to be exposed to OHM in the event LNAPL and impacted soil and/or groundwater is encountered during subsurface excavation or construction activities below approximately 2 to 3 feet bgs. As concentrations of EPH and VPH exceeding Method 1 GW-2 standards are widespread across the Site, there is potential for the vapor intrusion pathway to exist into the car wash and/or gas station kiosk.

Persons using the Little River adjacent to the Site for recreational purposes as well as terrestrial and aquatic organisms present in the river could potentially be exposed to OHM as evidenced by the presence of a sheen on the river. Once discharged to the Little River, OHM contamination has the potential to migrate downstream as LNAPL (currently being mitigated using temporary sorbent booms) and in the dissolved phase.

10 TIER CLASSIFICATION

Pursuant to 310 CMR 40.0500, Ramboll Environ has completed a Tier Classification based on assessment and remedial actions previously conducted at the Site and the results of ongoing IRA activities.

10.1 Tier I Criteria (310 CMR 40.0520(2))

The Site meets the Tier I classification requirements set forth in 310 CMR 40.0520 (2)(c) because one or more remedial actions are required as part of the IRA. As evidenced by the ongoing IRA, it continues to be necessary to maintain temporary sorbent booms in the Little River to contain the sheen and NAPL emanating from the base of the retaining wall along the western perimeter of the Site which constitutes a SRM condition in accordance with 310 CMR 40.0313 (4) (a) (i.e., releases that have resulted in the discharge of separate-phase oil and/or separate-phase hazardous material to surface waters, buildings, or underground utilities or conduits).

The Site does not satisfy conditions in 310 CMR 40.0520 (2) (a), (b), or (d). That is, the Site is not located within a Zone II or Interim Wellhead Protection Area or within 500 feet of a private water supply well; an IH has not been identified; and a Critical Exposure Pathway has not been identified.

10.2 Public Notification

Pursuant to 310 CMR 40.1400 through 40.1406, public notification letters will be sent to the Chief Municipal Officer and the Board of Health identifying the availability of the Phase I ISI and Tier Classification to the general public. A legal notice, containing the same information will also be published in a local newspaper and published within seven days of the submittal of this report.

Copies of MassDEP BWSC forms BWSC-107 (Tier Classification Submittal Form), BWSC-107B (Tier Classification Compliance History), and BWSC-108 (Phase I Completion Statement) are provided in **Appendix N**. Copies of the public notification letters and the published legal notice for the Site are provided in **Appendix O**.

11 PHASE II SCOPE OF WORK

As a permanent solution cannot be achieved at this time, the following section presents the conceptual Phase II scope of work to further define the nature and extent of OHM contamination on the Site and evaluate the associated risks to human health, safety, public welfare, and the environment.

11.1 General Approach

In accordance with the 310 CMR 40.0830, a Phase II CSA is required to be submitted to the MassDEP within three years of the submittal date of the Phase I ISI Report documenting whether contamination at the Site poses a significant risk to human health, public welfare, safety, and the environment. The Phase II CSA must collect, develop and evaluate sufficient information to support conclusions and opinions regarding:

(a) The source, nature, extent, and potential impacts of releases of OHM;
(b) The risk of harm posed by the disposal Site to health, safety, public welfare and the environment; and
(c) The need to conduct remedial actions at the disposal Site.

The conceptual Phase II Scope of Work presented below provides:

(a) The general scope and nature of investigative and sampling programs that will be undertaken to characterize the source, extent, and migration pathways of OHM, and the risk of harm posed to health, safety, public welfare or the environment, based upon the initial CSM developed in the Phase I ISI;
(b) The name and license number of the LSP engaged or employed by the person conducting the Comprehensive Response Action; and
(c) The projected schedule for implementation of the Phase II - CSA.

Eric S. Wood, PHg, PG, LSP No. 7262 of Ramboll Environ is the LSP of Record on behalf of Haffner for this Site.

11.2 Phase II CSA Scope of Work

It is anticipated that the Scope of Work for the Phase II CSAs will include the following:

- *Preparation of a Site-specific Health & Safety Plan;*

- *Subsurface Investigations* - Up to 10 soil borings, a subset of which will be completed as monitoring wells, will be installed to further define the extent of residually-impacted soil and groundwater in areas not previously investigated including upgradient, within, and downgradient of the documented OHM impacts to further define the nature and three-dimensional extent of contamination.
    - Sampling of soil and groundwater will be conducted. Samples will be submitted for EPH/ VPH by MassDEP Methods. It is anticipated that a minimum of four (4) quarterly groundwater sampling rounds will be necessary to assess temporal groundwater quality variations.

- The location and elevation of the newly installed wells will be surveyed.
- All newly installed wells will be gauged for the presence of free phase oil and groundwater elevations.

Soil and groundwater samples collected during this work will be used to determine the need and preliminary scope of future comprehensive response actions.

- *LNAPL Assessment* – An assessment of the nature and extent of LNAPL impacts at the Site will be conducted in accordance with the recently published MassDEP LNAPL guidance. The assessment will include supplemental LNAPL gauging, laboratory analysis, and potential LNAPL recoverability testing to facilitate the formulation of an LNAPL CSM. It is anticipated that a minimum of 12 monthly LNAPL gauging events will be necessary to assess temporal LNAPL variations.
- *Vapor Intrusion Assessment* – Based on the widespread exceedances of MCP GW-2 groundwater standards and the shallow depth to groundwater (< 15 feet bgs), the potential for VI into on-site structures is a concern at the Site. To address this concern, a VI investigation will be conducted that will include soil vapor sampling, indoor air sampling, and laboratory analysis from beneath and within the gas station kiosk and car wash buildings. The VI investigation will be conducted in accordance with the MassDEP Interim Final Vapor Intrusion Guidance (WSC#-11-435), dated December 2011, revised February 22, 2013. The results will be compared to the Residential Sub-Slab Soil Gas Screening Levels and Commercial/Industrial Threshold Values (TVc) listed in the MassDEP Interim Final Vapor Intrusion Guidance to determine whether the VI pathway is complete and whether mitigation measures are warranted. Multiple sampling rounds will likely be needed to completely assess the potential VI pathway.
- *Sediment and Surface Water Investigations* - Investigation of stream channel sediments and surface water will be performed. Sediment samples shall be analyzed for EPH fractions and PAH target analytes via MassDEP Methods. If sediment impacts are found, surface water samples may be collected to evaluate the potential for dissolution of sediment-bound contaminants.
- *Human Health Risk Characterization* – A Method 3 Risk Characterization (RC) will be conducted.
- *Environmental Screening* – A Method 3, Stage I Environmental Screening (ES) will be completed and the need for a quantitative Stage II Environmental Risk Characterization will be evaluated.

11.3 Phase II CSA Schedule

The conceptual schedule for the Phase II CSA investigation is presented below.

Task	Anticipated Completion Date
Test Boring and Monitoring Well Installation	November 2016 (additional mobilizations as needed)
Groundwater Sampling (4 rounds)	November 2016 February, May & August 2017 (additional sampling rounds as needed)
LNAPL Gauging and Testing	November 2016 – November 2017
Sediment Investigation	August – October 2017
Stage I ES	December 2017 – March 2018
Method 3 Human Health RC	March - June 2018
Phase II CSA Report	March 2019

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FIGURES

SCALE 1:24000

0 0.5 1 Kilometers

0 1/2 1 Miles

2000 0 2000 4000 Feet

Source: U.S. Geological Survey 7.5 minute (topographic) quadrangle; Haverhill, Massachusetts.

C:\PROJECTS\HAVERHILL MA\SLM HAVERHILL MA.DWG

RAMBOLL ENVIRON

DRAFTED BY: GMILES

DATE: 1/28/2015

Site Location Map

Haffner's Gasoline Station

284 Winter Street, Haverhill, Massachusetts

Figure

1

PROJECT: 08-36060A

FIGURE 2

MassDEP - Bureau of Waste Site Cleanup

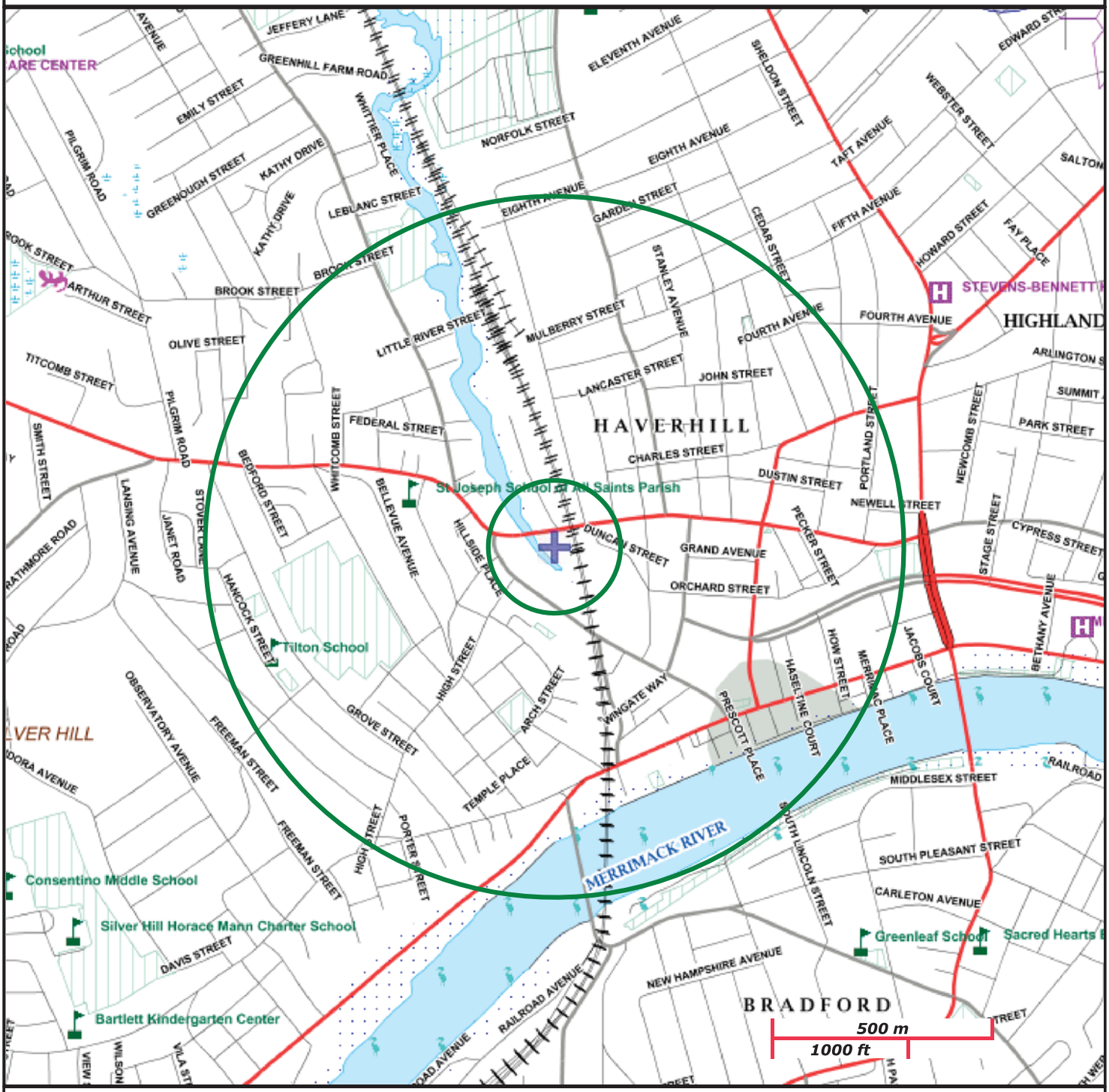
Phase 1 Site Assessment Map: 500 feet & 0.5 Mile Radii

Site Information:
HAFFNER REALTY TRUST
284 WINTER ST HAVERHILL, MA

NAD83 UTM Meters:
4738185mN , 329220mE (Zone: 19)
February 25, 2016

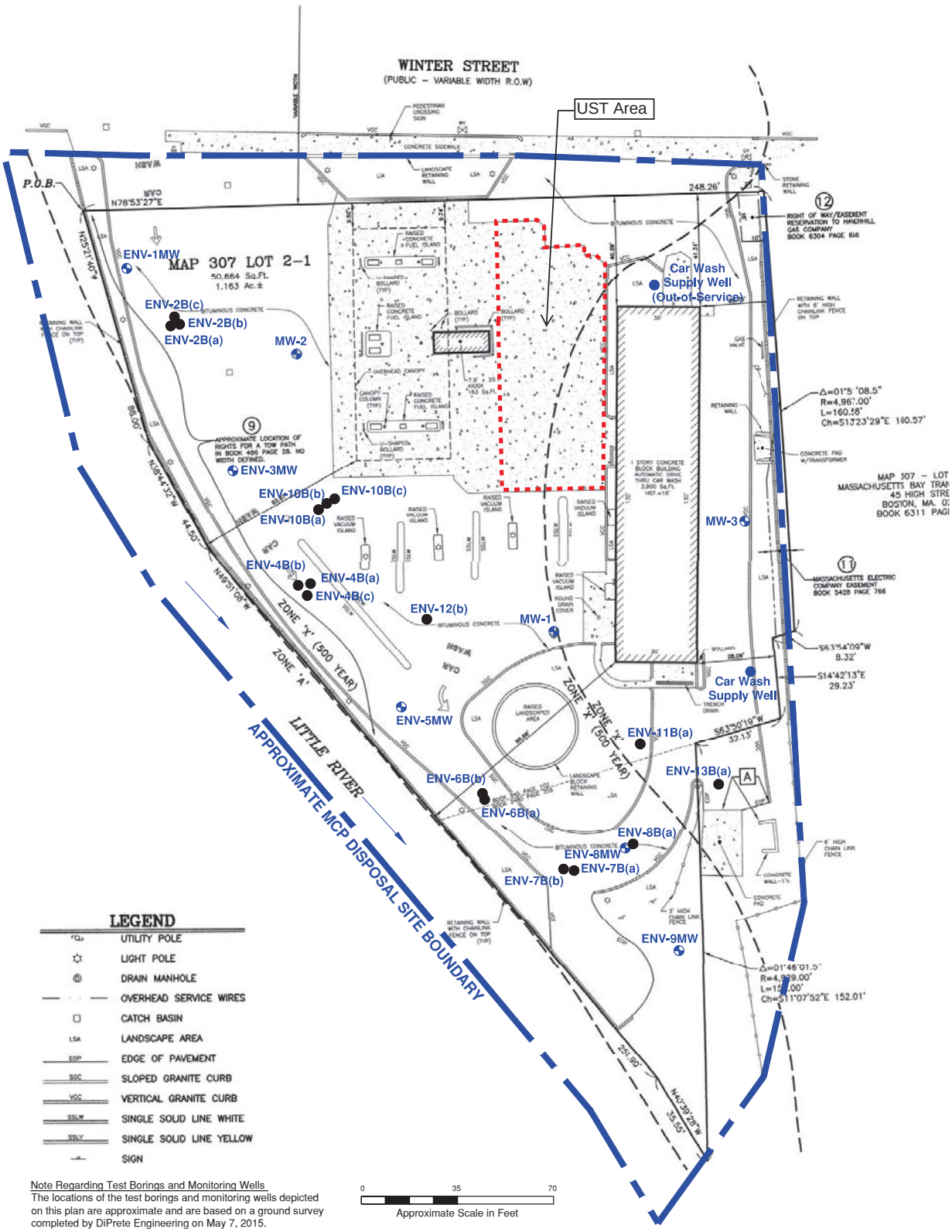
The information shown is the best available at the date of printing. However, it may be incomplete. The responsible party and LSP are ultimately responsible for ascertaining the true conditions surrounding the site. Metadata for data layers shown on this map can be found at: http://www.mass.gov/mgis/.

MassDEP
Commonwealth of Massachusetts
Department of Environmental Protection



Roads: Limited Access, Divided, Other Hwy, Major Road, Minor Road, Track, Trail
Boundaries: Town, County, DEP Region; Train; Powerline; Pipeline; Aqueduct
Basins: Major, PWS; Streams: Perennial, Intermittent, Man Made Shore, Dam
Aquifers: Medium Yield, High Yield, EPA Sole Source
Non Potential Drinking Water Source Area: Medium, High (Yield)
PWS Protection Areas: Zone II, IWPA, Zone A
Hydrography: Open Water, PWS Reservoir, Tidal Flat
Wetlands: Freshwater, Saltwater, Cranberry Bog
FEMA 100yr Floodplain; Protected Open Space; ACEC
Est. Rare Wetland Wildlife Hab; Vernal Pool: Cert., Potential
Solid Waste Landfill; PWS: Com.GW,SW, Emerg., Non-Com.

http://maps.massgis.state.ma.us/images/dep/mcp/mcp.htm



Note Regarding Test Borings and Monitoring Wells
The locations of the test borings and monitoring wells depicted on this plan are approximate and are based on a ground survey completed by DiPrete Engineering on May 7, 2015.

EXPLANATION
MW-1 Test boring/monitoring well completed by Lessard Environmental, Inc.
ENV-8MW Test boring/monitoring well completed by Ramboll Environ
● Soil test boring completed by Ramboll Environ

Source: ALTA/ ACSM Land Title Survey prepared by MHF Design Consultants, Inc. dated January 30, 2015 and stamped for approval on February 12, 2015.

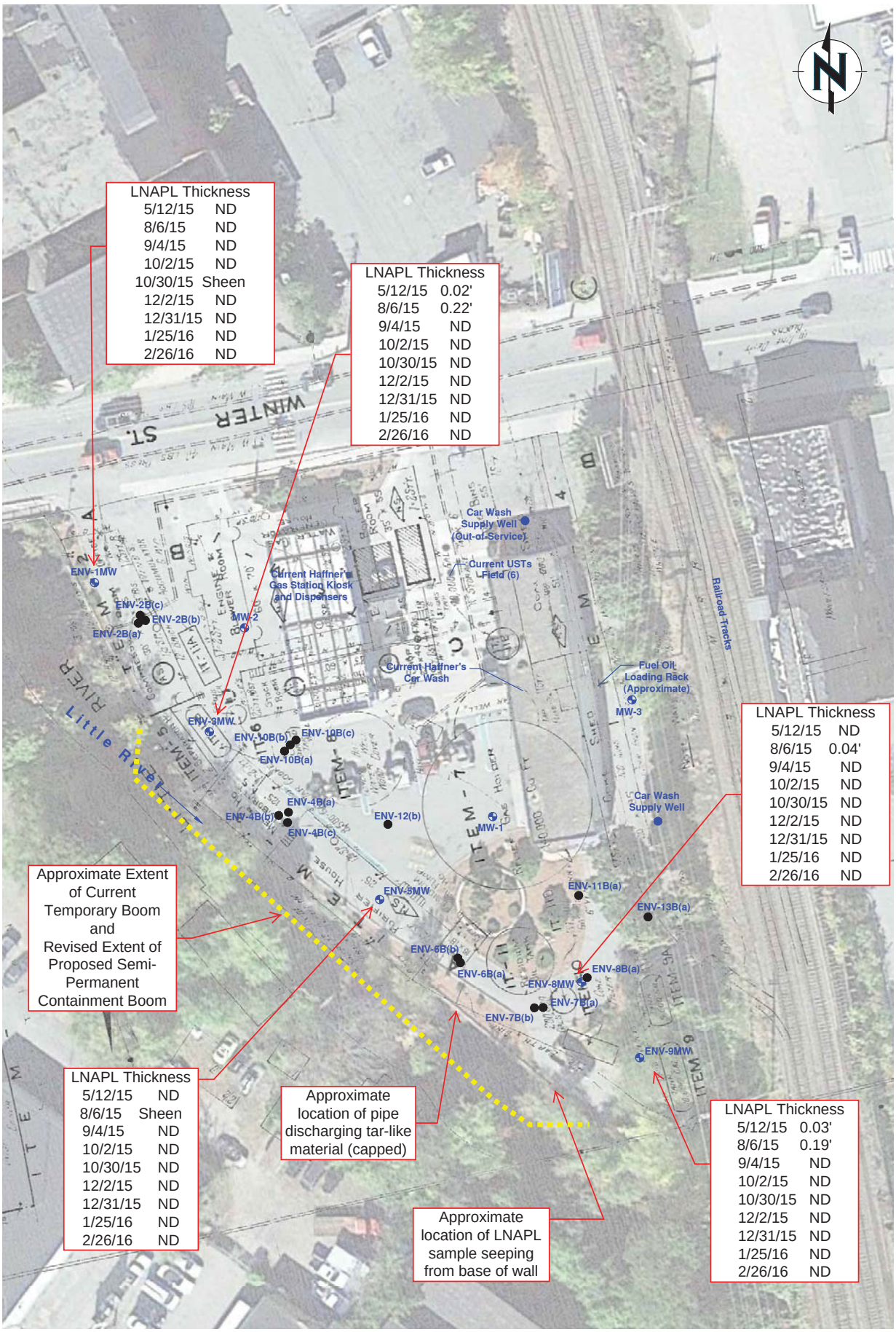
RAMBOLL ENVIRON

DRAFTED BY: \GMILES | DATE: 3/21/2016

Site Layout
Haffner Realty Trust
284 Winter Street, Haverhill, Massachusetts

Figure
3

C:\PROJECTS\HAVERHILL MA\SITE LAYOUT HAVERHILL MA4.DWG



ENVIRON

DRAFTED BY: \GMILES

DATE: 8/7/2015

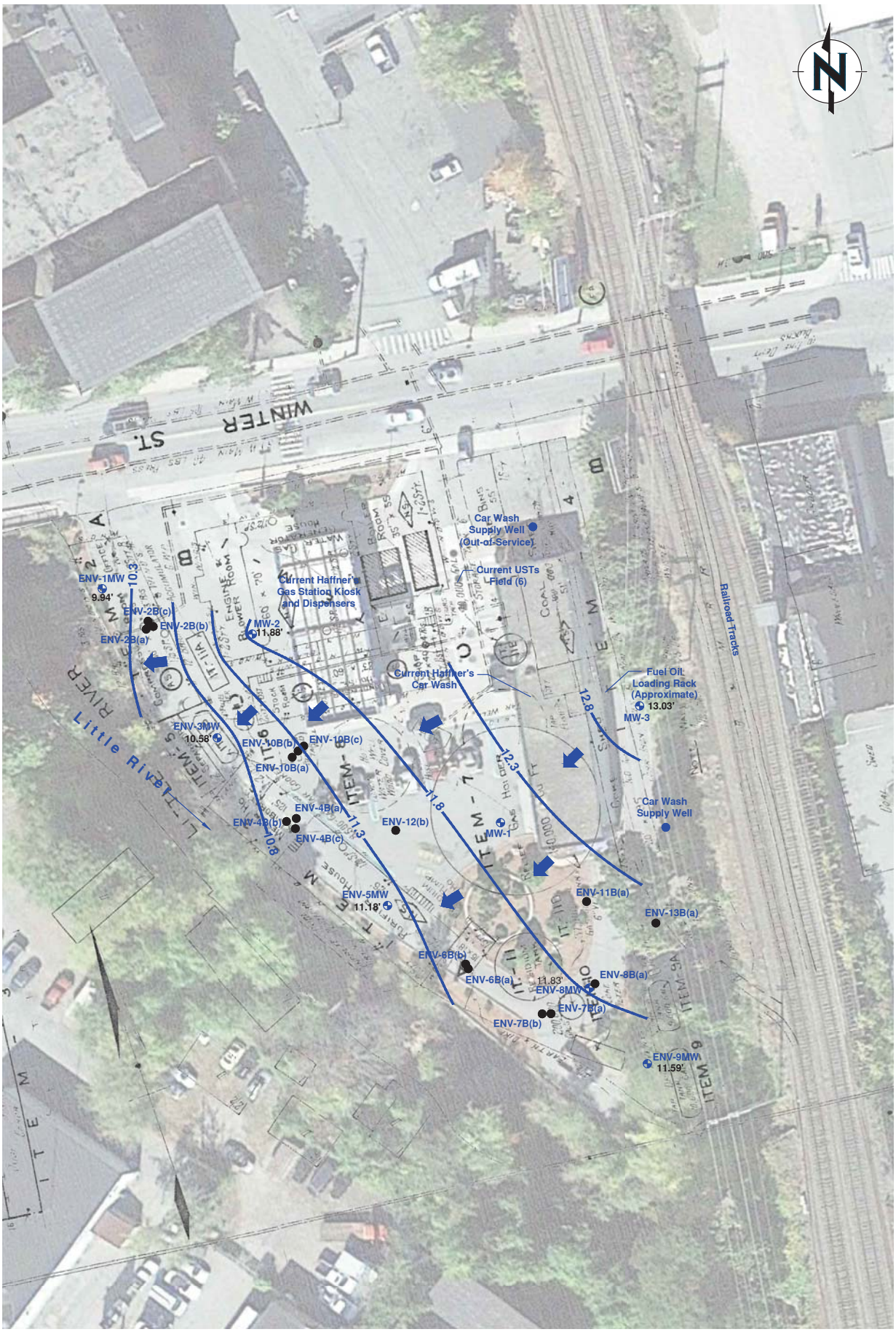
Site Layout with Historical MGP Site Plan Overlay

Haffner's Gasoline Station

284 Winter Street, Haverhill, Massachusetts

Figure **4**

C:\PROJECTS\HAVERHILL MA\SITE LAYOUT HAVERHILL MA3.DWG



EXPLANATION

Approximate monitoring well/soil boring location

10.41' Groundwater elevation measured on May 12, 2015

Aerial Photograph Source: © Google 2014; dated October 2014.

0 40 80

Approximate Scale in Feet

Note Regarding Test Borings and Monitoring Wells

The locations of the test borings and monitoring wells depicted on this plan are approximate and are based on a ground survey completed by DiPrete Engineering on May 7, 2015.

RAMBOLL ENVIRON

DRAFTED BY: \GMILES

DATE: 3/16/2016

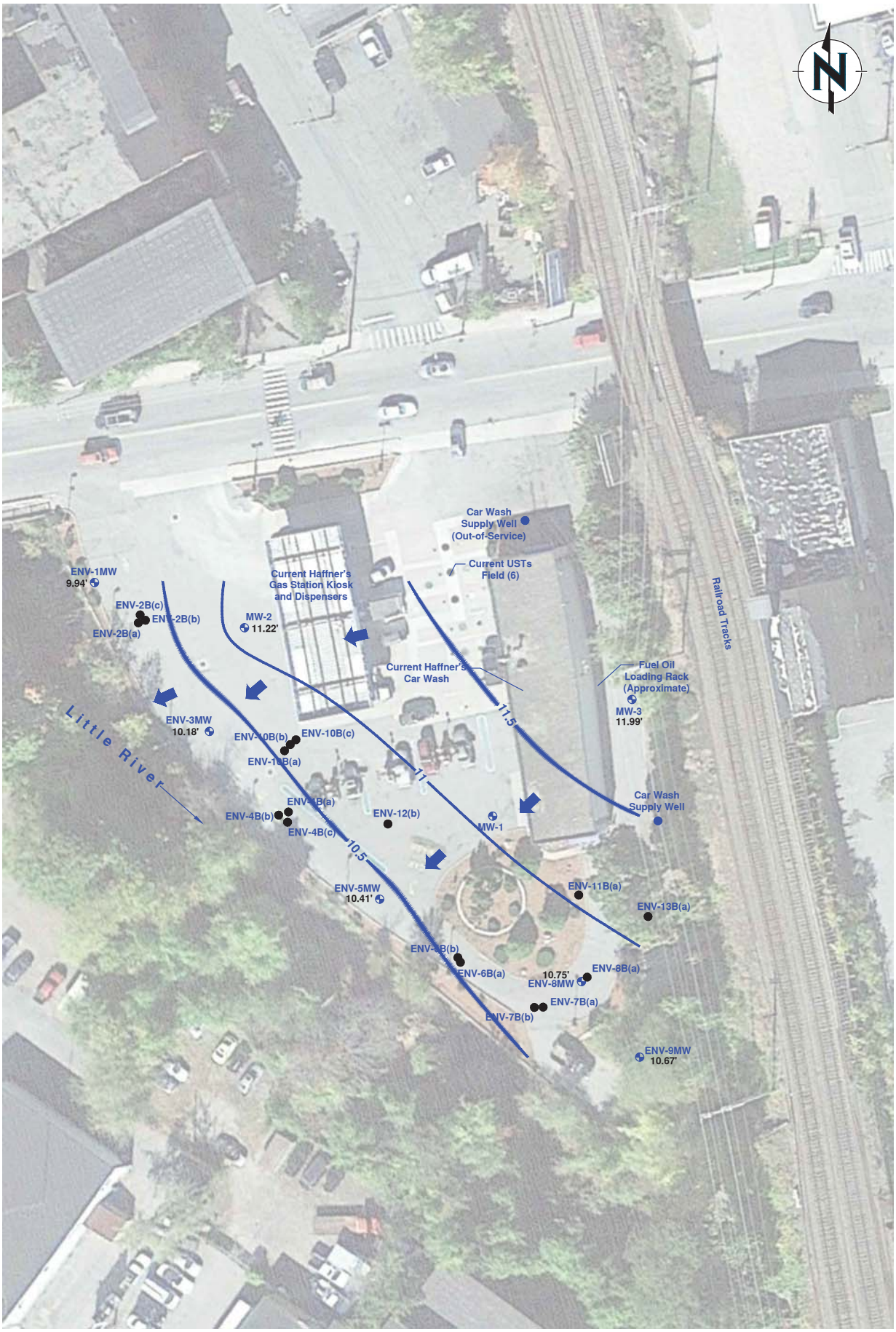
Overburden Groundwater Elevation Contours May 12, 2015

Haffner's Gasoline Station

284 Winter Street, Haverhill, Massachusetts

Figure **5.1**

C:\PROJECTS\HAVERHILL MA\GW CONTOURS.DWG



EXPLANATION

Approximate monitoring well/soil boring location

10.41' Groundwater elevation measured on October 30, 2015

Aerial Photograph Source: © Google 2014; dated October 2014.

0 40 80

Approximate Scale in Feet

Note Regarding Test Borings and Monitoring Wells

The locations of the test borings and monitoring wells depicted on this plan are approximate and are based on a ground survey completed by DiPrete Engineering on May 7, 2015.

RAMBOLL ENVIRON

DRAFTED BY: \GMILES

DATE: 3/16/2016

Overburden Groundwater Elevation Contours October 30, 2015

Haffner's Gasoline Station

284 Winter Street, Haverhill, Massachusetts

Figure **5.2**

C:\PROJECTS\HAVERHILL MA\GW CONTOURS 2.DWG

TABLES

TABLE 5
SOIL QUALITY DATA
EPH/VPH
April 2015

Haffner Realty Trust
284 Winter Street, Haverhill, Massachusetts
Ramboll Environ Project No. 08-36060C

LOCATION SAMPLING DATE LAB SAMPLE ID	MCP Standards			ENV-1B-15.0'-17.5' 4/28/2015 L1518191-08		ENV-2B-5.0'-6-5' 4/28/2015 L1518191-09		ENV-3B-12.5'-15.0' 4/28/2015 L1518191-10		ENV-4B-2.5'-3.5' 4/28/2015 L1508968-11		ENV-5B-12.5'-15.0' 4/27/2015 L1518191-01		ENV-6B-6.0'-7.0' 4/27/2015 L1518191-02		ENV-7B-10.0'-11.0' 4/27/2015 L1518191-03		DUP 4/27/2015 L1518191-04		ENV-8B-12.5'-15.0' 4/27/2015 L1518191-06	
	S3/G2-14	S3/G3-14	MA-UCLS-14		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual
Extractable Petroleum Hydrocarbons (mg/kg)																					
C9-C18 Aliphatics	5,000	5,000	20,000	68.7		275		**12,600**		309		4,800		3,090		1,390		1,240		**6,750**	
C19-C36 Aliphatics	5,000	5,000	20,000	51.0		113		1,990		644		860		1,440		757		721		861	
C11-C22 Aromatics	~		~	161		498		12,500		5,610		4,420		2,400		3,700		3,610		5,610	
C11-C22 Aromatics, Adjusted	5,000	5,000	10,000	106		462		**9,150**		4,590		3,910		2,290		3,100		3,020		**5,200**	
Naphthalene	20	3,000	10,000	-		0.802	U	-		**293**		-		1.51	U	**109**		**112**		-	
2-Methylnaphthalene	80	500	5,000	-		0.802	U	-		11.8		-		7.49		**86.5**		**86.2**		-	
Acenaphthylene	600	10	10,000	-		2.20		-		**19.4**		-		1.51	U	**25.1**		**21.4**		-	
Acenaphthene	5,000	5,000	10,000	-		1.86		-		21.9		-		2.77		11.2		10.7		-	
Fluorene	5,000	5,000	10,000	-		1.25		-		40.9		-		2.26		21.1		20.2		-	
Phenanthrene	3,000	3,000	10,000	-		7.22		-		162		-		27.3		91.1		92.3		-	
Anthracene	5,000	5,000	10,000	-		2.46		-		65.6		-		6.38		22.0		22.5		-	
Fluoranthene	5,000	5,000	10,000	-		2.80		-		77.2		-		12.9		38.8		38.0		-	
Pyrene	5,000	5,000	10,000	-		6.32		-		110		-		19.2		68.2		66.6		-	
Benzo(a)anthracene	300	300	3,000	-		2.16		-		32.0		-		8.07		21.7		20.6		-	
Chrysene	3,000	3,000	10,000	-		2.42		-		50.0		-		7.72		27.0		26.0		-	
Benzo(b)fluoranthene	300	300	3,000	-		1.24		-		30.6		-		4.19		14.2		13.2		-	
Benzo(k)fluoranthene	3,000	3,000	10,000	-		1.22		-		21.7		-		5.15		17.3		16.5		-	
Benzo(a)pyrene	30	30	300	-		2.62		-		**33.5**		-		7.27		24.5		24.5		-	
Indeno(1,2,3-cd)Pyrene	300	300	3,000	-		1.15		-		20.1		-		3.48		11.0		10.9		-	
Dibenzo(a,h)anthracene	30	30	300	-		0.802	U	-		11.0	U	-		1.51	U	3.63	U	2.94	U	-	
Benzo(ghi)perylene	5,000	5,000	10,000	-		1.27		-		21.6		-		3.41		12.2		12.1		-	
Solids, Total (%)				86.4		81.7		82.5		89		84.3		83.8		5,852		86.1		82.8	
Volatile Petroleum Hydrocarbons (mg/kg)																					
C5-C8 Aliphatics	~		~	81.9	U	4.89	U	942	U	902	U	390		59.6		109	U	89.6	U	304	
C9-C12 Aliphatics	~		~	442		127		5,500		902	U	4,250		361		463		268		4,000	
C9-C10 Aromatics	500	500	5,000	341		113		**3,530**		902	U	**2,220**		248		**522**		245		**2,360**	
C5-C8 Aliphatics, Adjusted	500	500	5,000	81.9	U	4.89	U	942	U	902	U	351		58.6		109	U	89.6	U	265	
C9-C12 Aliphatics, Adjusted	5,000	5,000	20,000	81.9	U	8.77		1,470		902	U	1,660		105		109	U	89.6	U	1,400	
Benzene	400	1,000	10,000	-		0.280		37.7	U	36.1	U	-		1.04		4.37	U	3.58	U	-	
Toluene	2,000	3,000	10,000	-		0.196	U	37.7	U	36.1	U	-		0.406	U	4.37	U	3.58	U	-	
Ethylbenzene	1,000	3,000	10,000	-		4.22		268		36.1	U	-		6.26		7.16		5.40		-	
p/m-Xylene	100	3,000	10,000	-		0.526		94.3		36.1	U	-		0.88		4.37	U	3.58	U	-	
o-Xylene	100	3,000	10,000	-		0.591		**134**		36.1	U	-		1.31		4.37	U	3.58	U	-	
Methyl tert butyl ether	100	500	5,000	-		0.098	U	18.8	U	18.0	U	-		0.203	U	2.18	U	1.79	U	-	
Naphthalene	20	3,000	10,000	-		3.20		**2,910**		**1,240**		-		10.7		**244**		**175**		-	

Notes:
1. 75 U indicates analyte not detected above laboratory reporting limit of 75 concentration units
2. MCP Soil Cleanup Standards taken from 2014 revised MCP at 310 CMR 40.0975(6)(c): TABLE 4.
3. MCP Upper Concentration Limits (UCLs) taken from 2014 revised MCP at 310 CMR 40.0996(6): TABLE 6.
4. Regulatory exceedances:
Analytical Reporting limit exceeded Method 1 S-3 Soil Standard
Exceeds Method 1 S-3 Soil Standard
Exceeds Method 3 UCL
5. "~" indicates no standard available for analyte.
6. * The laboratory noted that for sample ENV-10B-0.0'-2.5' the non-hydrocarbon VPH compounds may have been included in the summation of the C5-C8 Aliphatics range; therefore, this result is considered biased high and the noted result is considered an estimated value.
7. Quality Assurance/Quality Control Samples include:
DUP = Field Duplicate
Trip Blank
8. "-" indicates not analyzed.

TABLE 5
SOIL QUALITY DATA
EPH/VPH
April 2015

Haffner Realty Trust
284 Winter Street, Haverhill, Massachusetts
Ramboll Environ Project No. 08-36060C

	MCP Standards			ENV-9B-12.5'-15.0'		ENV-10B-0.0'-2.5'		ENV-11B-15.0'-17.5'		ENV-12B-15.0'-17.5'		ENV-13B-17.5'-20.0'		TRIP BLANK	
LOCATION															
SAMPLING DATE				4/27/2015		4/28/2015		4/27/2015		4/28/2015		4/28/2015		4/22/2015	
LAB SAMPLE ID				L1518191-05		L1518191-12		L1518191-07		L1518191-13		L1518191-14		L1518191-16	
	S3/G2-14	S3/G3-14	MA-UCLS-14		Qual		Qual		Qual		Qual		Qual		Qual
Extractable Petroleum Hydrocarbons (mg/kg)															
C9-C18 Aliphatics	5,000	5,000	20,000	**8,040**		6.66	U	**6,240**		**13,300**		904		-	-
C19-C36 Aliphatics	5,000	5,000	20,000	830		6.66	U	877		2,020		701		-	-
C11-C22 Aromatics	~		~	6,060		6.66	U	3,820		7,010		18,200		-	-
C11-C22 Aromatics, Adjusted	5,000	5,000	10,000	**5,140**		6.66	U	3,320		**5,270**		**15,600**		-	-
Naphthalene	20	3,000	10,000	**362**		0.333	U	-		-		**783**		-	-
2-Methylnaphthalene	80	500	5,000	**234**		0.333	U	-		-		**714**		-	-
Acenaphthylene	600	10	10,000	**10.3**		0.333	U	-		-		**43.2**		-	-
Acenaphthene	5,000	5,000	10,000	32.6		0.333	U	-		-		93.8		-	-
Fluorene	5,000	5,000	10,000	37.7		0.333	U	-		-		116		-	-
Phenanthrene	3,000	3,000	10,000	96.9		0.333	U	-		-		373		-	-
Anthracene	5,000	5,000	10,000	33.7		0.333	U	-		-		57.8		-	-
Fluoranthene	5,000	5,000	10,000	26.8		0.333	U	-		-		93.5		-	-
Pyrene	5,000	5,000	10,000	46.0		0.333	U	-		-		133		-	-
Benzo(a)anthracene	300	300	3,000	13.9		0.333	U	-		-		43.3		-	-
Chrysene	3,000	3,000	10,000	15.6		0.333	U	-		-		55.1		-	-
Benzo(b)fluoranthene	300	300	3,000	9.57	U	0.333	U	-		-		31.9	U	-	-
Benzo(k)fluoranthene	3,000	3,000	10,000	9.57	U	0.333	U	-		-		31.9	U	-	-
Benzo(a)pyrene	30	30	300	11.9		0.333	U	-		-		**39.2**		-	-
Indeno(1,2,3-cd)Pyrene	300	300	3,000	9.57	U	0.333	U	-		-		31.9	U	-	-
Dibenzo(a,h)anthracene	30	30	300	9.57	U	0.333	U	-		-		31.9	U	-	-
Benzo(ghi)perylene	5,000	5,000	10,000	9.57	U	0.333	U	-		-		31.9	U	-	-
Solids, Total (%)				84.8		96.8		82.4		89		83.4		-	-
Volatile Petroleum Hydrocarbons (mg/kg)															
C5-C8 Aliphatics	~		~	345	U	3.63*	J	850		559		506	U	2.67	U
C9-C12 Aliphatics	~		~	3,850		2.32	U	5,010		3,560		4,230		2.67	U
C9-C10 Aromatics	500	500	5,000	**648**		2.32	U	**2,840**		**2,090**		**1,450**		2.67	U
C5-C8 Aliphatics, Adjusted	500	500	5,000	345	U	3.63*	J	466		384		506	U	2.67	U
C9-C12 Aliphatics, Adjusted	5,000	5,000	20,000	2,730		2.32	U	1,220		1,230		2,280		2.67	U
Benzene	400	1,000	10,000	-		0.093	U	-		-		20.3	U	0.107	U
Toluene	2,000	3,000	10,000	-		0.093	U	-		-		20.3	U	0.107	U
Ethylbenzene	1,000	3,000	10,000	-		0.093	U	-		-		160		0.107	U
p/m-Xylene	100	3,000	10,000	-		0.093	U	-		-		**227**		0.107	U
o-Xylene	100	3,000	10,000	-		0.093	U	-		-		**105**		0.107	U
Methyl tert butyl ether	100	500	5,000	-		0.046	U	-		-		10.1	U	0.053	U
Naphthalene	20	3,000	10,000	-		0.185	U	-		-		**1,940**		0.213	U

Notes:
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4. Regulatory exceedances:
   Analytical Reporting limit exceeded Method 1 S-3 Soil Standard
   Exceeds Method 1 S-3 Soil Standard
   Exceeds Method 3 UCL
5. "~" indicates no standard available for analyte.
6. * The laboratory noted that for sample ENV-10B-0.0'-2.5' the non-hydrocarbon VPH compounds may have been included in the summation of the C5 C8 Aliphatics range; therefore, this result is considered biased high and the noted result is considered an estimated value.
7. Quality Assurance/Quality Control Samples include:
   DUP = Field Duplicate
   Trip Blank
8. "-" indicates not analyzed.

Table 6
SOIL QUALITY DATA
Alkylated PAHs, PIANO, Saturated Hydrocarbons
April 2015

Haffner Realty Trust
284 Winter Street, Haverhill, Massachusetts
ENVIRON Project No. 08-36060C

			LOCATION	ENV-1B-15.0'-17.5'		ENV-3B-12.5'-15.0'		ENV-5B-12.5'-15.0'		ENV-8B-12.5'-15.0'		ENV-9B-12.5'-15.0'		ENV-9B-TAR FRAGMENT (10.0'-12.5')		ENV-11B-15.0'-17.5'		ENV-12B-15.0'-17.5'	
			SAMPLING DATE	4/28/2015		4/28/2015		4/27/2015		4/27/2015		4/27/2015		4/27/2015		4/27/2015		4/28/2015	
			LAB SAMPLE ID	L1508968-08		L1508968-10		L1508968-01		L1508968-06		L1508968-05		L1508968-15		L1508968-07		L1508968-13	
	S3/G2-14	S3/G3-14	MA-UCLS-14	L1508968-08 R1	Qual		Qual	L1508968-01 R1	Qual	L1508968-06 R1	Qual	L1508968-05 R1	Qual	L1508968-15 R1	Qual	L1508968-07 R1	Qual	L1508968-13 R1	Qual
Polycyclic Armoatic Hydrocarbons (mg/kg)																			
Naphthalene	20	3,000	10,000	**62.2**		**3,180**		**311**		**426**		-		**3,690**		**199**		**981**	
C1-Naphthalenes	~	~	~	32.8		1,580		304		324		-		1,680		142		1,090	
C2-Naphthalenes	~	~	~	7.56		869		356		446		-		910		154		896	
C3-Naphthalenes	~	~	~	2.57		429		257		308		-		583		114		480	
C4-Naphthalenes	~	~	~	0.804		182		134		166		-		183		51.3		190	
2-Methylnaphthalene	80	500	5,000	28.4		**1,560**		**300**		**322**		-		**1,680**		**144**		**958**	
1-Methylnaphthalene	~	~	~	24		955		186		194		-		995		82.8		648	
Biphenyl	6	5,000	10,000	1.16		**83.6**		**21.8**		**28**		-		**484**		**9.24**		**74.5**	
2,6-Dimethylnaphthalene	~	~	~	4.13		430		187		232		-		458		82.3		441	
Dibenzofuran	~	~	~	0.451		30.1		11.4		12.8		-		138		5.28		46.2	
Acenaphthylene	600	10	10,000	0.674		**65.9**		8.56		9.81		-		**977**		**13.7**		**136**	
Acenaphthene	5,000	5,000	10,000	1.1		163		26.9		22		-		327		6.13		98.6	
2,3,5-Trimethylnaphthalene	~	~	~	0.375		61.6		30.2		29.9		-		73.3		13.1		70.4	
Fluorene	5,000	5,000	10,000	1.54		125		30		20.9		-		527		12.8		180	
C1-Fluorenes	~	~	~	1.27		93.2		42.2		46.1		-		455		15.2		134	
C2-Fluorenes	~	~	~	1.06		82.1		43.3		55.9		-		255		16		104	
C3-Fluorenes	~	~	~	0.408		40.1		22.4		28.3		-		119		7.95		45.7	
Dibenzothiophene	~	~	~	0.33		48.1		18.1		13.8		-		372		6.95		79.2	
C1-Dibenzothiophenes BS	~	~	~	0.359		62.7		27.7		26.3		-		337		10.6		103	
C2-Dibenzothiophenes	~	~	~	0.249		49.1		20.7		20.8		-		203		7.63		69.8	
C3-Dibenzothiophenes	~	~	~	0.116		23.8		8.97		9.21		-		93.4		3.29		28.8	
C4-Dibenzothiophenes	~	~	~	0.0573		8.36		2.9		3.17		-		31.2		1.05		8.31	
Phenanthrene	3,000	3,000	10,000	5.76		446		91.5		68.1		-		2,480		42.6		628	
C1-Phenanthrenes/Anthracenes	~	~	~	4.48		309		105		91.2		-		2,110		39.5		465	
C2-Phenanthrenes/Anthr BS	~	~	~	1.9		154		56.7		56.9		-		729		21.3		199	
C3-Phenanthrenes/Anthracenes	~	~	~	0.546		52.9		18.4		19.8		-		200		6.99		59.5	
C4-Phenanthrenes/Anthracenes	~	~	~	0.135		14.8		4.84		5.31		-		45.8		1.84		13.7	
Retene	~	~	~	0.005	U	0.178	U	0.0451	U	0.0848	U	-		0.503	U	0.0292	U	0.155	U
Anthracene	5,000	5,000	10,000	1.76		94		17.2		12.3		-		786		8.66		134	
Fluoranthene	5,000	5,000	10,000	2.6		116		17.8		9.35		-		770		7.57		157	
Pyrene	5,000	5,000	10,000	3.2		141		28.8		16		-		1,360		12.6		201	
C1-Fluoranthenes/Pyrenes	~	~	~	2.32		133		28.3		18.2		-		1,250		11.5		194	
C2-Fluoranthenes/Pyrenes	~	~	~	0.956		56.9		11.8		10.4		-		363		4.57		74.7	
C3-Fluoranthenes/Pyrenes	~	~	~	0.411		23.7		4.21		5.05		-		126		1.78		29.2	
C4-Fluoranthenes/Pyrenes	~	~	~	0.185		9.4		1.51		2.26		-		43.6		0.658		10.9	
Benz(a)anthracene	300	300	3,000	1.58		63.5		9.69		4.52		-		**631**		4.77		84.7	
Chrysene/Triphenylene	~	~	~	1.62		64.4		9.89		5		-		549		4.62		83.5	
C1-Chrysenes	~	~	~	1.19		64.9		11.4		7.58		-		444		4.92		82.2	
C2-Chrysenes BS	~	~	~	0.549		34.9		5.72		5.34		-		198		2.48		39.5	
C3-Chrysenes	~	~	~	0.367		17.8		2.48		3.08		-		89.7		1.14		18	
C4-Chrysenes	~	~	~	0.155		6.11		0.756		1.3		-		29.6		0.35		6.41	
Benzo(b)fluoranthene	300	300	3,000	1.25		35.2		3.43		1.85		-		240		2.01		41.2	
Benzo(j)+(k)fluoranthene	~	~	~	1.71		40.8		4.54		2.24		-		347		2.43		47.3	
Benzo(e)pyrene	~	~	~	1.18		32.4		3.85		2.17		-		300		2.25		39.5	
Benzo(a)pyrene	30	30	300	1.75		**56.8**		7.21		3.62		-		**621**		4.34		**67.8**	
Perylene	~	~	~	1.16		13.5		1.12		0.556		-		85.1		0.651		14.5	
Indeno(1,2,3-cd)pyrene	300	300	3,000	1.29		30.1		2.47		1.47		-		231		1.67		29.9	
Dibenz(a,h)+(a,c)anthracene	~	~	~	0.397		9.22		0.923		0.49		-		67.9		0.545		10.6	
Benzo(g,h,i)perylene	5,000	5,000	10,000	1.22		31		2.69		1.79		-		268		1.95		30.5	

Table 6
SOIL QUALITY DATA
Alkylated PAHs, PIANO, Saturated Hydrocarbons
April 2015

Haffner Realty Trust
284 Winter Street, Haverhill, Massachusetts
ENVIRON Project No. 08-36060C

			LOCATION	ENV-1B-15.0'-17.5'		ENV-3B-12.5'-15.0'		ENV-5B-12.5'-15.0'		ENV-8B-12.5'-15.0'		ENV-9B-12.5'-15.0'		ENV-9B-TAR FRAGMENT (10.0'-12.5')		ENV-11B-15.0'-17.5'		ENV-12B-15.0'-17.5'	
			SAMPLING DATE	4/28/2015		4/28/2015		4/27/2015		4/27/2015		4/27/2015		4/27/2015		4/27/2015		4/28/2015	
			LAB SAMPLE ID	L1508968-08		L1508968-10		L1508968-01		L1508968-06		L1508968-05		L1508968-15		L1508968-07		L1508968-13	
	S3/G2-14	S3/G3-14	MA-UCLS-14	L1508968-08 R1	Qual		Qual	L1508968-01 R1	Qual	L1508968-06 R1	Qual	L1508968-05 R1	Qual	L1508968-15 R1	Qual	L1508968-07 R1	Qual	L1508968-13 R1	Qual
PIANO Volatile Organics by EPA 5035 High (mg/kg)																			
3-Methyl-1-butene	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
Isopentane	~	~	~	1.13		9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	13.4	
1-Pentene	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
2-Methyl-1-Butene	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
Pentane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	3.55	
trans-2-Pentene	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
Isoprene	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
cis-2-Pentene	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
Tertiary Butanol	~	~	~	10.2	U	118	U	23.7	U	21.2	U	34.5	U	-		45.4	U	31.9	U
2,2-Dimethylbutane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
4-Methyl-1-pentene	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
Cyclopentane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
2,3-Dimethylbutane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
2-Methylpentane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
Methyl tert butyl ether	100	500	5,000	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
3-Methylpentane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
1-Hexene	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
n-Hexane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
Isopropyl Ether	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
trans-2-Hexene	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
2-Methyl-2-pentene	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
cis-2-Hexene	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
Ethyl-Tert-Butyl-Ether	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
2,2-Dimethylpentane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
Methylcyclopentane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
2,4-Dimethylpentane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
2,2,3-Trimethylbutane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
1,2-Dichloroethane	0.1	300	9,000	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
3,3-Dimethylpentane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
Cyclohexane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
2-Methylhexane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
Benzene	400	1,000	10,000	0.819	U	30.6		33.6		34.2		105		-		41.6		78	
2,3-Dimethylpentane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
Thiophene	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
1,1-Dimethylcyclopentane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
3-Methylhexane	~	~	~	0.819	U	9.42	U	2.17		1.69	U	2.76	U	-		3.64	U	2.55	U
Tertiary-Amyl Methyl Ether	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
1,3-Dimethylcyclopentane (cis)	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
3-Ethylpentane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
1,3-DMCP (trans)/2-Methyl-1-hexene	~	~	~	1.64	U	18.8	U	3.79	U	3.39	U	5.52	U	-		7.27	U	5.1	U
1-Heptene/1,2-DMCP (trans)	~	~	~	1.64	U	18.8	U	3.79	U	3.39	U	5.52	U	-		7.27	U	5.1	U
Isooctane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
trans-3-Heptene	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
Heptane	~	~	~	0.819	U	9.42	U	3.91		2.4		2.94		-		4.4		4.5	
cis-3-Heptene	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
trans-2-Heptene	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
cis-2-Heptene	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
2,2-Dimethylhexane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
Methylcyclohexane	~	~	~	0.819	U	9.42	U	13.7		9.52		9.3		-		14.2		13.6	
2,5-Dimethylhexane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
2,4-Dimethylhexane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
Ethylcyclopentane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
2,2,3-Trimethylpentane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U

Table 6
SOIL QUALITY DATA
Alkylated PAHs, PIANO, Saturated Hydrocarbons
April 2015

Haffner Realty Trust
284 Winter Street, Haverhill, Massachusetts
ENVIRON Project No. 08-36060C

LOCATION SAMPLING DATE LAB SAMPLE ID				ENV-1B-15.0'-17.5' 4/28/2015 L1508968-08 L1508968-08 R1		ENV-3B-12.5'-15.0' 4/28/2015 L1508968-10		ENV-5B-12.5'-15.0' 4/27/2015 L1508968-01 L1508968-01 R1		ENV-8B-12.5'-15.0' 4/27/2015 L1508968-06 L1508968-06 R1		ENV-9B-12.5'-15.0' 4/27/2015 L1508968-05 L1508968-05 R1		ENV-9B-TAR FRAGMENT (10.0'-12.5') 4/27/2015 L1508968-15 L1508968-15 R1		ENV-11B-15.0'-17.5' 4/27/2015 L1508968-07 L1508968-07 R1		ENV-12B-15.0'-17.5' 4/28/2015 L1508968-13 L1508968-13 R1	
	S3/G2-14	S3/G3-14	MA-UCLS-14		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual
1,2,3-Trimethylcyclopentane (ctc)	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
2,3,4-Trimethylpentane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
2,3,3-Trimethylpentane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
2,3-Dimethylhexane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
2-Methylheptane	~	~	~	0.819	U	9.42	U	4.22		3.48		3.08		-		4.49		3.74	
4-Methylheptane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
3-Methylheptane	~	~	~	0.819	U	9.42	U	4.01		3.19		3.15		-		4.57		3.38	
3-Ethylhexane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
Toluene	2,000	3,000	10,000	0.819	U	9.42	U	2.71		1.69	U	4.03		-		306		91.2	
2-Methylthiophene	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
1,4-Dimethylcyclohexane (trans)	~	~	~	0.819	U	9.42	U	4.52		3.22		3.56		-		4.1		4.31	
3-Methylthiophene	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
1-Octene	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
Octane	~	~	~	0.819	U	9.42	U	7.28		2.03		6.73		-		13		10.9	
1,2-Dimethylcyclohexane (trans)	~	~	~	0.819	U	9.42	U	6.21		4.64		4.4		-		5.86		5.08	
1,2-Dibromoethane	0.1	40	400	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
1,2,3-TMCP (ccc)/2-Octene (trans)	~	~	~	1.64	U	18.8	U	3.79	U	3.39	U	5.52	U	-		7.27	U	5.1	U
cis-2-Octene	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
Isopropylcyclopentane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
1,2-Dimethylcyclohexane (cis)	~	~	~	0.819	U	9.42	U	2.22		1.69	U	2.76	U	-		3.64	U	2.55	U
2,5-Dimethylheptane	~	~	~	0.819	U	9.42	U	2.96		2.58		2.76	U	-		3.64	U	2.55	U
3,5-Dimethylheptane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
3,3-Dimethylheptane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
1,1,4-Trimethylcyclohexane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
2,3-Dimethylheptane	~	~	~	0.819	U	9.42	U	4.81		3.89		3.47		-		4.15		3.28	
3,4-Dimethylheptane	~	~	~	0.819	U	9.42	U	2.45		2.07		2.76	U	-		3.64	U	2.55	U
4-Methyloctane	~	~	~	0.819	U	9.42	U	4.99		3.83		4.02		-		4.49		3.04	
2-Methyloctane	~	~	~	0.819	U	9.42	U	5.42		4.81		4.58		-		5.3		4.94	
Ethylbenzene	1,000	3,000	10,000	20		346		170		104		238		-		316		65.5	
2-Ethylthiophene	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
3-Methyloctane	~	~	~	0.819	U	9.42	U	7.33		6.28		6.07		-		6.9		5.57	
3,3-Diethylpentane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
p/m-Xylene	100	3,000	10,000	17.6		**115**		89		68.6		**194**		-		**403**		92.4	
1-Nonene	~	~	~	2.05	U	23.6	U	4.74	U	4.24	U	6.9	U	-		9.09	U	6.38	U
trans-3-Nonene	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
cis-3-Nonene	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
Nonane (C9)	~	~	~	0.819	U	9.42	U	12.7		1.69	U	12.9		-		38.2		30.6	
Styrene	4	2,000	10,000	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
o-Xylene	100	3,000	10,000	8.2		**162**		52.6		31.4		85.6		-		**161**		50.2	
2-Nonene	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
Isopropylcyclohexane	~	~	~	0.819	U	9.42	U	5.99		5.17		4.88		-		4.88		5.04	
Isopropylbenzene	~	~	~	7.24		52.9		9.25		5.37		16.8		-		18		8.36	
3,3-Dimethyloctane	~	~	~	0.819	U	9.42	U	1.9	U	2.34		2.76	U	-		3.64	U	2.55	U
n-Propylbenzene	~	~	~	4.65		22.7		8.67		5.96		11.1		-		12.4		9.24	
2-Methylnonane	~	~	~	0.819	U	9.42	U	8.83		7.13		10.4		-		9.27		8.1	
3-Methylnonane	~	~	~	0.819	U	9.42	U	9.37		9.03		9.79		-		8.42		7.94	
1-Methyl-3-Ethylbenzene	~	~	~	23.4		23		58		38.6		121		-		116		48.6	
1-Methyl-4-Ethylbenzene	~	~	~	17.2		122		23.5		19.5		55		-		55.3		29.9	
1,3,5-Trimethylbenzene	~	~	~	9.33		79.1		34.2		28		48		-		46.7		35.9	
1-Decene	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
Isobutylcyclohexane	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
1-Methyl-2-Ethylbenzene	~	~	~	7.02		66.4		14.8		12.6		21.5		-		18		15.1	
Decane (C10)	~	~	~	1.1		12.7		23.4		1.69	U	19.7		-		63.5		56.5	
tert-Butylbenzene	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
1,2,4-Trimethylbenzene	~	~	~	28.8		363		98.8		66.8		128		-		139		111	
Isobutylbenzene	~	~	~	0.819	U	9.42	U	3.34		3.3		4.17		-		3.64	U	3.34	

Table 6
SOIL QUALITY DATA
Alkylated PAHs, PIANO, Saturated Hydrocarbons
April 2015

Haffner Realty Trust
284 Winter Street, Haverhill, Massachusetts
ENVIRON Project No. 08-36060C

LOCATION SAMPLING DATE LAB SAMPLE ID				ENV-1B-15.0'-17.5' 4/28/2015 L1508968-08 L1508968-08 R1		ENV-3B-12.5'-15.0' 4/28/2015 L1508968-10		ENV-5B-12.5'-15.0' 4/27/2015 L1508968-01 L1508968-01 R1		ENV-8B-12.5'-15.0' 4/27/2015 L1508968-06 L1508968-06 R1		ENV-9B-12.5'-15.0' 4/27/2015 L1508968-05 L1508968-05 R1		ENV-9B-TAR FRAGMENT (10.0'-12.5') 4/27/2015 L1508968-15 L1508968-15 R1		ENV-11B-15.0'-17.5' 4/27/2015 L1508968-07 L1508968-07 R1		ENV-12B-15.0'-17.5' 4/28/2015 L1508968-13 L1508968-13 R1	
	S3/G2-14	S3/G3-14	MA-UCLS-14		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual
sec-Butylbenzene	~	~	~	0.819	U	9.42	U	4.14		3.6		4.94		-		3.64	U	4.12	
1-Methyl-3-Isopropylbenzene	~	~	~	6.41		31.7		10.2		8.87		16.4		-		11.1		10.5	
1-Methyl-4-Isopropylbenzene	~	~	~	3.63		27.1		7.04		6.36		10.1		-		6.82		7.9	
1,2,3-Trimethylbenzene	~	~	~	7.07		135		38.5		30.4		50.6		-		43.2		44.8	
1-Methyl-2-Isopropylbenzene	~	~	~	0.819	U	9.42	U	1.9	U	1.85		2.76	U	-		3.64	U	2.55	U
Indane	~	~	~	28		764		134		83.8		264		-		68.4		93.9	
1,3-Diethylbenzene	~	~	~	14.2		60.2		12.9		9.88		20.7		-		12.7		12.1	
1-Methyl-3-N-Propylbenzene	~	~	~	2.72		18.8		20.1		17.6		21.5		-		16		19.8	
Indene	~	~	~	1.63		11.5		11.9		3.14		11.3		-		217		76.9	
1-Methyl-4-N-Propylbenzene	~	~	~	3.56		23.2		11.1		8.64		11.8		-		9.06		11.1	
n-Butylbenzene	~	~	~	0.819	U	17.2		8.67		6.2		9.02		-		7.53		8.99	
1,2-Dimethyl-4-Ethylbenzene	~	~	~	13		79.4		27.2		22.1		29.5		-		23.5		27.8	
1,2-Diethylbenzene	~	~	~	0.819	U	9.42	U	2.84		2.06		2.76	U	-		3.64	U	2.67	
1-Methyl-2-N-Propylbenzene	~	~	~	1.33		13.8		9.78		7.97		9.9		-		7.1		9.96	
1,4-Dimethyl-2-Ethylbenzene	~	~	~	5.72		40.4		17.7		12.9		17.3		-		14.9		18.8	
Undecane	~	~	~	2.05		10.6		29.8		1.69	U	22.6		-		88.7		81.3	
1,3-Dimethyl-4-Ethylbenzene	~	~	~	4.75		47.7		20.9		15.6		21.2		-		16.6		22	
1,3-Dimethyl-5-Ethylbenzene	~	~	~	16.6		118		32.3		21.6		38.5		-		27.5		36.2	
1,3-Dimethyl-2-Ethylbenzene	~	~	~	0.819	U	9.74		5.47		7.13		6.22		-		4.17		6.44	
1,2-Dimethyl-3-Ethylbenzene	~	~	~	1.62		20.6		10.9		9.04		11.3		-		8.21		11.4	
1,2,4,5-Tetramethylbenzene	~	~	~	5.45		57.2		22.9		16.2		22.2		-		19		26.1	
1,2,3,5-Tetramethylbenzene	~	~	~	10.3		99.4		40.8		27		40.9		-		35.5		43.1	
N-Pentylbenzene	~	~	~	0.819	U	9.42	U	5.33		3.36		4.19		-		4.48		5.44	
1,2,3,4-Tetramethylbenzene	~	~	~	5.29		68.4		27.6		20		25.5		-		21.9		37.1	
1,3-Dimethyl-5-tert-Butylbenzene	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
Dodecane (C12)	~	~	~	1.89		9.42	U	22.2		1.69	U	15.3		-		84.9		69.4	
1,3,5-Triethylbenzene	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
Naphthalene	20	3,000	10,000	**107**		**2,800**		**384**		**295**		**716**		-		**488**		**656**	
Benzothiophene	~	~	~	1.38		81.8		10.5		3.77		16.3		-		12.9		23.1	
1,2,4-Triethylbenzene	~	~	~	0.819	U	9.42	U	1.9	U	1.69	U	2.76	U	-		3.64	U	2.55	U
Hexylbenzene	~	~	~	0.819	U	10.1		7.64		5.68		6.93		-		6.38		6.46	
MMT	~	~	~	2.05	U	23.6	U	4.74	U	4.24	U	6.9	U	-		9.09	U	6.38	U
Tridecane	~	~	~	2.05	U	23.6	U	18.3		4.24	U	6.94		-		91.4		67.6	
2-Methylnaphthalene	80	500	5,000	49.4		**1,230**		**353**		**218**		**399**		-		**348**		**614**	
1-Methylnaphthalene	~	~	~	44.3		765		218		143		255		-		200		424	
Tetradecane (C14)	~	~	~	2.05	U	23.6	U	16.7		4.24	U	6.9	U	-		88.5		55.3	
Pentadecane	~	~	~	2.05	U	23.6	U	20.7		4.24	U	12.5		-		93.5		54.4	
Petroleum Hydrocarbon Identification by GC-FID (mg/kg)																			
Nonane (C9)	~	~	~	-		11.8	U	-		-		-		-		-		-	
Decane (C10)	~	~	~	-		31.5		-		-		-		-		-		-	
Dodecane (C12)	~	~	~	-		91.5		-		-		-		-		-		-	
Hexadecane (C16)	~	~	~	-		79.5		-		-		-		-		-		-	
Octadecane (C18)	~	~	~	-		360		-		-		-		-		-		-	
Nonadecane (C19)	~	~	~	-		13.9		-		-		-		-		-		-	
Eicosane (C20)	~	~	~	-		13.2		-		-		-		-		-		-	
Docosane (C22)	~	~	~	-		11.8	U	-		-		-		-		-		-	
Hexacosane (C26)	~	~	~	-		11.8	U	-		-		-		-		-		-	
Total Petroleum Hydrocarbons (C9-C44)	~	~	~	883		47,200		26,400		30,100		-		93,700		10,500		46,100	

Notes:
1. 75 U indicates analyte not detected above laboratory reporting limit of 75 concentration units
2. MCP Soil Cleanup Standards taken from 2014 revised MCP at 310 CMR 40.0975(6)(a): TABLE 4.
3. MCP Upper Concentration Limits (UCLs) taken from 2014 revised MCP at 310 CMR 40.0996(6): TABLE 6
4. Regulatory exceedences:
   - Analytical Reporting limit exceeded Method 1 S-3 Soil Standard
   - **Exceeds Method 1 S-3 Soil Standard**
   - **Exceeds Method 3 UCL**
5. "~" indicates no standard available for analyte.
6. "-" indicates not analzyed.

Table 7
Groundwater Quality Data
EPH/VPH
May 2015

Haffner Realty Trust
284 Winter Street, Haverhill, Massachusetts
Ramboll Environ Project No. 08-36060C

	MCP Standards			LOCATION																			
				SAMPLING DATE																			
				LAB SAMPLE ID																			
	GW-2-14	GW-3-14	UCL-14	ENV-1MW-20150512 5/12/2015 L1510372-04	Qual	ENV-5MW-20150512 5/12/2015 L1510372-02 L1510372-02	Qual	ENV-5MW-20150512 5/12/2015 L1510372-02 L1510372-02 R1	Qual	DUP-20150512 5/12/2015 L1510372-03	Qual	ENV-8MW-20150512 5/12/2015 L1510372-01	Qual	MW-1-20150512 5/12/2015 L1510372-07	Qual	MW-2-20150512 5/12/2015 L1510372-06	Qual	MW-3-20150512 5/12/2015 L1510372-05	Qual	EB-20150512 5/12/2015 L1510372-08	Qual	TB-20150512 5/8/2015 L1510372-09	Qual
Extractable Petroleum Hydrocarbons (ug/l)																							
C9-C18 Aliphatics	5,000	50,000	100,000	1,000	U	1,000	U	-	-	1,000	U	1,000	U	4,000	U	1,000	U	100	U	100	U	-	-
C19-C36 Aliphatics	~	50,000	100,000	1,000	U	1,000	U	-	-	1,000	U	1,000	U	4,000	U	1,000	U	100	U	100	U	-	-
C11-C22 Aromatics	~	~	~	1,960		1,770		-		1,970		2,740		5,690		2,520		702		100	U	-	
C11-C22 Aromatics, Adjusted	50,000	5,000	100,000	1,000	U	1,000	U	-		1,000	U	1,250		4,000	U	1,000	U	560		100	U	-	
Naphthalene	700	20,000	100,000	**1,080**		**854**		**-**		**905**		**1,290**		**3,560**		**1,520**		37.3		10.0	U	-	
2-Methylnaphthalene	2,000	20,000	100,000	219		146		-		154		204		400	U	279		30.4		10.0	U	-	
Acenaphthylene	10,000	40	100,000	100	U	100	U	-		100	U	100	U	400	U	100	U	28.4		10.0	U	-	
Acenaphthene	~	10,000	100,000	100	U	100	U	-		100	U	100	U	400	U	100	U	14.9		10.0	U	-	
Fluorene	~	40	400	100	U	100	U	-		100	U	100	U	400	U	100	U	13.9		10.0	U	-	
Phenanthrene	~	10,000	100,000	100	U	100	U	-		100	U	100	U	400	U	100	U	16.2		10.0	U	-	
Anthracene	~	30	600	100	U	100	U	-		100	U	100	U	400	U	100	U	10.0	U	10.0	U	-	
Fluoranthene	~	200	2,000	100	U	100	U	-		100	U	100	U	400	U	100	U	10.0	U	10.0	U	-	
Pyrene	~	20	600	100	U	100	U	-		100	U	100	U	400	U	100	U	10.0	U	10.0	U	-	
Benzo(a)anthracene	~	1,000	10,000	100	U	100	U	-		100	U	100	U	400	U	100	U	10.0	U	10.0	U	-	
Chrysene	~	70	700	100	U	100	U	-		100	U	100	U	400	U	100	U	10.0	U	10.0	U	-	
Benzo(b)fluoranthene	~	400	4,000	100	U	100	U	-		100	U	100	U	400	U	100	U	10.0	U	10.0	U	-	
Benzo(k)fluoranthene	~	100	1,000	100	U	100	U	-		100	U	100	U	400	U	100	U	10.0	U	10.0	U	-	
Benzo(a)pyrene	~	500	5,000	100	U	100	U	-		100	U	100	U	400	U	100	U	10.0	U	10.0	U	-	
Indeno(1,2,3-cd)Pyrene	~	100	1,000	100	U	100	U	-		100	U	100	U	400	U	100	U	10.0	U	10.0	U	-	
Dibenzo(a,h)anthracene	~	40	400	100	U	100	U	-		100	U	100	U	400	U	100	U	10.0	U	10.0	U	-	
Benzo(ghi)perylene	~	20	500	100	U	100	U	-		100	U	100	U	400	U	100	U	10.0	U	10.0	U	-	
Volatile Petroleum Hydrocarbons (ug/l)																							
C5-C8 Aliphatics	~	~	~	2,500	U	19,800*		12,200		14,200		6,600		15,700		2,500	U	170		50.0	U	50.0	U
C9-C12 Aliphatics	~	~	~	20,900		1,900*		7,300		7,710		25,200		6,790		11,500		592		50.0	U	50.0	U
C9-C10 Aromatics	4,000	50,000	100,000	**5,720**		1,250*	U	5,000	U	2,500	U	2,900		2,500	U	2,680		270		50.0	U	50.0	U
C5-C8 Aliphatics, Adjusted	3,000	50,000	100,000	2,500	U	6,550*		5,000	U	**5,060**		2,530		**5,410**		2,500	U	165		50.0	U	50.0	U
C9-C12 Aliphatics, Adjusted	5,000	50,000	100,000	**11,500**		1,250*	U	**5,810**		**5,940**		**14,700**		**5,450**		**6,430**		311		50.0	U	50.0	U
Benzene	1,000	10,000	100,000	100	U	12,000*	E	**6,710**		**8,260**		**4,010**		**9,150**		100	U	5.18		2.00	U	2.00	U
Toluene	50,000	40,000	100,000	100	U	1,230*		664		834		50.9		1,150		100	U	5.00	U	2.00	U	2.00	U
Ethylbenzene	20,000	5,000	100,000	1,630		1,230*		661		812		3,530		620		1,220		5.00	U	2.00	U	2.00	U
p/m-Xylene	3,000	5,000	100,000	1,230		855*		492		572		2,700		335		551		5.24		2.00	U	2.00	U
o-Xylene	3,000	5,000	100,000	797		562*		332		386		1,380		390		656		5.62		2.00	U	2.00	U
Methyl tert butyl ether	50,000	50,000	100,000	150	U	75*	U	300	U	150	U	60.0	U	150	U	150	U	7.50	U	3.00	U	3.00	U
Naphthalene	700	20,000	100,000	**2,490**		2,210*		**1,580**		**1,740**		**3,180**		**5,610**		**3,510**		64.1		4.00	U	4.00	U

Notes:
1. 75 U indicates analyte not detected above laboratory reporting limit of 75 concentration units.
2. MCP Groundwater Cleanup Standards taken from 2014 revised MCP at 310 CMR 40.0974(2): TABLE 1.
3. MCP Upper Concentration Limits (UCLs) taken from 2014 revised MCP at 310 CMR 40.0996(6): TABLE 6.
4. Regulatory exceedances:
   Analytical Reporting Limit (RL) exceeded GW-2 and/or GW-3 Groundwater Standards
   Exceeds Method 1 GW-2 and GW-3 Groundwater Standards
   Exceeds Method 3 UCL
5. "~" indicates no standard available for analyte.
6. * The laboratory noted high relative percent differences between the original and the re-analysis due to dilution for VPH sample ENV-5MW-20150512. The laboratory attributed the difference to varying analyte concentrations between the sample vials. The field duplicate pair to sample ENV-5MW-20150512 (DUP-20150512) was analyzed and confirmed the sample re-analysis result; as such, precision criterion between the sample and duplicate were met. Therefore, the original reported results are considered estimated values due to poor precision.
7. "E" = Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
8. Quality Assurance/Quality Control Samples include:
   DUP = Field Duplicate
   EB = Equipment Blank
   TB = Trip Blank
9. "-" indicates not analyzed.

TABLE 8
PID Headspace Screening Data
April 2015

Haffner Realty Trust
284 Winter Street, Haverhill, Massachusetts
Ramboll Environ Project No. 08-36060C

Depth (feet bgs)	PID Readings (ppmv) by Soil Boring Location															
	B-1/MW-1	B-2/MW-2	B-3/MW-3	ENV-1MW	ENV-2B	ENV-3MW	ENV-4B	ENV-5MW	ENV-6B	ENV-7B	ENV-8MW	ENV-9MW	ENV-10B	ENV-11B	ENV-12B	ENV-13B
1	N/A	N/A	N/A	1.4	1.0	5.3	84.3	31.3	0.9	9.3	25.9	26.6	1.6	157	3.0	3.1
2																
3				1.0	1.2	5.0	34.8	4.9	17.3	98.8	67.6	82.7	1.3	124	157	28.7
4								7.4								
5																
6	98.9	136	4.2	0.7	10.3	3.5	8.0	5.9	114	83.0	62.2/24.4	116		286	176	10.8
7																
8	N/A	N/A	N/A	0.7		11.6				116	410/249	105		1,349	193	
9																
10						179										
11	1,128	156	20	1.5		377		10.8		210	782	833		2,021	676	73.0
12																
13	N/A	N/A	N/A	29.2		1,079		965			1,129	1,759		285	903	713
14																
15																
16	668	465	250	727		861		858			1,144	1,312		2,796	2,244	709
17																
18			N/A	662				766			968	1,084		2,121	1,576	960
19																
20																
21			13.5													
22																

Notes: 1.) Ramboll Environ PID readings collected with a MiniRae 3000 PID with a 10.6 eV lamp calibratred to 100ppmv isobutylene standard gas.

2.) NA indicates not analyzed.

3.) Borings B-1/MW-1, B-2/MW-2, and B-3/MW-3 were completed by Lessard Environmental, Inc. in November 2014.

Table 9
Non Aqueous Phase Liquid Analysis
June 2015

Haffner Realty Trust
284 Winter Street, Haverhill, Massachusetts
Ramboll Environ Project No. 08-36060C

CLIENT SAMPLE ID SAMPLING DATE LAB SAMPLE ID	TAR 10-JUN-15 L1512919-01	Qual	LNAPL-RIVER 10-JUN-15 L1512919-02	Qual
PIANO Volatile Organics by GC/MS - mg/kg				
1,1,4-Trimethylcyclohexane	NT		**8.05**	**U**
1,1-Dimethylcyclopentane	NT		**9.71**	**U**
1,2,3,4-Tetramethylbenzene	NT		**449**	
1,2,3,5-Tetramethylbenzene	NT		**574**	
1,2,3-TMCP (ccc)/2-Octene (trans)	NT		**23.2**	**U**
1,2,3-Trimethylbenzene	NT		**182**	
1,2,3-Trimethylcyclopentane (ctc)	NT		**12.3**	**U**
1,2,4,5-Tetramethylbenzene	NT		**309**	
1,2,4-Triethylbenzene	NT		**70.6**	**J**
1,2,4-Trimethylbenzene	NT		**239**	
1,2-Dibromoethane	NT		**12.9**	**U**
1,2-Dichloroethane	NT		**11.9**	**U**
1,2-Diethylbenzene	NT		**23.1**	**J**
1,2-Dimethyl-3-Ethylbenzene	NT		**123**	
1,2-Dimethyl-4-Ethylbenzene	NT		**109**	
1,2-Dimethylcyclohexane (cis)	NT		**23.5**	**U**
1,2-Dimethylcyclohexane (trans)	NT		**11.9**	**U**
1,3,5-Triethylbenzene	NT		**15.4**	**U**
1,3,5-Trimethylbenzene	NT		**31.5**	**J**
1,3-Diethylbenzene	NT		**91.5**	
1,3-Dimethyl-2-Ethylbenzene	NT		**90.3**	
1,3-Dimethyl-4-Ethylbenzene	NT		**193**	
1,3-Dimethyl-5-Ethylbenzene	NT		**311**	
1,3-Dimethyl-5-tert-Butylbenzene	NT		**11.5**	**U**
1,3-Dimethylcyclopentane (cis)	NT		**12.2**	**U**
1,3-DMCP (trans)/2-Methyl-1-hexene	NT		**28.4**	**U**
1,4-Dimethyl-2-Ethylbenzene	NT		**143**	
1,4-Dimethylcyclohexane (trans)	NT		**10.5**	**U**
1-Decene	NT		**10.5**	**U**
1-Heptene/1,2-DMCP (trans)	NT		**23.7**	**U**
1-Hexene	NT		**11.4**	**U**
1-Methyl-2-Ethylbenzene	NT		**31.2**	**J**
1-Methyl-2-Isopropylbenzene	NT		**11.5**	**J**
1-Methyl-2-N-Propylbenzene	NT		**66.5**	**J**
1-Methyl-3-Ethylbenzene	NT		**12.8**	**U**
1-Methyl-3-Isopropylbenzene	NT		**36.8**	**J**
1-Methyl-3-N-Propylbenzene	NT		**38.5**	**J**
1-Methyl-4-Ethylbenzene	NT		**11.5**	**J**
1-Methyl-4-Isopropylbenzene	NT		**33.4**	**J**
1-Methyl-4-N-Propylbenzene	NT		**57.8**	**J**
1-Methylnaphthalene	NT		**7470**	
1-Nonene	NT		**10.9**	**U**
1-Octene	NT		**12.4**	**U**
1-Pentene	NT		**14.8**	**U**
2,2,3-Trimethylbutane	NT		**10.9**	**U**
2,2,3-Trimethylpentane	NT		**14**	**U**
2,2-Dimethylbutane	NT		**25**	**U**
2,2-Dimethylhexane	NT		**11.7**	**U**
2,2-Dimethylpentane	NT		**10.9**	**U**
2,3,3-Trimethylpentane	NT		**16**	**U**
2,3,4-Trimethylpentane	NT		**10.6**	**U**
2,3-Dimethylbutane	NT		**33.4**	**U**
2,3-Dimethylheptane	NT		**9.22**	**U**
2,3-Dimethylhexane	NT		**19.6**	**U**
2,3-Dimethylpentane	NT		**10.7**	**U**
2,4-Dimethylhexane	NT		**9.83**	**U**
2,4-Dimethylpentane	NT		**9.99**	**U**
2,5-Dimethylheptane	NT		**13.6**	**U**
2,5-Dimethylhexane	NT		**14.1**	**U**
2-Ethylthiophene	NT		**7.12**	**U**
2-Methyl-1-Butene	NT		**12.6**	**U**
2-Methyl-2-pentene	NT		**12.4**	**U**
2-Methylheptane	NT		**13.7**	**U**

Table 9
Non Aqueous Phase Liquid Analysis
June 2015

Haffner Realty Trust
284 Winter Street, Haverhill, Massachusetts
Ramboll Environ Project No. 08-36060C

CLIENT SAMPLE ID SAMPLING DATE LAB SAMPLE ID	TAR 10-JUN-15 L1512919-01	Qual	LNAPL-RIVER 10-JUN-15 L1512919-02	Qual
2-Methylhexane	NT		**12.7**	**U**
2-Methylnaphthalene	NT		**11,000**	
2-Methylnaphthalene	NT		**9,580**	**E**
2-Methylnonane	NT		**12.2**	**J**
2-Methyloctane	NT		**20.7**	**U**
2-Methylpentane	NT		**21.9**	**U**
2-Methylthiophene	NT		**6.88**	**U**
2-Nonene	NT		**10.3**	**U**
3,3-Diethylpentane	NT		**9.42**	**U**
3,3-Dimethylheptane	NT		**9.79**	**U**
3,3-Dimethyloctane	NT		**8.17**	**U**
3,3-Dimethylpentane	NT		**15**	**U**
3,4-Dimethylheptane	NT		**13.8**	**U**
3,5-Dimethylheptane	NT		**11.4**	**U**
3-Ethylhexane	NT		**14.5**	**U**
3-Ethylpentane	NT		**11.7**	**U**
3-Methyl-1-butene	NT		**12**	**U**
3-Methylheptane	NT		**11.5**	**U**
3-Methylhexane	NT		**12.9**	**U**
3-Methylnonane	NT		**20.4**	**J**
3-Methyloctane	NT		**9.06**	**U**
3-Methylpentane	NT		**12.8**	**U**
3-Methylthiophene	NT		**9.47**	**U**
4-Methyl-1-pentene	NT		**12.6**	**U**
4-Methylheptane	NT		**13.9**	**U**
4-Methyloctane	NT		**13.5**	**U**
Benzene	NT		**39.4**	**J**
Benzothiophene	NT		**142**	
cis-2-Heptene	NT		**15.6**	**U**
cis-2-Hexene	NT		**11**	**U**
cis-2-Octene	NT		**9.26**	**U**
cis-2-Pentene	NT		**13**	**U**
cis-3-Heptene	NT		**11.5**	**U**
cis-3-Nonene	NT		**15.1**	**U**
Cyclohexane	NT		**9.99**	**U**
Cyclopentane	NT		**21**	**U**
Decane (C10)	NT		**11**	**U**
Dodecane (C12)	NT		**26.6**	**U**
Ethyl-Tert-Butyl-Ether	NT		**12.2**	**U**
Ethylbenzene	NT		**8.74**	**U**
Ethylcyclopentane	NT		**10.7**	**U**
Heptane	NT		**14.1**	**U**
Hexylbenzene	NT		**207**	
Indane	NT		**689**	
Indene	NT		**29.9**	**J**
Isobutylbenzene	NT		**11.3**	**J**
Isobutylcyclohexane	NT		**6.59**	**U**
Isooctane	NT		**8.82**	**U**
Isopentane	NT		**14.8**	**U**
Isoprene	NT		**14.4**	**U**
Isopropyl Ether	NT		**9.79**	**U**
Isopropylbenzene	NT		**7.56**	**U**
Isopropylcyclohexane	NT		**8.58**	**U**
Isopropylcyclopentane	NT		**11.8**	**U**
Methyl tert butyl ether	NT		**16.7**	**U**
Methylcyclohexane	NT		**10.9**	**U**
Methylcyclopentane	NT		**10.8**	**U**
MMT	NT		**52**	**U**
n-Butylbenzene	NT		**40.4**	**J**
n-Hexane	NT		**13.3**	**U**
N-Pentylbenzene	NT		**53.8**	**J**
n-Propylbenzene	NT		**7.16**	**U**
Naphthalene	NT		**7630**	

Table 9
Non Aqueous Phase Liquid Analysis
June 2015

Haffner Realty Trust
284 Winter Street, Haverhill, Massachusetts
Ramboll Environ Project No. 08-36060C

CLIENT SAMPLE ID SAMPLING DATE LAB SAMPLE ID	TAR 10-JUN-15 L1512919-01	Qual	LNAPL-RIVER 10-JUN-15 L1512919-02	Qual
Nonane (C9)	NT		12.6	U
o-Xylene	NT		15.6	J
Octane	NT		9.51	U
p/m-Xylene	NT		15.4	U
Pentadecane	NT		45.1	U
Pentane	NT		25.2	U
sec-Butylbenzene	NT		11.6	J
Styrene	NT		8.17	U
tert-Butylbenzene	NT		8.54	U
Tertiary Butanol	NT		131	U
Tertiary-Amyl Methyl Ether	NT		9.95	U
Tetradecane (C14)	NT		24.8	U
Thiophene	NT		11.5	U
Toluene	NT		11	U
trans-2-Heptene	NT		10.4	U
trans-2-Hexene	NT		10.6	U
trans-2-Pentene	NT		10.9	U
trans-3-Heptene	NT		12.6	U
trans-3-Nonene	NT		9.59	U
Tridecane	NT		56.4	U
Undecane	NT		8.98	U
PAHs - mg/kg				
1-Methylnaphthalene	4,690		6,070	
2,3,5-Trimethylnaphthalene	278		1,400	
2,6-Dimethylnaphthalene	1,950		5,880	
2-Methylnaphthalene	See Below		8,560	
2-Methylnaphthalene	6,840		7,540	E
Acenaphthene	358		2,260	
Acenaphthylene	1,040		297	
Anthracene	932		1,070	
Benz(a)anthracene	547		843	
Benzo(a)pyrene	380		507	
Benzo(b)fluoranthene	212		249	
Benzo(e)pyrene	202		268	
Benzo(g,h,i)perylene	193		164	
Benzo(j)+(k)fluoranthene	210		348	
Biphenyl	478		776	
C1-Chrysenes	772		796	
C1-Dibenzothiophenes BS	494		952	
C1-Fluoranthenes/Pyrenes	1,300		1,690	
C1-Fluorenes	803		1,460	
C1-Naphthalenes	See Below		9,230	
C1-Naphthalenes	6,890		8,190	E
C1-Phenanthrenes/Anthracenes	3,030		4,080	
C2-Chrysenes BS	477		375	
C2-Dibenzothiophenes	355		697	
C2-Fluoranthenes/Pyrenes	615		614	
C2-Fluorenes	644		1,420	
C2-Naphthalenes	3,580		10,500	
C2-Phenanthrenes/Anthr BS	1,270		1,870	
C3-Chrysenes	228		152	
C3-Dibenzothiophenes	166		314	
C3-Fluoranthenes/Pyrenes	260		202	
C3-Fluorenes	200		648	
C3-Naphthalenes	1,290		7,830	
C3-Phenanthrenes/Anthracenes	376		582	
C4-Chrysenes	95.5		74	
C4-Dibenzothiophenes	49.8		89.6	
C4-Fluoranthenes/Pyrenes	88.1		74	
C4-Naphthalenes	294		3,530	
C4-Phenanthrenes/Anthracenes	81.5		144	
Chrysene/Triphenylene	592		788	
Dibenz(a,h)+(a,c)anthracene	52.8		61.9	

Table 9
Non Aqueous Phase Liquid Analysis
June 2015

Haffner Realty Trust
284 Winter Street, Haverhill, Massachusetts
Ramboll Environ Project No. 08-36060C

CLIENT SAMPLE ID SAMPLING DATE LAB SAMPLE ID	TAR 10-JUN-15 L1512919-01	Qual	LNAPL-RIVER 10-JUN-15 L1512919-02	Qual
Dibenzofuran	159		379	
Dibenzothiophene	372		593	
Fluoranthene	973		1,280	
Fluorene	953		1,550	
Indeno(1,2,3-cd)pyrene	155		159	
Naphthalene	20,500		See Below	
Naphthalene	9,270	E	6,380	
Perylene	80.2		63.2	
Phenanthrene	3,280		4,320	
Pyrene	1,410		2,010	
Retene	1.43	U	1.32	U
Saturated Hydrocarbons by GC-FID - mg/kg				
2,6,10-Trimethyldodecane (1380)	29.2	U	5,010	
2,6,10-Trimethyltridecane (1470)	1,660		9,070	
n-Decane (C10)	758		85.8	J
n-Docosane (C22)	185	J	18.7	U
n-Dodecane (C12)	416		491	
n-Dotriacontane (C32)	24.5	U	22.6	U
n-Eicosane (C20)	27.5	U	25.4	U
n-Heneicosane (C21)	23.2	U	21.5	U
n-Hentriacontane (C31)	27.5	U	25.4	U
n-Heptacosane (C27)	54.6	J	34.5	J
n-Heptadecane (C17)	539		966	
n-Heptatriacontane (C37)	43.1	U	39.9	U
n-Hexacosane (C26)	89.7	J	53.1	J
n-Hexadecane (C16)	940	G	2,990	
n-Hexatriacontane (C36)	38.6	U	35.7	U
n-Nonacosane (C29)	129	U	120	U
n-Nonadecane (C19)	49.9	U	266	
n-Nonane (C9)	57.6	U	53.3	U
n-Nonatriacontane (C39)	63	U	58.3	U
n-Octacosane (C28)	66.2	J	38.5	U
n-Octadecane (C18)	6,810	G	5,850	
n-Octatriacontane (C38)	45.3	U	41.8	U
n-Pentacosane (C25)	1,190		794	
n-Pentadecane (C15)	274		21.4	U
n-Pentatriacontane (C35)	33.9	U	31.3	U
n-Tetracontane (C40)	63	U	58.3	U
n-Tetracosane (C24)	32.5	U	30	U
n-Tetradecane (C14)	29.2	U	27	U
n-Tetratriacontane (C34)	30.9	U	28.6	U
n-Triacontane (C30)	22.3	U	20.6	U
n-Tricosane (C23)	571		361	
n-Tridecane (C13)	53.3	U	49.3	U
n-Tritriacontane (C33)	27.3	U	25.3	U
n-Undecane (C11)	345		133	J
Norpristane (1650)	262		7,030	
Phytane	1,830	G	5,500	
Pristane	122	J	13,100	
Total Petroleum Hydrocarbons (C9-C44)	390,000		976,000	
Total Saturated Hydrocarbons	16,100		51,700	

Notes:
1. NT indicates not tested.
2. U indicated analyte was not detected above the indicated laboratory analytical reporting limit.
3. J indicates estimated concentration below the quantitation limit (RL), but above the Method Detection Limit.
4. E indicates concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
5. G indicates the concentration may be biased high due to matrix interferences (i.e., co-elution) with non-target compound(s). The result should be considered estimated.

Table 10
NAPL/Groundwater Gauging Data
May - February 2016

Haffner Realty Trust
284 Winter Street, Haverhill, Massachusetts
Ramboll Environ Project No. 08-36060C

Well	Easting (X)	Northing (Y)	Elevations			5/12/2015				8/6/2015				9/4/2015				10/2/2015				10/30/2015			
			Casing	PVC	Ground	Depth to NAPL	Depth to Water	NAPL Thickness	Groundwater Elevation	Depth to NAPL	Depth to Water	NAPL Thickness	Groundwater Elevation	Depth to NAPL	Depth to Water	NAPL Thickness	Groundwater Elevation	Depth to NAPL	Depth to Water	NAPL Thickness	Groundwater Elevation	Depth to NAPL	Depth to Water	NAPL Thickness	Groundwater Elevation
MW-1	766925.24	3108449.93	26.14	25.89	26.15	ND	3.31	ND	22.58	ND	3.56	ND	22.33	ND	3.88	ND	22.01	ND	4.00	ND	21.89	ND	4.14	ND	21.75
MW-2	766815.14	3108533.58	24.52	24.22	24.53	ND	12.34	ND	11.88	ND	12.93	ND	11.29	ND	13.14	ND	11.08	ND	12.62	ND	11.60	ND	13.00	ND	11.22
MW-3	766986.87	3108501.64	25.77	25.18	25.78	ND	12.14	ND	13.04	ND	12.89	ND	12.29	ND	13.22	ND	11.96	ND	12.92	ND	12.26	ND	13.18	ND	12.00
ENV-1MW	766749.47	3108553.65	23.85	23.40	23.82	ND	13.45	ND	9.95	ND	13.62	ND	9.78	ND	13.7	ND	9.70	ND	13.35	ND	10.05	13.45	13.45	Sheen	9.95
ENV-3MW	766800.05	3108487.42	24.47	24.12	24.46	13.52	13.54	0.02	10.58	14.14	14.36	0.22	9.76	ND	14.31	ND	9.81	ND	13.89	ND	10.23	ND	13.96	ND	10.16
ENV-5MW	766875.61	3108413.12	25.83	25.46	25.83	ND	14.28	ND	11.18	15.05	15.05	Sheen	10.41	ND	15.34	ND	10.12	ND	15.01	ND	10.45	ND	15.05	ND	10.41
ENV-8MW	766964.45	3108376.75	26.79	26.44	26.78	ND	14.61	ND	11.83	15.48	15.52	0.04	10.92	ND	15.81	ND	10.63	ND	15.63	ND	10.81	ND	15.69	ND	10.75
ENV-9MW	766990.42	3108343.23	26.96	26.72	26.82	15.09	15.12	0.03	11.60	15.90	16.09	0.19	10.63	ND	16.2	ND	10.52	ND	16.03	ND	10.69	ND	16.04	ND	10.68

Notes:

1. NAPL = Non-Aqueous Phase Liquid
2. All depths expressed in feet below the top of the PVC well casing.
3. NAPL thickness expressed in feet.
4. ND = Not Detected
5. Groundwater elevation was calculated from the top of PVC and was not corrected for the presence of LNAPL in the well.

Table 10
NAPL/Groundwater Gauging Data
May - February 2016

Haffner Realty Trust
284 Winter Street, Haverhill, Massachusetts
Ramboll Environ Project No. 08-36060C

Well	Easting (X)	Northing (Y)	Elevations			12/2/2015				12/31/2015				1/25/2016				2/26/2016			
			Casing	PVC	Ground	Depth to NAPL	Depth to Water	NAPL Thickness	Groundwater Elevation	Depth to NAPL	Depth to Water	NAPL Thickness	Groundwater Elevation	Depth to NAPL	Depth to Water	NAPL Thickness	Groundwater Elevation	Depth to NAPL	Depth to Water	NAPL Thickness	Groundwater Elevation
MW-1	766925.24	3108449.93	26.14	25.89	26.15	ND	4.23	ND	21.66	ND	3.82	ND	22.07	ND	3.78	ND	22.11	ND	2.86	ND	23.03
MW-2	766815.14	3108533.58	24.52	24.22	24.53	ND	13.10	ND	11.12	ND	12.70	ND	11.52	ND	12.71	ND	11.51	ND	12.31	ND	11.91
MW-3	766986.87	3108501.64	25.77	25.18	25.78	ND	13.27	ND	11.91	ND	12.94	ND	12.24	ND	12.85	ND	12.33	ND	12.50	ND	12.68
ENV-1MW	766749.47	3108553.65	23.85	23.40	23.82	ND	13.59	ND	9.81	ND	13.30	ND	10.10	ND	13.51	ND	9.89	ND	12.44	ND	10.96
ENV-3MW	766800.05	3108487.42	24.47	24.12	24.46	ND	14.04	ND	10.08	ND	13.6	ND	10.52	ND	13.78	ND	10.34	ND	13.1	ND	11.02
ENV-5MW	766875.61	3108413.12	25.83	25.46	25.83	ND	15.07	ND	10.39	ND	14.64	ND	10.82	ND	15.39	ND	10.07	ND	14.25	ND	11.21
ENV-8MW	766964.45	3108376.75	26.79	26.44	26.78	ND	15.66	ND	10.78	ND	15.29	ND	11.15	ND	15.85	ND	10.59	ND	15.00	ND	11.44
ENV-9MW	766990.42	3108343.23	26.96	26.72	26.82	ND	16.07	ND	10.65	ND	15.72	ND	11.00	ND	14.87	ND	11.85	ND	15.40	ND	11.32

Notes:

1. NAPL = Non-Aqueous Phase Liquid
2. All depths expressed in feet below the top of the PVC well casing.
3. NAPL thickness expressed in feet.
4. ND = Not Detected
5. Groundwater elevation was calculated from the top of PVC and was not corrected for the presence of LNAPL in the well.

TABLE 11
Minimum and Maximum Detected EPH/VPH Concentrations in Soil and Groundwater
April 2015

Haffner Realty Trust
284 Winter Street, Haverhill, Massachusetts
Ramboll Environ Project No. 08-36060C

	SOIL (mg/kg)		GROUNDWATER (ug/L)	
Extractable Petroleum Hydrocarbons	**Minimum Detected Concentration**	**Maximum Detected Concentration**	**Minimum Detected Concentration**	**Maximum Detected Concentration**
C9-C18 Aliphatics	68.7	13,300	ND	ND
C19-C36 Aliphatics	51	2,020	ND	ND
C11-C22 Aromatics	161	18,200	702	5,690
C11-C22 Aromatics, Adjusted	106	15,600	560	1,250
Naphthalene	62.2	3,180	37.3	3,560
2-Methylnaphthalene	7.49	1,560	30.4	279
Acenaphthylene	0.674	136	28.4	28.4
Acenaphthene	1.1	163	14.9	14.9
Fluorene	1.25	180	13.9	13.9
Phenanthrene	5.76	628	16.2	16.2
Anthracene	1.76	134	ND	ND
Fluoranthene	2.6	157	ND	ND
Pyrene	3.2	201	ND	ND
Benzo(a)anthracene	1.58	84.7	ND	ND
Chrysene	0.155	82.2	ND	ND
Benzo(b)fluoranthene	1.24	41.2	ND	ND
Benzo(k)fluoranthene	1.22	47.3	ND	ND
Benzo(a)pyrene	2.62	67.8	ND	ND
Indeno(1,2,3-cd)Pyrene	1.15	30.1	ND	ND
Dibenzo(a,h)anthracene	0.397	10.6	ND	ND
Benzo(ghi)perylene	1.22	30.5	ND	ND
Volatile Petroleum Hydrocarbons				
C5-C8 Aliphatics	3.63*	850	170	19,800*
C9-C12 Aliphatics	127	5,500	592	25,200
C9-C10 Aromatics	113	3,530	270	5,720
C5-C8 Aliphatics, Adjusted	3.63*	466	165	6,550*
C9-C12 Aliphatics, Adjusted	8.77	2,730	311	14,700
Benzene	0.28	105	5.18	12,000*
Toluene	2.71	306	50.9	1,230*
Ethylbenzene	4.22	346	620	1,630
p/m-Xylene	0.526	403	5.24	2,700
o-Xylene	0.591	162	5.62	1,380
Methyl tert butyl ether	ND	ND	ND	ND
Naphthalene	3.2	2,910	64.1	5,610

Notes: 1. * Estimated value
2. ND - Analytes were not detected above laboratory analytical reporting limits

APPENDICES

APPENDIX A

MassDEP Notices of Responsibility (NORs)

Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Northeast Regional Office • 205B Lowell Street, Wilmington MA 01887 • 978-694-3200

Charles D. Baker
Governor

Karyn E. Polito
Lieutenant Governor

Matthew A. Beaton
Secretary

Martin Suuberg
Commissioner

APR 10 2015

Haffner Realty Trust
Two International Way
Lawrence, MA 01843

RE: Haverhill
Haffner's
284 Winter Street
RTN 3-32792

Attention: Joanne Fournier

NOTICE OF RESPONSIBILITY PER M.G.L. c.21E & 310 CMR 40.0000, the MASSACHUSETTS CONTINGENCY PLAN

THIS IS AN IMPORTANT NOTICE. FAILURE TO TAKE ADEQUATE ACTION IN RESPONSE TO THIS NOTICE COULD RESULT IN SERIOUS LEGAL CONSEQUENCES.

Dear Ms. Fournier:

Information contained in a Release Notification Form submitted to the Massachusetts Department of Environmental Protection (MassDEP) on March 30, 2015, by Haffner Realty Trust indicates that there is or has been a release of Oil and/or Hazardous Material at the above-referenced property which exceeds a "120 day" reporting threshold (310 CMR 40.0315) and which requires one or more Response Actions.

Based on this information, MassDEP has reason to believe that the subject property or portion(s) thereof is a Disposal Site as defined in the Massachusetts Oil and Hazardous Material Release Prevention and Response Act, M.G.L. c. 21E, and the Massachusetts Contingency Plan, 310 CMR 40.0000 (the MCP). M.G.L. c. 21E and the MCP govern the assessment and cleanup of Disposal Sites.

The purpose of this notice is to inform you of your legal responsibilities under state law for assessing and/or remediating the subject release. For purposes of this notice, the terms and phrases used herein shall have the meaning ascribed to them by the MCP unless the text clearly indicates otherwise.

STATUTORY LIABILITIES

MassDEP has reason to believe that you (as used in this letter, "you" refers to Haffner Realty Trust) are a Potentially Responsible Party with liability under M.G.L. c. 21E, § 5, for

Response Action Costs. Section 5 makes the following parties liable to the Commonwealth of Massachusetts: current owners or operators of a site from or at which there is or has been a release/threat of release of oil or hazardous material; any person who owned or operated a site at the time hazardous material was stored or disposed of; any person who arranged for the transport, disposal, storage or treatment of hazardous material to or at a site; any person who transported hazardous material to a transport, disposal, storage or treatment site from which there is or has been a release/threat of release of such material; and any person who otherwise caused or is legally responsible for a release/threat of release of oil or hazardous material at a site.

This liability is "strict", meaning it is not based on fault, but solely on your status as an owner, operator, generator, transporter or disposer. It is also joint and several, meaning that you may be liable for all Response Action Costs incurred at the site, regardless of the existence of any other liable parties.

The MCP requires Responsible Parties to take necessary Response Actions at properties where there is or has been a release or threat of release of oil and/or hazardous material. If you do not take the necessary Response Actions, or fail to perform them in an appropriate and timely manner, MassDEP is authorized by M.G.L. c. 21E to have the work performed by its contractors. By taking such Response Actions, you can avoid liability for Response Action Costs incurred by MassDEP and its contractors in performing these actions, and for possible sanctions, which may be imposed for failure to perform necessary Response Actions under the MCP.

You may be liable for up to three (3) times all Response Action Costs incurred by MassDEP. Response Action Costs include, without limitation, the cost of direct hours spent by MassDEP employees arranging for response actions or overseeing work performed by persons other than MassDEP or its contractors, expenses incurred by MassDEP in support of those direct hours, and payments to MassDEP's contractors. (For more detail on cost liability, see 310 CMR 40.1200.)

MassDEP may also assess interest on costs incurred at the rate of twelve percent (12%), compounded annually. To secure payment of this debt, the Commonwealth may place liens on all of your property in the Commonwealth. To recover the debt, the Commonwealth may foreclose on these liens or the Attorney General may bring legal action against you.

In addition to your liability for up to three (3) times all Response Action Costs incurred by MassDEP, you may also be liable to the Commonwealth for damages to natural resources caused by the release. Civil and criminal liability may also be imposed under M.G.L. c. 21E, § 11, and civil administrative penalties may be imposed under M.G.L. c. 21A, § 16 for each violation of M.G.L. c. 21E, the MCP, or any order, permit or approval issued thereunder.

NECESSARY RESPONSE ACTIONS

The subject site shall not be deemed to have all the necessary and required Response Actions taken unless and until all Substantial Hazards presented by the site have been eliminated and a level of No Significant Risk exists or has been achieved in compliance with M.G.L. c. 21E and the MCP. In addition, the MCP requires persons undertaking Response Actions at Disposal Sites to perform Immediate Response Actions (IRAs) in response to "sudden releases", Imminent Hazards and Substantial Release Migration. Such persons must continue to evaluate the need for IRAs and notify MassDEP immediately if such a need exists.

You must employ or engage a Licensed Site Professional (LSP) to manage, supervise or actually perform the necessary Response Actions at the subject Site. In addition, the MCP requires persons undertaking response actions at a Disposal Site to submit to MassDEP a Permanent Solution Statement prepared by an LSP in accordance with 310 CMR 40.1000 upon determining that a level of No Significant Risk already exists or has been achieved at a Disposal Site or portion thereof. [You may obtain a list of the names and addresses of these licensed professionals from the Board of Registration of Hazardous Waste Site Cleanup Professionals at http://www.mass.gov/eea/agencies/lsp/ or (617) 556-1091.]

MassDEP has determined that initial site investigation activities, in accordance with 310 CMR 40.0405, are necessary. In addition, unless a Permanent Solution Statement is submitted earlier, a completed Tier Classification Submittal pursuant to 310 CMR 40.0510, must be submitted to MassDEP within one year of the initial notice of a release provided to MassDEP pursuant to 310 CMR 40.0300 or from the date MassDEP issues a Notice of Responsibility, whichever occurs earlier.

It is important to note that you must dispose of any Remediation Waste generated at the subject Site in accordance with 310 CMR 40.0030 including, without limitation, contaminated soil and/or debris. Any Bill of Lading accompanying such waste must bear the seal and signature of an LSP or, if the response action is performed under the direct supervision of MassDEP, the signature of an authorized representative of MassDEP.

MassDEP encourages parties with liabilities under M.G.L. c. 21E to take prompt action in response to releases and threats of release of Oil and/or Hazardous Material. By taking prompt action, you may significantly lower your assessment and cleanup costs and avoid the imposition of, or reduce the amount of Annual Compliance Fees for Response Actions payable under 310 CMR 4.00.

If you have any questions relative to this notice, you should contact Ida Babroudi at the letterhead address or (978) 694-3386. All future communications regarding this release must reference the Release Tracking Number **RTN 3-32792** contained in the subject block of this letter.

Very truly yours,

Ida Babroudi

Ida Babroudi
Environmental Engineer
Bureau of Waste Site Cleanup
MassDEP, Northeast Regional Office

cc: Board of Health, City of **Haverhill**, Ms. Donna A. Leone
"via electronic submittal", bdufresne@cityofhaverhill.com

MassDEP data entry/file (NOR / Issued)

Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Northeast Regional Office • 205B Lowell Street, Wilmington MA 01887 • 978-694-3200

Charles D. Baker
Governor

Karyn E. Polito
Lieutenant Governor

Matthew A. Beaton
Secretary

Martin Suuberg
Commissioner

JUN 03 2015

URGENT LEGAL MATTER: PROMPT ACTION NECESSARY

Haffner's Realty Trust
2 International Way
Lawrence, MA 01843

RE: Haverhill
Gasoline Station/Former MGP Site
284 Winter Street
RTN 3-32875

Attention: Joane Fournier

NOTICE OF RESPONSIBILITY;
MGL c. 21E & 310 CMR 40.0000

Dear Ms. Fournier:

On May 12, 2015 at 11:44 am, the Massachusetts Department of Environmental Protection (MassDEP) received oral notification of a release/threat of release of Oil/Hazardous Material at the subject location, which requires one or more Response Actions. Based on this information, MassDEP has reason to believe that the subject property or portion(s) thereof is a disposal site as defined in the Massachusetts Oil and Hazardous Material Release Prevention and Response Act, M.G.L. c. 21E and the Massachusetts Contingency Plan (MCP), 310 CMR 40.0000. M.G.L. c.21E and the MCP govern the assessment and cleanup of Disposal Sites.

The purpose of this notice is to inform you of your legal responsibilities under state law for assessing and/or remediating the subject release. For purposes of this notice, the terms and phrases used herein shall have the meaning ascribed to them by the MCP unless the text clearly indicates otherwise.

STATUTORY LIABILITIES

MassDEP also has reason to believe that you (as used in this letter "you" refers to Haffner's Realty Trust) are a Potentially Responsible Party (PRP) with liability under M.G.L. c. 21E, Section

5, for Response Action Costs. Section 5 makes the following parties liable to the Commonwealth of Massachusetts: current owners or operators of a site from or at which there is or has been a release/threat of release of oil or hazardous material; any person who owned or operated a site at the time hazardous material was stored or disposed of; any person who arranged for the transport, disposal, storage or treatment of hazardous material to or at a site; any person who transported hazardous material to a transport, disposal, storage or treatment site from which there is or has been a release/threat of release of such material; and any person who otherwise caused or is legally responsible for a release/threat of release of oil or hazardous material at a site.

This liability is "strict" meaning that it is not based on fault but solely on your status as owner, operator, generator, transporter or disposer. It is also "joint and several", meaning that you may be liable for all response action costs incurred at the site, regardless of the existence of any other liable parties.

The MCP requires responsible parties to take necessary Response Actions at properties where there is or has been a release or threat of release of oil and/or hazardous material. If you do not take the necessary Response Actions, or fail to perform them in an appropriate and timely manner, MassDEP is authorized by M.G.L. c. 21E to have the work performed by its contractors. By taking such actions, you can avoid liability for Response Action Costs incurred by MassDEP and its contractors in performing these actions, and any sanctions, which may be imposed, for failure to perform Response Actions under the MCP.

You may be liable for up to three (3) times all Response Action Costs incurred by MassDEP. Response Action Costs include, without limitation, the cost of direct hours spent by MassDEP employees arranging for response actions or overseeing work performed by persons other than MassDEP or its contractors, expenses incurred by MassDEP in support of those direct hours, and payments to MassDEP's contractors. (For more detail on cost liability, see 310 CMR 40.1200.)

MassDEP may also assess interest on costs incurred at the rate of twelve percent (12%), compounded annually. To secure payment of this debt, the Commonwealth may place liens on all of your property in the Commonwealth. To recover the debt, the Commonwealth may foreclose on these liens or the Attorney General may bring legal action against you.

In addition to your liability for up to three (3) times all response action costs incurred by MassDEP, you may also be liable to the Commonwealth for damages to natural resources caused by the release. Civil and criminal liability may also be imposed under M.G.L. c. 21E, § 11, and civil administrative penalties may be imposed under M.G.L. c. 21A, § 16 for each violation of M.G.L. c. 21E, the MCP, or any order, permit or approval issued hereunder.

NECESSARY RESPONSE ACTIONS

The subject site shall not be deemed to have all the necessary and required Response Actions taken unless and until all Substantial Hazards presented by the site have been eliminated and a level of No Significant Risk exists or has been achieved in compliance with M.G.L. c. 21E and the MCP. In addition, the MCP requires persons undertaking Response Actions at Disposal Sites perform Immediate Response Actions (IRAs) in response to "sudden releases", Imminent Hazards and Substantial Release Migration. Such persons must continue to evaluate the need for IRAs and notify MassDEP immediately if such a need exists.

MassDEP has determined that an IRA is necessary to respond to a release of Oil and/or Hazardous Material at the subject site.

You are authorized to conduct only the specific response actions for which you received oral approval from MassDEP at the time oral notification was provided to MassDEP of the release of Oil and/or Hazardous Materials. All additional Immediate Response Actions require MassDEP approval in accordance with 310 CMR 40.0420.

MassDEP reminds you that IRAs must include site assessment activities necessary to evaluate potential Imminent Hazard (IH), Substantial Release Migration (SRM), and Critical Exposure Pathway (CEP) conditions. Additional Immediate Response Actions will be required in the event that one or more of these conditions are observed.

You must employ or engage a Licensed Site Professional (LSP) to manage, supervise or actually perform the necessary response actions at the subject site. In addition, the MCP requires persons undertaking response actions at a disposal site submit to MassDEP a Permanent Solution Statement prepared by an LSP in accordance with 310 CMR 40.1000 upon determining that a level of No Significant Risk already exists or has been achieved at a disposal site or portion thereof. [You may obtain a list of the names and addresses of these licensed professionals from the Board of Registration of Hazardous Waste Site Cleanup Professionals at http://www.mass.gov/eea/agencies/lsp/ or (617) 556-1091.]

There are several other submittals required by the MCP which are related to release notification and/or Response Actions that may be conducted at the subject site in addition to a Permanent Solution Statement that, unless otherwise specified by MassDEP, must be provided to MassDEP within specific regulatory timeframes. The submittals are as follows:

(1) If information is obtained after making an oral or written notification to indicate that the release or threat of release didn't occur, failed to meet the reporting criteria at 310 CMR 40.0311 through 40.0315, or is exempt from notification pursuant to 310 CMR 40.0317, a Notification Retraction may be submitted within 60 days of initial notification pursuant to 310 CMR 40.0335;

(2) If a Notification Retraction has not been submitted, a Release Notification Form (RNF) must be submitted to MassDEP pursuant to section 310 CMR 40.0333 within 60 calendar

days of the initial date of oral notification to MassDEP of a release pursuant to 310 CMR 40.0300 or from the date MassDEP issues a Notice of Responsibility (NOR), whichever occurs earlier. The RNF can either be submitted electronically or using the PDF Form at http://www.mass.gov/eea/docs/dep/cleanup/approvals/bwsc-103.pdf ;

(3) Unless a Permanent Solution Statement or Downgradient Property Status Submittal is provided to MassDEP earlier, an Immediate Response Action (IRA) Plan prepared in accordance with 310 CMR 40.0420, or an IRA Completion Statement (310 CMR 40.0427) must be submitted to MassDEP within 60 calendar days of the initial date of oral notification to MassDEP of a release pursuant to 310 CMR 40.0300 or from the date MassDEP issues an NOR, whichever occurs earlier; and

(4) Unless a Permanent Solution Statement or Downgradient Property Status Submittal is provided to MassDEP earlier, a completed Tier Classification Submittal pursuant to 310 CMR 40.0510 must be submitted within one year of the initial date of notification of a release pursuant to 310 CMR 40.0300 or from the date MassDEP issues an NOR, whichever occurs earlier or as otherwise specified by the Department in an Interim Deadline or order issued pursuant to 310 CMR 40.0501 (2).

(5) Pursuant to MassDEP's "Timely Action Schedule and Fee Provisions", 310 CMR 4.00, the appropriate fee must be included with a Permanent Solution Statement that is submitted to MassDEP more than 120 calendar days after the initial date of oral notification to MassDEP of a release pursuant to 310 CMR 40.0300, or more than 120 calendar days after the date MassDEP issues an NOR, whichever occurs earlier, and before Tier Classification. A fee is not required for a Permanent Solution Statement submitted to MassDEP within 120 days of the date of oral notification to MassDEP, or within 120 days of the date MassDEP issues an NOR, whichever date occurs earlier, or after Tier Classification.

It is important to note that you must dispose of any Remediation Waste generated at the subject location in accordance with 310 CMR 40.0030 including, without limitation, contaminated soil and/or debris. Any Bill of Lading accompanying such waste must bear the seal and signature of an LSP or, if the response action is performed under the direct supervision of MassDEP, the signature of an authorized representative of MassDEP.

MassDEP encourages parties with liability under M.G.L. c. 21E to take prompt action in response to releases and threats of release of oil and/or hazardous material. By taking prompt action, you may significantly lower your assessment and cleanup costs and avoid the imposition of, or reduce the amount of, certain annual compliance fees for response actions payable under 310 CMR 4.00.

If you have any questions relative to this notice, you should contact the undersigned at the letterhead address or (978) 694-3386. All future communications regarding this release must reference the Release Tracking Number **(RTN) 3-32875** contained in the subject block of this letter.

Sincerely,

Ida Babroudi

Ida Babroudi
Environmental Engineer
Bureau of Waste Site Cleanup
MassDEP, Northeast Regional Office

cc: Board of Health, City of **Haverhill**, Ms. Donna A. Leone
"via electronic submittal", bdufresne@cityofhaverhill.com

MassDEP data entry/file (NOR / Issued)

APPENDIX B

Lessard Environmental, Inc. Draft Phase I/II Environmental Site Assessment, 284 Winter Street, Haverhill, MA, dated December 2014 (Text and Figures)

Lessard Environmental, Inc.

Innovative Solutions ♦ Effective Results ♦ Professional Relationships

PHASE I II
ENVIRONMENTAL SITE ASSESSMENT

Privileged and Confidential Attorney Consultant DRAFT Work Product

284 Winter Street
Haverhill MA

Prepared for:

Energy North Group
1700 Shawsheen Street 2nd l
Tewksbury MA 01876-1550

Prepared by:

Lessard Environmental Inc
100 Cummings Center
Suite 229C
Beverly MA 01915

December 2014

LEI Project @ 2249

2014 Lessard Environmental Inc

Massachusetts ♦ Rhode Island ♦ New Jersey

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1. EXECUTIVE SUMMARY

At the request of the Energy North Group, ***Lessard Environmental Inc.*** (LEI) has completed a Phase I Environmental Site Assessment (ESA) and Phase II Limited Site Investigation (LSI) for the property identified as 284 Winter Street in Haverhill, Massachusetts, herein referenced as the "subject Property" or the "Property". The purpose of the ESA is to evaluate the subject Property history, current conditions and use, as well as past and current uses of surrounding properties to identify potential recognized environmental conditions (RECs) in accordance with ASTM International Practice *E1527-13*. A LSI was subsequently performed to further evaluate RECs.

A REC was identified during the Phase I process of evaluating historical records for past usage of the Property. Sanborn Maps indicated the Property was a gas and light generation facility from circa 1886 through circa 1970. Features identified on the Sanborn maps indicate numerous areas of potential RECs (potential source of contamination areas) across the Property.

The earliest Sanborn map (1886) indicates "The Haverhill Gas Works" consisted of coal sheds, two (2) "gas holders" (round above ground storage tanks), a building labeled "purifier" and a railroad siding, presumably to deliver coal to the facility. The operation expanded in 1893 to include an oil pump house, a "pump" and a condenser. The 1906 map shows expansion of the oil house. The 1949 map shows a "purifier pit", 2 additional round oil aboveground tanks (24′ and 26′) and three (3) rectangular (presumably underground) oil tanks. The 1954 and 1961 maps are similar to the 1949 map with the addition of a "tar separator" on the 1954 map. All structures except three (3) are gone on the 1971 map: an office and stock room; an "eng room" and a 35′ round oil tank.

Additional historical information regarding RECs was provided in Haverhill Fire Department records. An application for license for USTs was first granted to "Haverhill Gas Co." in 1976 for 100,000-gallons of underground storage (60,000-gallons gasoline and 40,000-gallons fuel oil). An index card indicates three (3) 19,000-gallon fiberglass tanks (gasoline) and two (2) 19,000-gallon fiberglass tanks (fuel oil) were installed in April 1977 at Haffner's Service Station's Inc. An undated hand-drawn map titled

"Proposed Car Wash and Gasoline Service Station" for Haffner's Car Care Corp., indicates the round above ground storage tank depicted on the Sanborn Maps between 1886 and 1961 is still present and is labeled as an "existing 200,000-gal fuel oil storage tank". Available records did not indicate when this tank was removed but it appears to have been removed when Haffner's owned the Property (it was not present in November).

The LSI conducted in November 2014 consisted of the drilling of three (3) soil borings (completed as groundwater monitoring wells) drilled to maximum depths of between 15- and 22- feet below ground surface. Two (2) soil samples and three (3) ground water samples were submitted for laboratory analysis. The drilling was conducted prior to a review of the Sanborn Maps and Fire Department records and the borings were placed in proximity to the current USTs (installed in 1977), dispenser island and fuel oil loading rack. The boring/monitoring well placement relative to key features on the Sanborn maps indicate B-1/MW-1 was installed between the two (2) large above ground storage tanks, B-2/MW-2 was installed within the footprint of the "water gas plant" and B-3/MW-3 is to the east of the former coal shed.

A very strong "naphthalene" or mothball odor was observed during drilling activities in November. Laboratory analysis of soil samples submitted from Boring B-1 and ground water samples collected from MW-1 and MW-2 indicated concentrations of volatile petroleum hydrocarbons (VPH) and polynuclear aromatic hydrocarbons (PAHs) at concentrations above reporting criteria. The source of the VPH detected in the ground water samples from MW-1 is not clear and could be from the current USTs and/or the past use of the Property. The source of the PAH compounds detected are most likely associated with the former use of the Property as a gas & light company and not from the USTs installed in 1977. No metals or PCBs were detected in the one (1) soil sample submitted.

Additional assessment of other areas of the property and additional analysis of other suites of potential chemicals of concern are needed to evaluate the full extent of contamination at this Property. Two (2) particular concerns for ENG include:

> The management of soil and groundwater during UST replacement activities that are required by 2017.

If the source of contamination is confirmed as historical use, assessment and remediation costs may not be fully 21J (reimbursement) eligible.

2. INTRODUCTION

At the request of the Energy North Group, ***Lessard Environmental Inc.*** (LEI) has completed a Phase I ESA and Phase II LSI for the property identified as 284 Winter Street, Haverhill, Massachusetts, herein referenced as the "subject Property" or the "Property". This was conducted in general conformance with ASTM International's *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, E1527-13* and *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process, E1903-11.*

2.1. Purpose

The goal of the ESA/LSI process is to evaluate whether recognized environmental conditions exist at the subject Property, and if necessary, further evaluate subsurface conditions relative to the identified RECs. The term RECs is defined in the ASTM International Standard as:

> "The presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment."

Other important terms that are defined in the ASTM guideline are *historical recognized environmental condition* (HREC) and *conditional recognized environmental condition* (CREC).

HREC means a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls

CREC means a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.

2.2. Detailed Scope of Services

This ESA/LSI has been conducted in the manner of ASTM International's *E1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* and *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process (E1903-11)* and contains at a minimum:

A summary of historical uses of the subject Property, particularly those uses that may have involved environmental contaminants or pollutants;
A summary of environmental permits and compliance history, including a review of all relevant US Environmental Protection Agency (EPA) databases, MA DEP databases, Municipal Engineering Department, City Clerk, Fire Prevention Office, and other resources, as necessary;
A summary of readily available records;
Subject Property description including location, approximate size, mapped zoning, utilities, hydrology, and proximity to other properties;
A summary of adjacent land uses; and,
An evaluation of subsurface conditions relative to the RECs identified during the ESA portion of the investigation.

The ESA/LSI consists of the following four (4) tasks:

Records Review - Both state and federal databases were reviewed and local records were reviewed to identify historical information pertaining to past ownership and use of the subject Property. The objective of the records review was to obtain and evaluate records that may identify RECs in connection with the subject Property.

Site Reconnaissance – A reconnaissance of the Property was conducted on November 24, 2014. The objective of the reconnaissance was to obtain information indicating the likelihood of identifying RECs in connection with the subject Property.

Subsurface Assessment – A subsurface assessment consisting of the collection of soil and/or groundwater samples was performed at the subject Property.

Report – A combined ESA/LSI report was prepared detailing the findings and conclusions of the assessment process.

2.3. Significant Assumptions

No significant assumptions have been made for the purposes of preparing this report with the exception of the inferred groundwater flow direction. Based on elevation and topography, the general groundwater flow direction is assumed to be to the southwest.

According to the standard practice outline in *ASTM E 1527-13, Section 8,* the owner and/or environmental professional is not obligated to identify mistakes or insufficiencies in the record information provided. However, a reasonable effort has been made to compensate for mistakes or insufficiencies in the information reviewed that are obvious in the light of other information.

2.4. Limitations and Exceptions

This work was undertaken to assess environmental conditions on the subject Property in accordance with generally accepted engineering and hydrogeological practices. No other warranty, express or implied, is made. Absolute assurance that any and all possible contamination at the subject Property was identified cannot be provided.

Conclusions are based, in part, on information provided by the client, their agents, or third parties, including state or local officials. LEI assumes no responsibility for the accuracy and completeness of this information. Where visual observations are included in the report, they represent conditions at the time of the inspection, and may not be indicative of past or future subject Property conditions.

LEI makes no representation concerning the legal significance of its findings or the value of the property investigated. LEI has no contractual liabilities to third parties for the information or opinions obtained in this report. This report is not intended to satisfy the requirements of the National Contingency Plan (NCP) or state and local regulations.

All of the federal, state, and tribal environmental record sources were reviewed using an independent electronic database search company. No assurances can be made on the locations of identified sites as the database search company has placed them.

The scope of work for this report is in general conformance with ASTM International's *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, E1527-13* and *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process, E1903-11.* This scope of work *does not* include evaluation of current or past buildings or structures for the presence of asbestos, lead paint or PCB contamination related to building materials. These materials, if present, can substantially complicate building renovation or demolition and can adversely impact the occupancy of a building.

2.5. Special Terms and Conditions

There were no special terms or conditions related to this ESA/LSI report.

2.6. User Reliance

This report was completed by LEI, for the sole use of our client and/or lending institutions in connection with an assessment of subject Property environmental conditions. Use of the report by any other person for any other purpose is not authorized except with the prior written consent of LEI.

3. SUBJECT PROPERTY DESCRIPTION

3.1. Location

The subject Property is located at 284 Winter Street in Haverhill, Massachusetts, opposite the intersection of Winter Street and Stevens Street. The location of the subject Property is depicted on the Site Locus (**Figure 1**). Approximate coordinates of the subject Property are 42˚ 46′ 39.00″North Latitude and 71˚ 5′ 15.36″ West Longitude. The Universal Transverse Mercator (UTM) coordinates in Zone 19 are 329222.7 Easting and 4738006.0 Northing.

3.2. Subject Property and Vicinity Characteristics

The subject Property occupies approximately 1.163-acres. Approximately 95 of the Property is improved with a kiosk and gasoline dispenser islands situated beneath a canopy, an automated car wash, a fuel oil loading rack for No. 2 fuel oil, asphalt pavement and the concrete pad covering the six (6) USTs. The remainder of the Property consists of landscaped areas. A Site Layout of the subject Property is presented as **Figure 2**.

Land use in the vicinity of the Property primarily consists of a combination of industrial, commercial, and residential use. The subject Property is bound by Winter Street to the north, across which is a vacant industrial mill complex; to the east by an active railroad right-of way, beyond which is a residential apartment complex; and to the south and west by the Little River, beyond which are commercial and residential buildings.

Vehicular access to the subject Property is available from Winter Street. Potable water is provided by the Haverhill municipal water system and sewage is discharged to the Haverhill municipal sewer system. Electrical, natural gas, and telephone service connects to the subject Property building(s) via underground lines, which enter the Property from Winter Street.

3.3. Current Use of the Subject Property

The subject Property is currently utilized as a retail gasoline station, an automated car wash facility, and a fuel oil distribution facility. Six (6) multi-product dispensers and two (2) diesel dispensers are located beneath a canopy situated west of the UST area.

One (1) fuel oil loading rack for No. 2 fuel oil is located along the exterior east wall of the automated car wash building.

4. OWNER PROVIDED INFORMATION

4.1. Owner, Property Manager, and Occupant Information

LEI provided a User Questionnaire to Energy North Group and a separate questionnaire to Mr. Joseph Derry, Manager/President of Haffner's Service Stations Inc. The subject Property is currently owned by Haffner Realty Trust. A copy of both completed questionnaires is included as **Appendix A**.

4.2. Reason for Performing ESA

The purpose of performing this ESA/LSI is to facilitate a real estate transaction.

5. RECORDS REVIEW

5.1. Standard Environmental Record Sources

LEI contracted Environmental Data Resources Inc. (EDR®) to provide a federal, state, and tribal database search relative to sites located within the vicinity of the subject Property. **Table 1** summarizes the total number of properties identified by EDR within the recommended search distances. The complete EDR® *Radius Map™ Report with GeoCheck®* is provided in **Appendix B**.

Table 1 – Radius Map Report Summary

Standard Environmental Record Sources	Minimum Search Distance miles)	Subject Property	Number of Sites within Search Distance miles)				
			<1/8	1/8 to	to1/2	1/2 to 1	Total
Federal NPL	1.0	No	0	0	0	0	0
Federal De-listed NPL	0.5 (1.0)	No	0	0	0	-	0
Federal CERCLIS	0.5	No	0	1	0	-	1
Federal CERCLIS NFRAP	0.5	No	0	2	0	-	2
Federal RCRA CORRACTS	1.0	No	0	0	0	0	0
Federal RCRA TSD	0.5	No	0	0	0	-	0
Federal RCRA-Generators	Property/adjoining only (0.25)	No	4	5	-	-	9
Federal Institutional/ Engineering Control	Property Only (0.5)	No	0	0	0	-	0
Federal ERNS	Property Only	No	-	-	-	-	0
State & Tribal Sites (SHWS)	1.0	No	3	17	26	43	89
State & Tribal Landfills (SWF)	0.5	No	0	0	0	-	0
State & Tribal LUST/LAST	0.5	No	1	8	16	-	25
State & Tribal UST/AST	Property/adjoining only (0.25)	Yes	2	7	-	-	10
State Institutional/ Engineering Control (AUL)	Property Only (0.5)	No	1	5	3	-	9
State & Tribal VCP	0.5	No	0	0	0	-	0
State & Tribal Brownfields	0.5	No	0	0	0	-	0

5.1.1. Federal Records

National Priority List (NPL)

No Federal NPL sites were identified within a 1-mile radius of the subject Property. Additionally, there are no de-listed NPL sites located within a 0.5-mile radius of the subject Property.

Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) and No Further Remedial Action Planned (NFRAP)

There is one (1) Federal CERCLIS site identified within 0. 5-miles of the subject Property. Haverhill Salvage at 81 Hale Street is listed as a CERCLIS site and is located 0.2-miles north of the Property. There are two (2) NFRAP sites identified within 0. 5-miles of the subject Property. Accelerated Circuits (Former) at 104 Essex Street and Winchell Building at 17 Locust Street are both listed as NFRAP sites and are both located 0.2-miles southeast of the Property.

Resource Conservation and Recovery Information Systems (RCRIS)

There are no Federal Resource Conservation and Recovery Act (RCRA) Corrective Action Sites (CORRACTS) located within a 1.0-mile radius of the subject Property. There are no RCRA Treatment, Storage and Disposal (TSD) facilities located with a 0.5-mile radius of the subject Property. Neither the Property nor any adjoining properties are listed as RCRA generators. Nine (9) sites located within -mile of the subject Property are listed as RCRA generators; the closest being Cottman Transmission at 262 Winter Street which is 0.04-miles east of the Property.

Federal Institutional or Engineering Control Registries

The subject Property is not listed on the Federal Institutional or Engineering Control Registries.

Emergency Response Notification System (ERNS)

The subject Property is not listed in the ERNS database.

5.1.2. State and Tribal Sites

There are 20 State/Tribal (SHWS) sites identified within 0.25-miles of the subject Property. A summary of the information for the 20 State/Tribal sites within 0.25-miles of the subject Property are listed in **Table 2**.

Table 2. Summary of State/Tribal SHWS sites 0.25-miles of the Subject Property

Name	Address	Distance miles)/ Direction	Spill ID RTN)	Status
Dyetex, Inc.	14 Stevens St.	0.028 NNW	3-0020884	RAO
No Location Aid	93 Lafayette Sq.	0.104 W	3-0018974	RAO
Residence	35 Lewis St.	0.124 NNE	3-0028544	RAO
Residence	10.5 Hillside Pl.	0.128 WSW	3-0027797	RAO
No Location Aid	60-62 Locke St.	0.142 SE	3-0020718	RAONR
Automobile Dealership	150 Lafayette Sq.	0.143 WNW	3-0026906	RAO
Fmr. Tranformer Area TRC-8	62 Locke St.	0.145 ESE	3-0027349	RAO
Lafayette St.	Broadway and Hilldale	0.161 WNW	3-0011347	URAM
Fmr. Transformer Area MAI-6	50 Locke St.	0.161 SE	3-0027350	RAO
No Location Aid	Near 190 Essex St.	0.173 SSE	3-0019526	RAO
Beneath Bldg. 1	117 Essex St.	0.201 SSE	3-27997	RAONR
No Location Aid	113 Essex St.	0.205 SSE	3-0028653	RAO
Fmr. Winter St. School	165 Winter St.	0.206 E	3-0032349	UNCLASS
No Location Aid	109 Essex St.	0.210 SSE	3-0027284	RAO
No Location Aid	50-54 Locust St.	0.214 ESE	3-0024942	RAO
Accelerated Circuits Fmr.	104 Essex St.	0.231 SE	3-0000328	RAO
No Location Aid	21-25 Locust St.	0.238 SE	3-0024943	RAO
No Location Aid	13-17 Locust St.	0.245 SE	3-0025570	RAO
Haverhill Salvage	81 Hale St.	0.247 N	3-0000325	RAO
Sayers Oil Fmr.	145 Winter St.	0.249 E	3-0001527	DEPNDS

RAO is Response Action Outcome

State and Tribal Solid Waste Landfill List (SWL)

There are no solid waste landfills located within 0.5-miles of the subject Property.

Underground and Aboveground Storage Tanks

There are records for nine (9) leaking underground storage tank (LUST) sites within 0.25-miles of the subject Property as listed in **Table 3**.

Table 3. Summary of LUST sites 0.25-miles of the Subject Property

Name	Address	Distance miles)/ Direction	Spill ID RTN)	Status
Haverhill Salvage	141 Lafayette Sq.	0.141 WNW	3-0000882	RAO
Automotive Dealership	150 Lafayette Sq.	0.143 WNW	3-0027301	RAO
No Location Aid	60-62 Locke St.	0.148 ESE	3-0017252	RAO
Lafayette Sq. Gulf	2 Hilldale Ave.	0.162 WNW	3-0002512	RAO
Gas Station Fmr.	174 Winter St.	0.189 E	3-0003461	RAO
No Location Aid	38 Lancaster St.	0.199 NNE	3-0021953	RAO
Hayes Building	14 Granite St.	0.254 SE	3-0028733	RAO
Hayes Building	14-44 Granite St.	0.254 SE	3-0028983	RAO
Fmr. Teds Tires	57 Granite St.	0.255 SSE	3-0000642	TMPS

In addition to the Property, there are two 2) locations with registered USTs located within 1/8-miles of the subject Property as listed in **Table**

Table 4. Summary of Registered UST sites 1/8-miles of the Subject Property

Name	Address	Distance miles)/ Direction
Dyetex Inc	14 Steven St.	0.028 NNW
Bradford Towing	221 Essex St.	0.123 S

State and Tribal Institutional/Engineering Control

There are no Institutional Controls or Engineering Controls on the subject Property.

State and Tribal Voluntary Cleanup Sites (VCS)

There are no VCS sites within a 0.5-mile radius of the subject Property.

State Tribal Brownfield Sites

There no Brownfield Sites listed within 0.5-miles of the subject Property.

5.2. Physical Setting

According to the 1987 USGS topographic map (Haverhill, MA Quadrangle); the subject Property is located at an approximate elevation of 24-feet above mean sea level. The majority of the Property is level and even with street grade, then sloping slightly to the west-southwest.

The Property is serviced by municipal water service and municipal sewer system. According to the MA DEP Geographical Information System (MassGIS), the nearest

municipal water supply is situated greater than 0.5-miles from the Property. The closest surface water body and associated wetlands is the Little River which abuts the Property to the west and south. Little River discharges into the Merrimack River approximately 0.25-miles to the south.

According to a MA DEP Site Scoring Map (**Figure 3**), the Property is not located within a MA DEP approved Wellhead Protection Area (Zone II), within 500-feet of any Interim Wellhead Protection Areas, Zone A of a Class A Surface Water Body, Sole Source Aquifer, or High Yield or Medium Yield Aquifers. The Little River abuts the subject Property to the west and south. No private supply wells are known to exist within 500-feet of the Property. The Property is not located within a FEMA 100-year flood plain.

5.3. Historical Use Information of the Property

In addition to the standard environmental records sources provided by EDR®, on December 3, 2014, records were obtained regarding the subject Property from the City of Haverhill departments and commissions. EDR® provided Sanborn Fire Insurance Maps, historical topographical maps, aerial photographs and street directories were also reviewed. Details pertaining to the historical use of the subject Property obtained during this file review are summarized on the following pages.

5.3.1. Assessor's Office

A copy of the Assessor's card is included in **Appendix C** and it's information is summarized as follows in **Table 5**. The subject Property is situated in an area zoned Industrial General (IG).

Table 5. Summary of Assessor's Cards

	284 Winter Street
Owner	Haffner Realty Trust
Land Area	1.163-acres
Building Area	3,900-square feet
Zoning	Industrial - General Use (IG)
Building Use	Car wash
Heat Source	Electric
Construction Date	1976
Map/Block/Lot	307/2/1
Deed reference	Bk. 6304; Pg.656; Date unk

5.3.2. *Water Department*

According to information provided by the Water Department, the Property and area are connected to municipal water and sewer.

5.3.3. *Board of Health*

Personnel at the Haverhill Board of Health (BOH) stated no private drinking water wells are located in the area.

5.3.4. *Fire Department*

Information regarding USTs was requested in writing from the Haverhill Fire Department (HFD). The HFD provided a copy of their records which indicated "Licensed Tankage Storage" for 106,000-gallons was issued November 5, 1976 and according to the 2013 FP-290 form, five (5) USTs were installed in May 1977, and one (1) UST was installed in August 1983. In 1977, the types of petroleum included 40,000-gallons of No. 2 fuel oil and 60,000-gallons of gasoline. The sixth UST (a 6,000-gallon UST for diesel) was added in 1983. The following information in **Table 6** was confirmed on the MA DEP UST Query Tool Results Page.

Table 6 - USTs

	Volume gallons)	Contents	Tank Type	Date Installed
1	20,000	Gasoline	SW	1977
2	20,000	Gasoline	SW	1977
3	20,000	Gasoline	SW	1977
4	20,000	Fuel Oil	SW	1977
5	20,000	Fuel Oil	SW	1977
6	6,000	Diesel	SW	1983

SW - Single walled tank DW – Double walled tank

According to the 2013 FP-290, all six (6) tanks and piping were tightness tested in August 2013. Additional HFD records indicate that the most recent application for a Permit to Maintain an Existing UST facility was dated January 2, 2014 and is scheduled to expire on February 28, 2015. A copy of HFD-provided records is included in **Appendix C.**

5.3.5. *Fire Insurance Maps*

EDR®-provided seven (7) historical Sanborn Fire Insurance Maps dated 1886, 1893, 1906, 1949, 1954, 1961, and 1971 and are included in EDR®'s *Certified Sanborn® Map Report* in **Appendix B.** The 1886, 1893, 1906, 1949, 1954, and 1961 maps depict the subject Property as an active gas and light generation facility (Haverhill Gas Light Company) with fuel oil ASTs, coal sheds, gasification tanks and/or pits, and associated support buildings. The 1971 map depicts the Property as being vacant with the exception of former coal bins located adjacent to the railroad right-of-way, an approximately 200,000-gallon fuel oil AST in the southern portion of the subject Property, and an office building along the western Property line.

5.3.6. *Aerial Photographs*

EDR®-provided 14 historical aerial photographs dated 1953, 1969, 1971, 1978, 1985, 1993, 1995, 1998, 2006, 2008, 2009,2010, 2011, and 2012, and are included in EDR®'s *Aerial Photo Decade Package* in **Appendix B**. The 1953 and 1969 photos depict the Property as the location of a gas and light generation facility. The 1971 photo depicts the Property as being vacant with the exception of former coal bins located adjacent to the railroad right-of-way and an approximately 200,000-gallon fuel oil AST in the southern portion of the subject Property. Both structures were formerly associated with the gas and light generation facility. The remaining photos depict the subject Property in its existing configuration as a gasoline station/car wash facility.

5.3.7. *Registry of Deeds and Ownership History*

The deed referenced on the Assessor's Card was not accessible on-line at the Southern Essex Registry of Deeds.

5.3.8. *Historical Topographic Maps*

EDR®-provided 10 Historical Topographic Maps dated 1893, 1935(2), 1943, 1955, 1956, 1972, 1977, 1985 and 1987. No significant changes to topography in the area of the Property were indicated by the maps. The maps are included in EDR®'s *Historical Topographical Map Report* included in **Appendix B**.

5.3.9. *MA DEP Records*

No MA DEP records were available for the subject Property.

5.3.10. City Directories

EDR®'s *City Directory Image Report* provides listings for the subject Property and adjoining properties for a search of records at 5-year intervals from 1986 to 2013. Haffner's Service Station is listed at 284 Winter Street between 1986 and 2013. A copy of the *City Directory Image Report* is included in **Appendix B**.

5.4. Historical Use Information of Adjoining Properties

LEI evaluated the history of the properties adjoining the subject Property, from sources noted previously. According to available resources, the adjoining properties have been utilized for the following:

The parcel to the to the east (across the railroad-right-of-way) at 262 Winter Street has been an automotive car repair facility (Don's Garage or Aamco Transmissions) in directories 1986 through 2013;

The parcel to the north (across Winter Street) at 265 Winter Street has been developed since 1906 and was a meat packing facility between 1986-1999 and the City Directory indicates that address has been associated with a roofing contractor between 2008 and 2013; and,

A currently vacant multi-story brick building at 14 Stevens Street is identified as a woolen mill in 1906, and as Pentucket Mill in 1949.

6. SITE RECONNAISSANCE

On November 24, 2014, a reconnaissance was conducted at the subject Property. Findings of the reconnaissance are provided below. A Site Layout is provided as **Figure 2**.

6.1. Methodology and Limiting Conditions

The purpose of the reconnaissance is to inspect the subject Property for evidence of RECs that, currently or historically, are likely to adversely affect the property. All readily accessible portions of the subject Property were visually inspected. The periphery of the subject Property was viewed from all adjacent public thoroughfares. Pertinent subject Property photographs are included in **Appendix D**.

6.2. General Site Setting

The subject Property occupies approximately 1.163-acres of land and is irregular in shape. The subject Property is bound by Winter Street to the north, across which is a vacant industrial mill complex; to the east by an active railroad right-of way, beyond which is a commercial building and a residential apartment complex; and, to the south and west by the Little River, beyond which are commercial and residential buildings.

6.3. Exterior Observations

The subject Property is generally level and even with street grade (**Photo 1**). The Property is improved with two (2) structures: a single story cashier kiosk in the dispenser island area situated beneath a canopy **Photo 2)** and an automated car wash. The dispenser island/kiosk is located west of the UST area. The automated car wash building is located east of the UST area and adjacent to the active railroad right-of-way. Six (6) USTs with a total capacity of 106,000-gallons of petroleum products (see **Table 6**) are located between the kiosk/dispenser island area and the automated car wash building. A fuel oil loading rack for No. 2 fuel oil utilized for dispensing fuel oil into delivery trucks is located along the eastern exterior wall of the automated car wash building (**Photo 3**). Approximately 95 of the Property is improved with a kiosk and gasoline dispenser islands situated beneath a canopy, an automated car wash, a fuel oil loading rack for No. 2 fuel oil, asphalt pavement and the concrete pad covering the six (6) USTs. The remainder of the Property consists of landscaped areas.

Several stormwater drainage catch basins were observed on the Property and appear to either discharge to sewer lines situated in Winter Street or directly into the Little River which abuts the subject Property to the west and south.

The car wash recirculation tank(s) for the automated car wash building are located beneath the footprint of said building.

Fill and vapor recovery ports for the six (6) USTs are located within the concrete UST pad. The vent pipes for the USTs are situated along the western exterior wall of the automated car wash building.

The concrete pad covering the USTs and in the vicinity of the dispenser island appeared to be in fair to poor condition with several cracks located throughout. The Positive Limiting Barrier (PLB) was observed to be filled with dirt and debris. Some minor staining of the asphalt pavement, consistent with Property use was observed, and the pavement was observed to be in fair to poor condition. A "grit pit", utilized to dry grit removed during car wash cleanings is located southeast of the automated car wash entrance. The grit enclosure is constructed of a concrete pad with 2-foot high concrete walls on three (3) sides.

No pits, ponds or lagoons were identified on the Property. The Little River abuts the subject Property to the west and south.

6.1. Utilities

The subject Property is connected to the municipal water service, with supply lines in Winter Street, and the municipal sewer system, also with sewer lines in Winter Street. There are also two car wash water supply wells located on the Property. One (1) car wash well is located to the north west of the car wash building and the second is located to the southeast of the car wash building (**Photo 4**).

Electrical, natural gas, and telephone service connects to the automated car wash building and kiosk via underground lines, which enter the Property from Winter Street.

A pad mounted transformer was observed along the eastern Property line adjacent to the railroad right-of-way.

6.2. Interior Observations

The kiosk building consists of a single story structure built on a concrete slab foundation. The interior of the kiosk building contains a cashiers area and bathroom. The interior of the automated car wash building was inspected and consists of the car wash mechanical systems, soaps, degreasers and detergents, recirculating tanks, filters and storage areas.

7. INTERVIEWS

7.1. Interview with Subject Property Owner/Operator

LEI provided a User Questionnaire to Energy North Group and a separate questionnaire to Mr. Joseph Derry of Haffner's Service Stations, Inc. as stated in *Section 4*. No other interviews were conducted with the owner or operator.

7.2. Interview with Local Officials

No local government officials were specifically interviewed with respect to the information provided in this Phase I ESA. Records obtained from local departments are summarized in *Section 5* of this report and copies of the records are included in **Appendix C**.

7.3. Interview with Others

No other interviews were performed as part of this Phase I ESA.

8. PHASE II ENVIRONMENTAL INVESTIGATION

Soil and groundwater sampling activities were conducted at the subject Property to investigate the RECs at the Property identified in the Phase I ESA. LEI's efforts primarily focused on the evaluation of subsurface conditions at the site as a whole relative to the presence of former and current USTs, dispenser islands and overall past and present Property usage.

8.1. Soil Sampling

On November 24 and 25, 2014, three (3) soil borings were advanced at the subject Property utilizing the hollow stem drilling method after each location was pre-cleared to a depth of 4-feet utilizing an air knife/vacuum excavator unit. Boring B-1 was advanced south of the UST area, boring B-2 was advanced west of the dispenser island, and boring B-3 was advanced southeast of the bulk fuel dispenser. Borings B-1, B-2 and B-3 were completed as 2-inch diameter groundwater monitoring wells. Refer to **Figure 2** for boring/monitoring well locations, and complete boring logs/monitoring well construction reports are included in **Appendix E.**

Soil samples from each soil boring were collected at 5-foot depth intervals and were screened in the field for Total Organic Volatiles (TOVs) with a photo-ionization detector (PID) calibrated with an isobutylene gas standard for a response equivalent to benzene. Screening results are included in **Table 7**.

Table 7 - Soil Screening Data
November 24, 2014

Sample ID	Depth feet)	TOVs ppmv)
B1	5-7′	98.9
B1 *	10-12′	1,128
B1	15-15.5′	668
B2	5-7′	136
B2	10-12′	156
B2	15-17′	465
B3	5-7′	4.2
B3	10-12′	19.8
B3 *	15-17′	250
B3	20-22′	13.5

*Samples submitted for laboratory analysis.

Select soil samples collected from borings B-1 and B-3 were submitted for laboratory analysis for Volatile Petroleum Hydrocarbon (VPH) and one (1) soil sample from boring

B-1 was submitted for laboratory analysis of Extractable Petroleum Hydrocarbons (EPH) via MA DEP methodology. A trip blank was also submitted for analysis. Soil analytical results are summarized in **Table 8** and compared to the applicable 2014 MA DEP Reporting Criteria (RCS-1 and/or RCS-2). Complete laboratory reports are included as **Appendix F**.

Table 8 – Soil Analytical Results
November 24, 2014

Sample ID	**B-1**	**B-3**	***RCS-1***	***RCS-2***
Depth (feet)	10-12′	15-17′		
VPH				
C_5-C_8 Aliphatics	< 1,000	< 20	*100*	*500*
C_9-C_{12} Aliphatics	**2,000**	150	*1,000*	*3,000*
C_9-C_{10} Aromatics	<1,000	**150**	*100*	*500*
Methyl tert-butyl ether	< 20	< 0.5	*0.1*	*100*
Benzene	**190**	< 0.2	*2*	*200*
Toluene	**230**	< 0.2	*30*	*1,000*
Ethylbenzene	23	< 0.2	*40*	*1,000*
Total Xylenes	**320**	< 0.4	*100*	*100*
Naphthalene	**2,900**	2.8	*4*	*40*
EPH				
C_9-C_{18} Aliphatics	< 200	NA	*1,000*	*3,000*
C_{19}-C_{36} Aliphatics	250	NA	*3,000*	*5,000*
C_{11}-C_{22} Aromatics	**4,000**	NA	*1,000*	*3,000*
Naphthalene	**1,200**	NA	*4*	*20*
2-Methynaphthalene	**570**	NA	*0.7*	*80*
Acenaphthylene	**310**	NA	*1*	*10*
Acenaphthene	**34**	NA	*4*	*3,000*
Fluorene	180	NA	*1,000*	*3,000*
Phenanthrene	**550**	NA	*10*	*1,000*
Anthracene	150	NA	*1,000*	*3,000*
Fluoranthene	180	NA	*1,000*	*3,000*
Pyrene	320	NA	*1,000*	*3,000*
Benzo(a)anthracene	**87**	NA	*7*	*40*
Chrysene	**73**	NA	*70*	*400*
Benzo[b]fluoranthene	**80**	NA	*7*	*40*
Benzo[k]fluoranthene	26	NA	*70*	*400*
Benzo[a]pyrene	**110**	NA	*2*	*7*
Indeno[1,2,3-cd]pyrene	**38**	NA	*7*	*40*
Dibenz[a,h]anthracene	**11**	NA	*0.7*	*4*
Benzo[g,h,i]perylene	50	NA	*1,000*	*3,000*

Results presented in milligrams per kilogram (mg/kg) or parts per million (ppm).
NA is not analyzed.
Compounds detected above Reportable Concentrations (RCS-1) are in bold.

As indicated in **Table 8**, six (6) VPH compounds (C9-C12 Aliphatics, C9-C10 Aromatics, benzene, toluene, total xylenes, and naphthalene) and 12 EPH compounds (C11-C22 Aromatics, Naphthalene, 2-Methynaphthalene, Acenaphthylene, Acenaphthene,

Phenanthrene, Benzo(a)anthracene, Chrysene, Benzo[b]fluoranthene, Benzo[a]pyrene, Indeno[1,2,3-cd]pyrene, and Dibenz[a,h]anthracene) were detected at concentrations above MA DEP RCs. RCS-1 Criteria applies to this Property since residential properties are located within 500-feet of the subject Property.

8.2. Groundwater Sampling

Borings B-1, B-2 and B-3 were completed as 2-inch diameter groundwater monitoring wells MW-1, MW-2 and MW-3, respectively. Refer to **Figure 2** for monitoring well locations and the Boring Logs in **Appendix E** for well construction details. On December 1, 2014, prior to sampling, each well was gauged for depth to product, if detected, depth to water and total well depth utilizing an Interface Probe. A summary of gauging data is provided as follows in **Table 9**.

Table 9 – Groundwater Gauging Data

Well ID	Date	Depth to Product ft.)	Depth to Water ft.)	Total Well Depth ft.)
MW-1	12/1/2014	ND	3.20	12.46
MW-2	12/1/2014	ND	12.70	14.91
MW-3	12/1/2014	ND	12.81	18.15

ND is not detected

Subsequent to gauging, each well was purged of approximately three (3) well volumes of groundwater utilizing dedicated disposable polyethylene bailers and allowed to stabilize prior to sample collection. On December 1, 2014, representative groundwater samples were then collected from each well and were submitted for laboratory analysis of VPH. A ground water sample from MW-1 was also submitted for laboratory analysis of EPH. A summary of the groundwater analytical results are included in **Table 10** and the laboratory report associated with groundwater sampling is included in **Appendix F**.

Table 10 - Groundwater Analytical Data

Sample ID	MW-1	MW-2	MW-3	*RCGW-1*	*RCGW-2*
Date Sampled	**12/1/14**	**12/1/14**	**12/1/14**		
VPH					
C_5-C_8 Aliphatics	<10,000	<10,000	910	*300*	*3,000*
C_9-C_{12} Aliphatics	<10,000	**20,000**	710	*700*	*5,000*
C_9-C_{10} Aromatics	<10,000	**11,000**	1,000	*200*	*4,000*
MTBE	<500	<500	<5	*70*	*5,000*
Benzene	**16,000**	400	15	*5*	*1,000*
Toluene	2,500	430	2.1	*1,000*	*40,000*
Ethylbenzene	510	**7,000**	2.8	*700*	*5,000*
Xylenes	1,150	**6,300**	15	*3,000*	*3,000*
Naphthalene	**8,200**	**11,000**	350	*140*	*700*
EPH					
C_9-C_{18} Aliphatics	610	NA	NA	*700*	*5,000*
C_{19}-C_{36} Aliphatics	1,500	NA	NA	*14,000*	*50,000*
C_{11}-C_{22} Aromatics	2,900	NA	NA	*200*	*5,000*
Naphthalene	**3,100**	NA	NA	*140*	*700*
2-Methynaphthalene	590	NA	NA	*10*	*2,000*
Acenaphthylene	**130**	NA	NA	*30*	*40*
Acenaphthene	35	NA	NA	*20*	*6,000*
Fluorene	**91**	NA	NA	*30*	*40*
Phenanthrene	230	NA	NA	*40*	*10,000*
Anthracene	**59**	NA	NA	*30*	*30*
Fluoranthene	79	NA	NA	*90*	*200*
Pyrene	**110**	NA	NA	*20*	*20*
Benzo(a)anthracene	35	NA	NA	*1*	*1,000*
Chrysene	38	NA	NA	*2*	*70*
Benzo[b]fluoranthene	24	NA	NA	*1*	*400*
Benzo[k]fluoranthene	<10	NA	NA	*1*	*100*
Benzo[a]pyrene	27	NA	NA	*0.2*	*500*
Indeno[1,2,3-cd]pyrene	13	NA	NA	*0.5*	*100*
Dibenz[a,h]anthracene	<10	NA	NA	*0.5*	*40*
Benzo[g,h,i]perylene	17	NA	NA	*20*	*20*

Results presented in microgram per liter (ugL) or parts per billion (ppb)
NA is not analyzed.
Compounds detected above RCGW-2 are in bold.

As indicated in **Table 10**, six (6) VPH compounds (C9-C12 Aliphatics, C9-C10 Aromatics, Benzene, Ethylbenzene, Total Xylenes, and Naphthalene) and four (4) EPH compounds (Naphthalene, Acenaphthylene, Fluorene, and Pyrene) were detected at concentrations above MA DEP Reportable Concentrations (RCs). Since the Property is not located within a Current or Potential Drinking Water Source Area, RCGW-1 is not applicable to the Property. Concentrations detected were compared to RCGW-2 Criteria.

9. FINDINGS

At the request of Energy North Group, LEI has completed an ESA for the Property located at 284 Winter Street, Haverhill, Massachusetts. The purpose of the ESA is to evaluate the subject Property history, current conditions and use, and past and current uses of surrounding properties to identify potential RECs, and where applicable, provide the knowledge necessary to satisfy the requirements of Limited Liability Protection (LLP) under CERCLA.

LEI personnel completed an historical evaluation of the subject Property with information acquired from the City of Haverhill departments and commissions. Sanborn Fire Insurance Maps, City Directories and historical maps and photos were also reviewed.

The following RECs were identified at the subject Property:

The presence of six (6) petroleum product USTs and associated underground piping on the subject Property;
Historical Property use as a gasoline service station for approximately 38 years; and,
Historical Property use as a gas and light generation facility from circa 1886 through circa 1970.

Phase II LSI activities were conducted to assess soil and groundwater conditions at the subject Property, relative to the potential RECs. The following conditions were observed.

VPH and EPH compounds were detected in both soil samples collected at concentrations exceeding the applicable MA DEP Notification Values.
VPH and EPH compounds were detected in two (2) of the groundwater samples collected at concentrations exceeding the applicable MA DEP Notification Values.

10. OPINION AND CONCLUSIONS

LEI has performed a Phase I and II Environmental Site Assessment/Limited Site Investigation in general conformance with the scope and limitations of ASTM Practice *E1527-13* and *E1903-11* of 284 Winter Street, the Property. Any exceptions to, or deletions from, this practice are described in *Section 11* of this report. This assessment has revealed evidence of RECs in connection with the Property that require additional assessment.

The Phase II LSI revealed petroleum-related compounds in soil samples collected from borings advanced on the Property and concentrations of petroleum-related compounds in groundwater were observed at monitoring well locations at concentrations above the applicable MA DEP reporting limits. The concentrations detected meet the 120-day notification criteria for reporting a release of oil to the MA DEP.

The identification of a prior use of the Subject Property as a manufactured gas plant is significant. Additional assessment of this HREC is necessary.

11. DEVIATIONS

There were no deviations in the performance of this ESA from ASTM International's *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, E1527-13* and *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process, E1903-11*, other than the following:

> Historical atlases and Deeds were not obtained for the subject Property and surrounding area. Historical aerial photographs, Sanborn maps and historical topographic maps were adequate in identification of development and activities of areas encompassing the subject Property.

12. REFERENCES

ASTM International. *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process,* Designation: E1527-13, published by ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA, 19428-2959.

ASTM International. *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process,* Designation: E1903-11, published by ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA, 19428-2959.

Environmental Data Resources Inc. Target Property: 284 Winter Street Haverhill, MA.

The EDR Radius Map™ Report with GeoCheck®. November 19, 2014.

Certified Sanborn® Map Report. November 19, 2014.

Historical Topographical Map Report. November 19, 2014.

Aerial Photo Decade Package. November 20, 2014.

The EDR –City Directory Image Report. November 21, 2014.

Massachusetts Department of Environmental Protection:

Cleanup of Sites and Spills http://public.dep.state.ma.us/SearchableSites2/Search.aspx
MA DEP UST Query Tool: http://public.dep.state.ma.us/UST/ustQueryPage.asp
Massachusetts Geographical Information System (MassGIS):
http://maps.massgis.state.ma.us/images/dep/omv/mcpviewer.htm

Site Reconnaissance, Williamson Environmental LLC personnel, November 24, 2014.

City of Haverhill:

Assessor's Office
Board of Health Department
Public Works/Engineering/Water/Building
Conservation Commission
Clerk's Office
Fire Department

City of Haverhill Website: http://www.ci.haverhill.ma.us/

FEMA website:
https://msc.fema.gov/portal/search?AddressQuery=73 20plaistow 20road 20haverhill 2C 20ma

Southern Essex District Registry of Deeds website:
http://www.salemdeeds.com/newwebsite/DefaultSearch.aspx

13. SIGNATURE AND QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

This report was prepared and reviewed by employees of LEI, whose signature appears below. Statements of qualifications for LEI are included in **Appendix G**. Requests for information on the content of this document should be directed to the undersigned.

Approved for Release by:

_____ _____

Lawrence H. Lessard, LSP Date
President

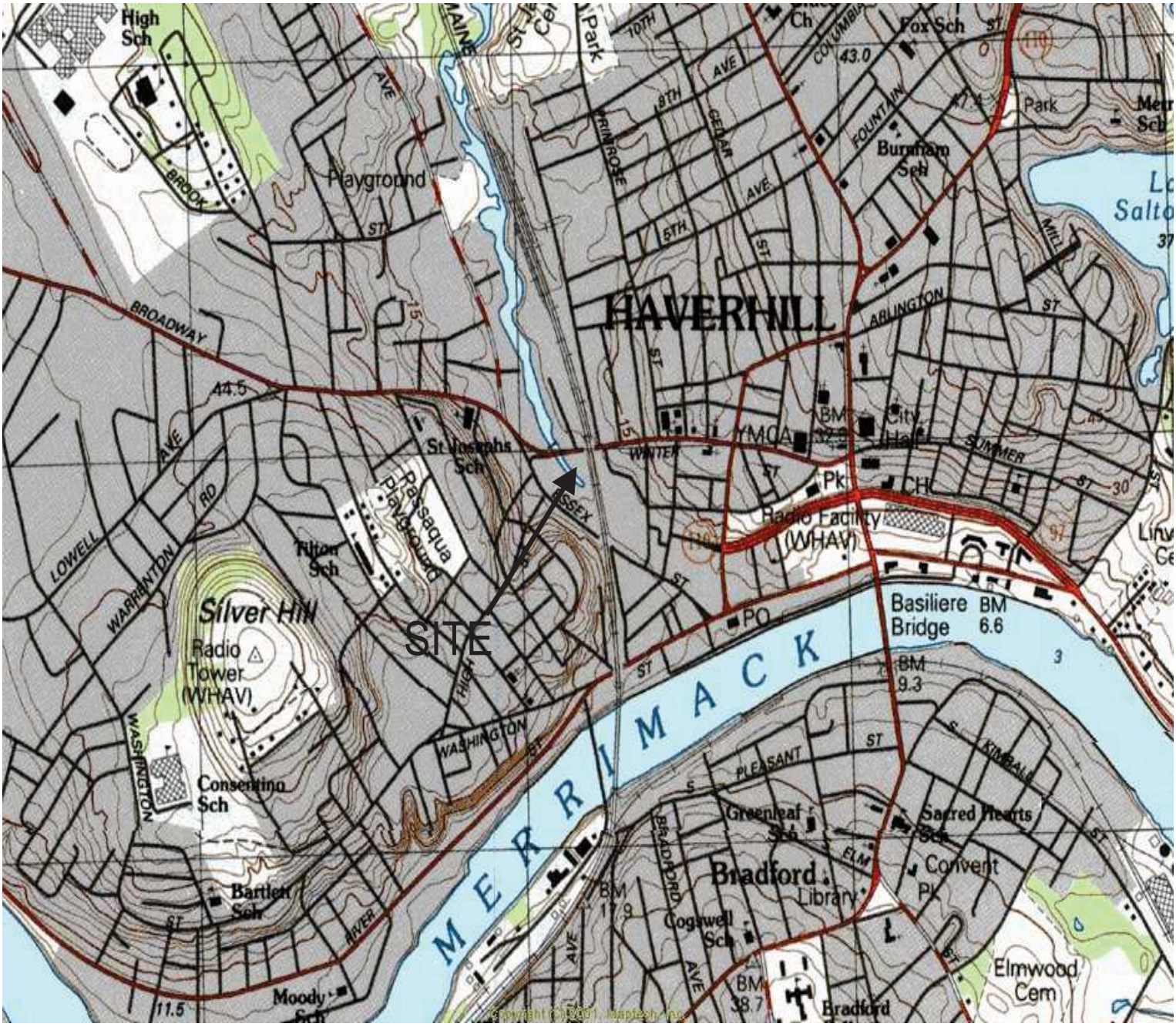


Figure : Site Locus

284 Winter Street
Haverhill, MA
LEI Project : 2249

North

Lessard Environmental, Inc.
Professional Environmental Services and Consultation
100 Cummings Center Suite 229C
Beverly MA 01915
Tel 978-338-5541 Fax 978-338-5542

Source: USGS Haverhill Quadrangle
MAP: 42071-G1-TM-025
Scale: 1:25,000
Created: 1987
Revised: none
Digital Data Supplied by MapTech Greenland, NH

LESSARD ENVIRONMENTAL INC.
100 CUMMINGS CENTER (SUITE 229C) BEVERLY, MA. 01915
TELEPHONE: 978-338-5541 FAX: 978-338-5542

FIGURE 2: SITE LAYOUT

PROJECT No: 2249	CLIENT: ENERGY NORTH GROUP		
SITE ADDRESS: 284 WINTER STREET HAVERHILL, MA			
SCALE: NTS	DRAWN BY: RJG	UPDATED: NONE	DATE: 12-8-2014

NOTES:

1. THIS SITE PLAN PREPARED FROM GOOGLE EARTH AERIAL PHOTOGRAPH DATED 8.24.2013 AND FIELD MEASUREMENTS/OBSERVATIONS.
2. ALL LOCATIONS ON THIS FIGURE ARE APPROXIMATE.

LEGEND:

MONITORING WELL LOCATION

CAR WASH SUPPLY WELL LOCATION

MassDEP Bureau of Waste Site Cleanup

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

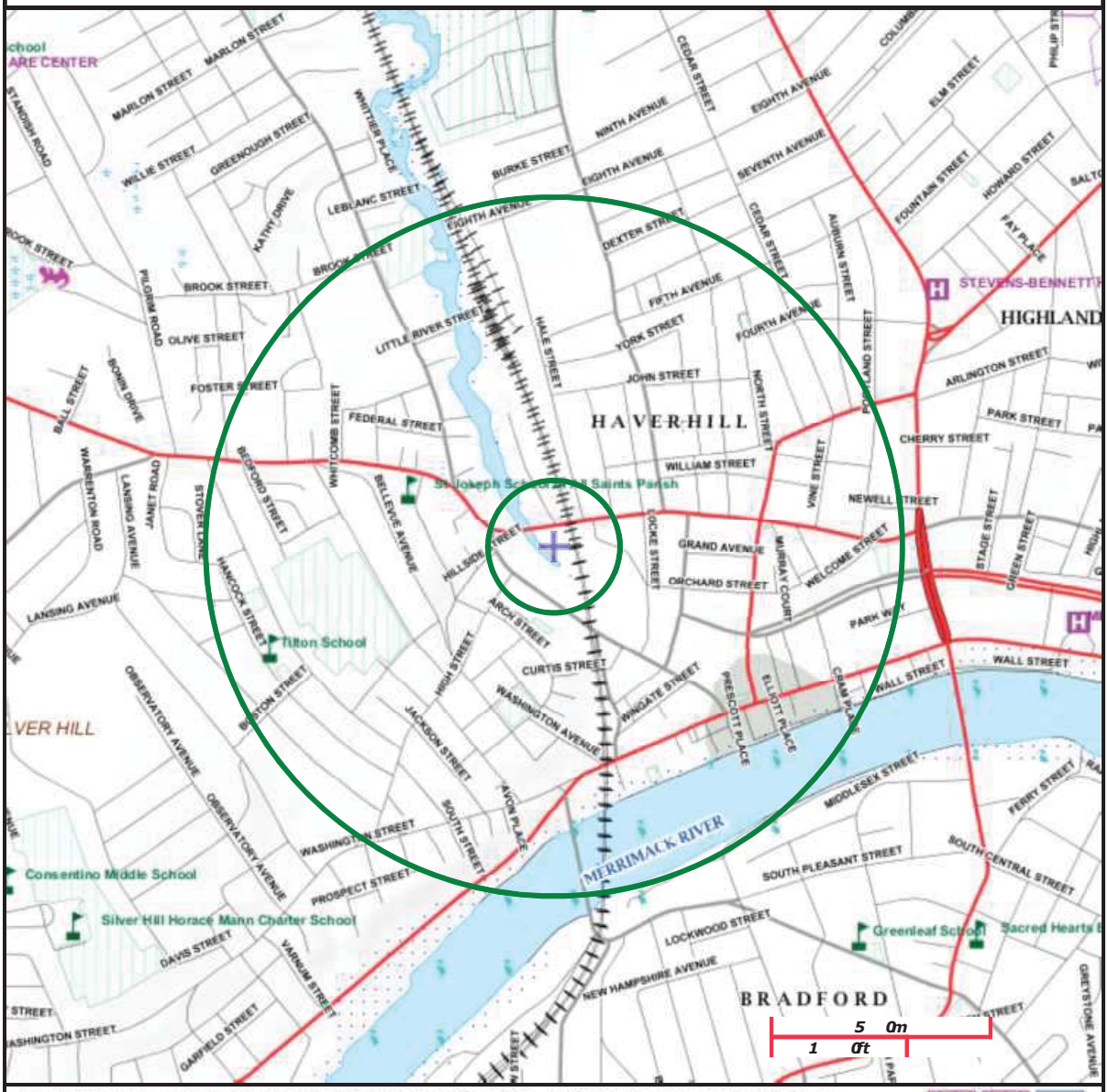
Site Information:

FIGURE 2
284 WINTER STREET, HAVERHILL, MA

NAD83 UTM Meters:
4738177mN 329220mE (Zone: 19)
December 10, 2014

The information shown is the best available at the date of printing. However it may be incomplete. The responsible party and LSP are ultimately responsible for ascertaining the true conditions surrounding the site. Metadata for data layers shown on this map can be found at: http://www.mass.gov/mgis/.

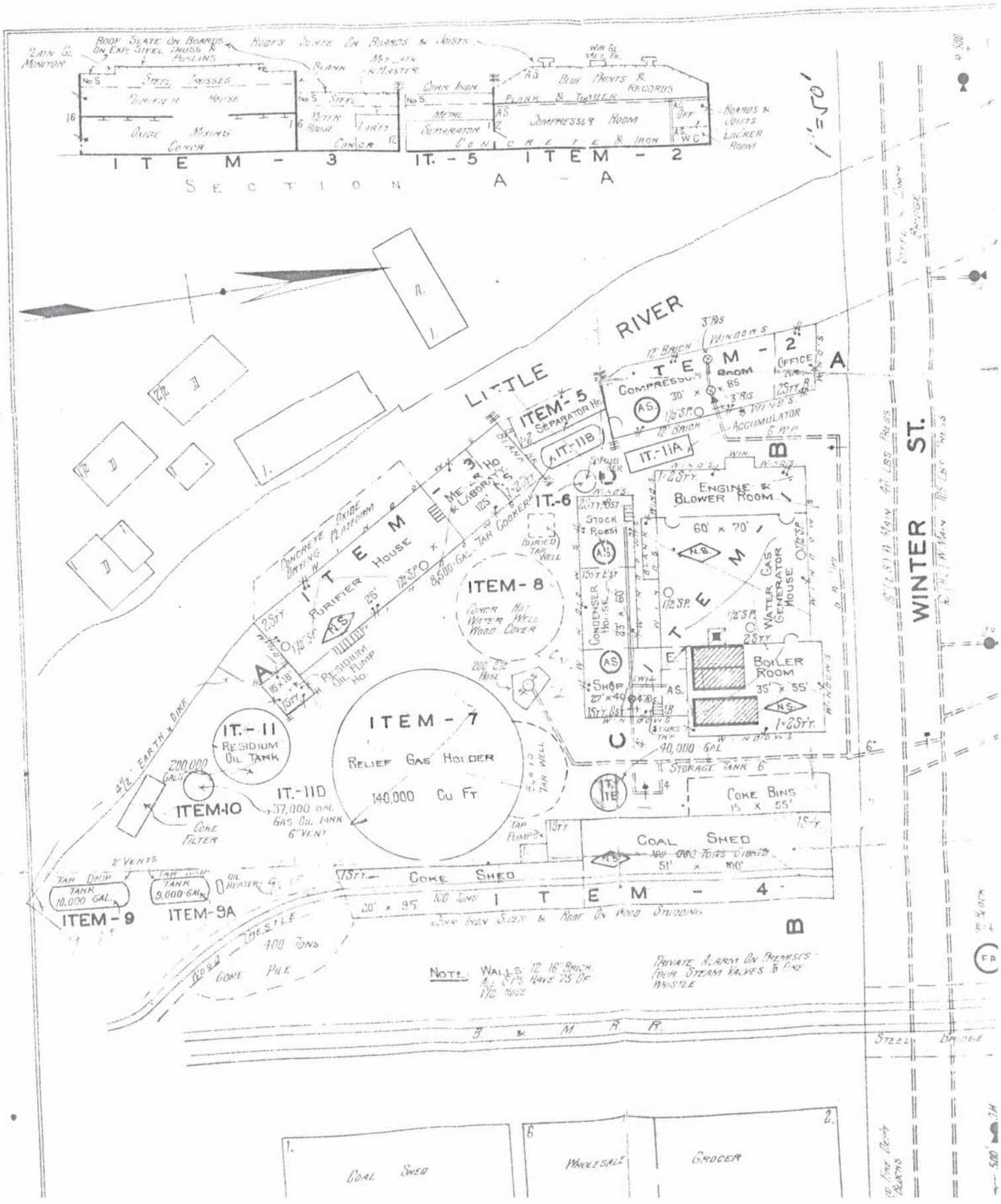
MassDEP
Commonwealth of Massachusetts
Department of Environmental Protection



Roads: Limited Access, Divided, Other Hwy, Major Road, Minor Road, Track, Trail
Boundaries: Town, County, DEP Region, Train, Powerline, Pipeline, Aqueduct
Basins: Major, PWS; Streams: Perennial, Intermittent, Man Made Shore, Dam
Aquifers: Medium Yield, High Yield, EPA Sole Source
Non Potential Drinking Water Source Area: Medium, High (Yield)
PWS Protection Areas: Zone II, IWPA, Zone A
Hydrography: Open Water, PWS Reservoir, Tidal Flat
Wetlands: Freshwater, Saltwater, Cranberry Bog
FEMA 100yr Floodplain; Protected Open Space; ACEC
Est. Rare Wetland Wildlife Hab; Vernal Pool: Cert., Potential
Solid Waste Landfill; PWS: Com.GW,SW, Emerg., Non-Com.

APPENDIX C

Undated Historical MGP Site Plan Overlay



ITEM - 3
IT. - 5
ITEM - 2
SECTION A - A
LITTLE RIVER
WINTER ST.
ITEM - 2
COMPRESSOR ROOM
OFFICE
ACCUMULATOR
ITEM - 5
SEPARATOR HO.
IT. - 11B
IT. - 11A
IT. - 6
ENGINE & BLOWER ROOM
60' x 70'
STOCK ROOM
CONDENSER HOUSE
WATER GAS GENERATOR HOUSE
BOILER ROOM
35' x 55'
SHOP
ITEM - 8
CONCR HOT WATER WELL WOOD COVER
ITEM - 3
METER HO. & LABORATY
PURIFIER HOUSE
RESIDIUM OIL PUMP HO.
ITEM - 7
RELIEF GAS HOLDER
140,000 CU FT
IT. - 11
RESIDIUM OIL TANK
200,000 GALS
ITEM - 10
COKE FILTER
IT. - 11D
37,000 GAL GAS OIL TANK
40,000 GAL
STORAGE TANK 6
COKE BINS
15 x 55'
COAL SHED
51' x 100'
COKE SHED
20' x 95'
ITEM - 4
ITEM - 9
TAP DRIP TANK 10,000 GAL.
ITEM - 9A
TAP DRIP TANK 9,000 GAL.
400 TONS
COKE PILE
NOTE: WALLS 12 16" BRICK ALL SPS HAVE 75 OF 1/2 HOSE
PRIVATE ALARM ON PREMISES FOUR STEAM VALVES TO FIRE WHISTLE
B & M R R.
STEEL BRIDGE
COAL SHED
WHOLESALE
GROCER

APPENDIX D

The EDR Aerial Photo Decade Package, dated March 1, 2016

Haffner Realty Trust
284 Winter St
Haverhill, MA 01830

Inquiry Number: 4551943.5
March 01, 2016

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

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Date EDR Searched Historical Sources:

Aerial Photography March 01, 2016

Target Property:

284 Winter St

Haverhill, MA 01830

Year	***Scale***	***Details***	***Source***
1938	Aerial Photograph. Scale: 1"=500'	Flight Date: November 01, 1938	USGS
1953	Aerial Photograph. Scale: 1"=500'	Flight Date: May 03, 1953	USGS
1969	Aerial Photograph. Scale: 1"=1000'	Flight Date: September 13, 1969	EDR
1971	Aerial Photograph. Scale: 1"=500'	Flight Date: May 15, 1971	USGS
1978	Aerial Photograph. Scale: 1"=500'	Flight Date: April 23, 1978	USGS
1985	Aerial Photograph. Scale: 1"=500'	Flight Date: April 17, 1985	USGS
1995	Aerial Photograph. Scale: 1"=750'	Flight Date: April 03, 1995	EDR
1998	Aerial Photograph. Scale: 1"=500'	DOQQ - acquisition dates: April 11, 1998	USGS/DOQQ
2006	Aerial Photograph. Scale: 1"=500'	Flight Year: 2006	USDA/NAIP
2008	Aerial Photograph. Scale: 1"=500'	Flight Year: 2008	USDA/NAIP
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2011	Aerial Photograph. Scale: 1"=500'	Flight Year: 2011	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP

INQUIRY #: 4551943.5
YEAR: 1938
= 500'
N
EDR

INQUIRY #: 4551943.5

YEAR: 1953

= 500'

N

EDR

INQUIRY #: 4551943.5
YEAR: 1969
= 1000'
N
EDR

INQUIRY #: 4551943.5
YEAR: 1971
= 500'
N
EDR

INQUIRY #: 4551943.5
YEAR: 1978
= 500'
N
EDR

INQUIRY #: 4551943.5
YEAR: 1985
= 500'
N
EDR

INQUIRY #: 4551943.5
YEAR: 1995
= 750'
N
EDR

INQUIRY #: 4551943.5
YEAR: 1998
= 500'
N
EDR

INQUIRY #: 4551943.5
YEAR: 2006
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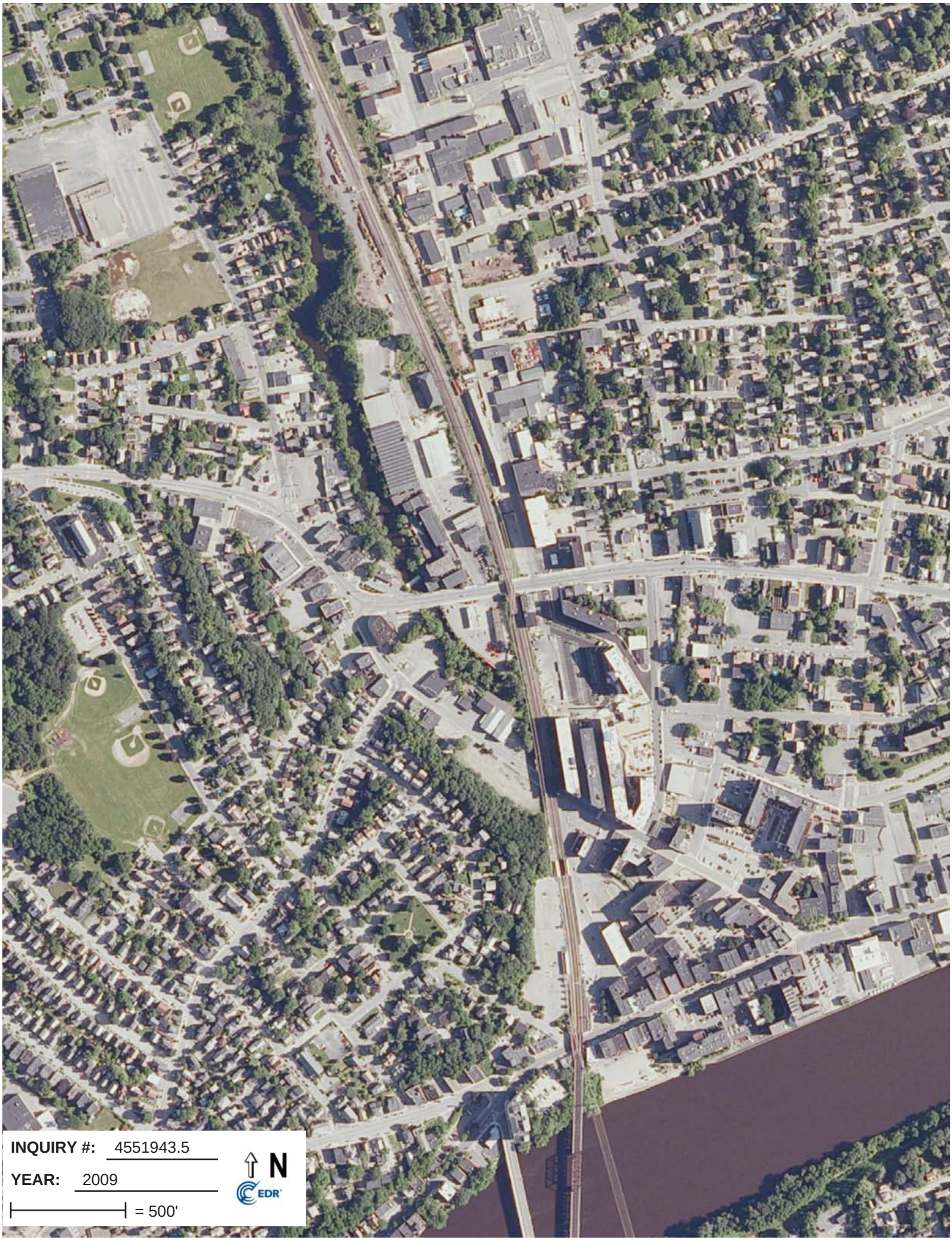
N
EDR

INQUIRY #: 4551943.5
YEAR: 2008
= 500'
N
EDR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YEAR: 2009
= 500'
N
EDR

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YEAR: 2010
= 500'
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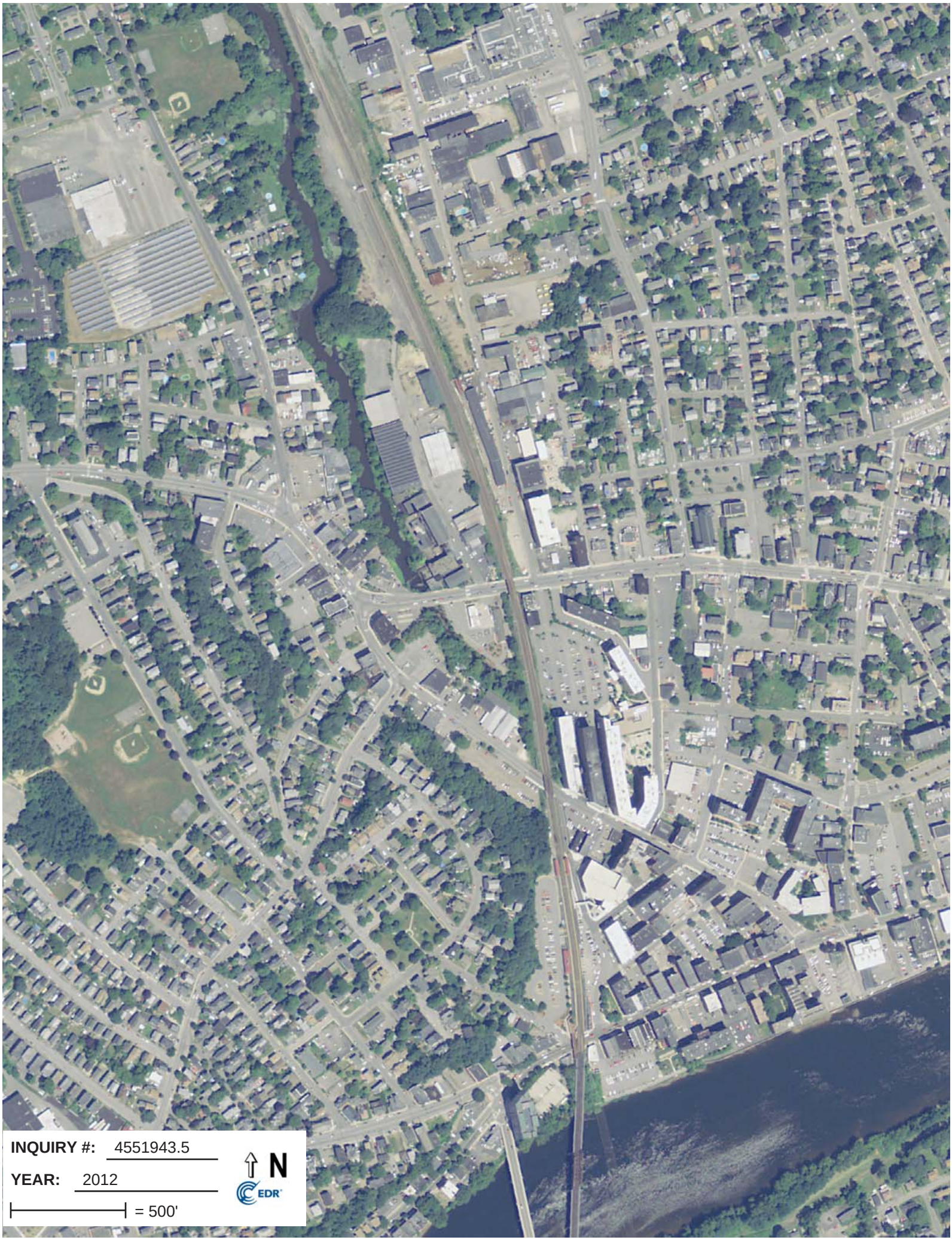
EDR

INQUIRY #: 4551943.5
YEAR: 2011
= 500'
N
EDR


INQUIRY #: 4551943.5
YEAR: 2012
= 500'
N
EDR

APPENDIX E

EDR Certified Sanborn® Map Report, dated March 1, 2016

Haffner Realty Trust
284 Winter St
Haverhill, MA 01830

Inquiry Number: 4551943.3
March 01, 2016

Certified Sanborn® Map Report

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

3/01/16

Site Name:	**Client Name:**
Haffner Realty Trust	Ramboll Environ
284 Winter St	4350 North Fairfax Drive
Haverhill, MA 01830	Arlington, VA 22203
EDR Inquiry # 4551943.3	Contact: Robert Seeley

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Ramboll Environ were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Site Name:	Haffner Realty Trust
Address:	284 Winter St
City, State, Zip:	Haverhill, MA 01830
Cross Street:	
P.O. #	NA
Project:	0836060c
Certification #	B89D-4EFF-947D

Maps Provided:

1971	1886
1961	
1954	
1949	
1906	
1893	

Sanborn® Library search results
Certification # B89D-4EFF-947D

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Sanborn Sheet Thumbnails

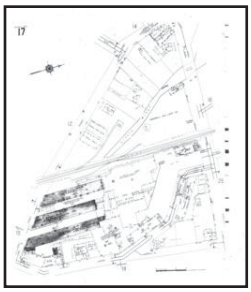
This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1971 Source Sheets

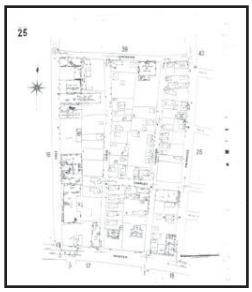
Volume 1, Sheet 12

Volume 1, Sheet 14

Volume 1, Sheet 16



Volume 1, Sheet 17



Volume 1, Sheet 25

1961 Source Sheets

Volume 1, Sheet 12

Volume 1, Sheet 16

Volume 1, Sheet 17

Volume 1, Sheet 25

1954 Source Sheets

Volume 1, Sheet 12

Volume 1, Sheet 16

Volume 1, Sheet 17

Volume 1, Sheet 25

1949 Source Sheets

Volume 1, Sheet 12

Volume 1, Sheet 16

Volume 1, Sheet 17

Volume 1, Sheet 25

1906 Source Sheets

Volume 1, Sheet 16

Volume 1, Sheet 17

Volume 1, Sheet 25

1893 Source Sheets

Volume 1, Sheet 8

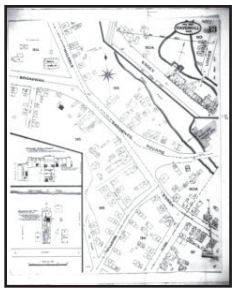
Volume 1, Sheet 9

Volume 1, Sheet 21

Volume 1, Sheet 22

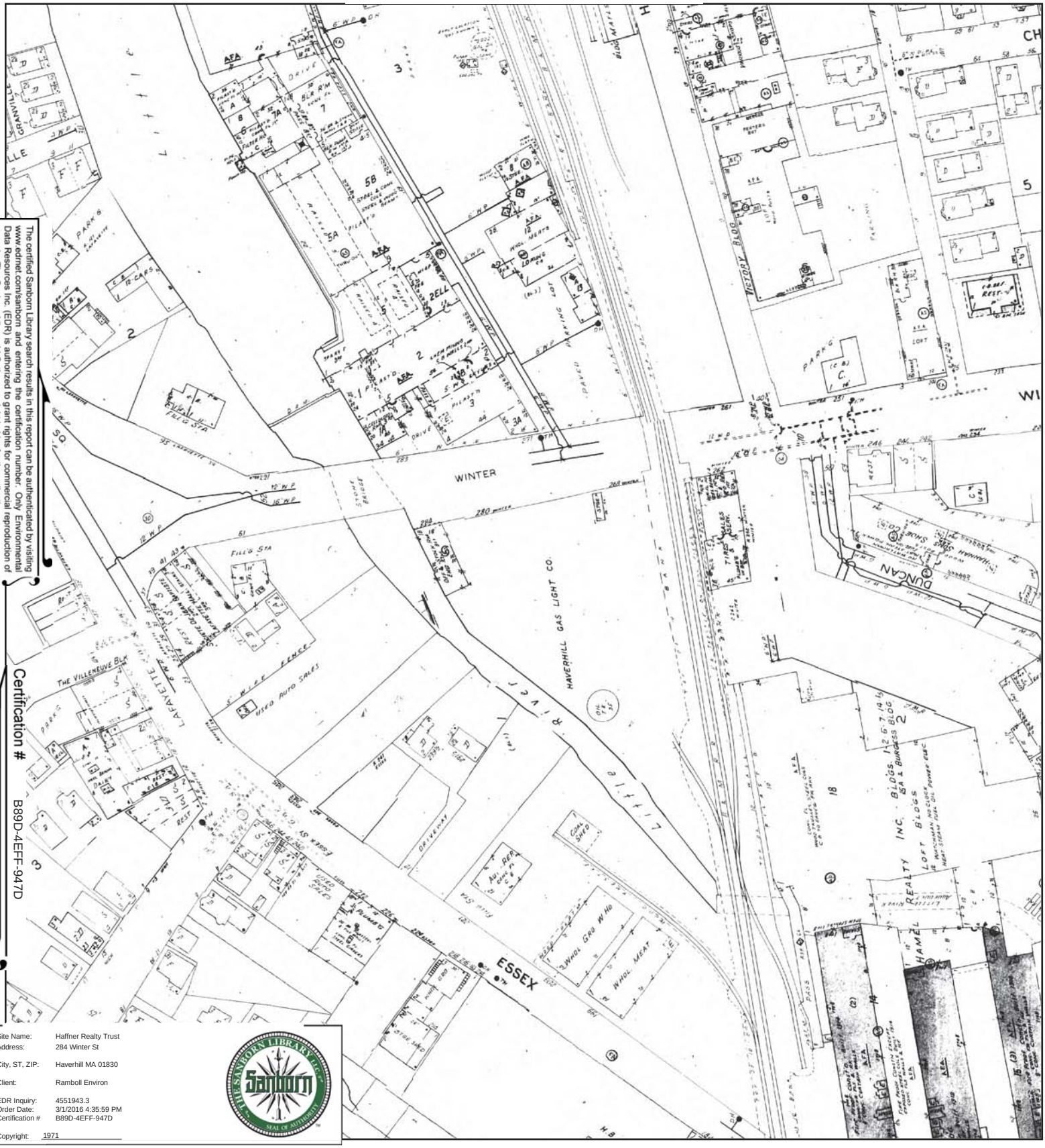
1886 Source Sheets

Volume 1, Sheet 12



Volume 1, Sheet 13

1971 Certified Sanborn Map



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Site Name:	Haffner Realty Trust
Address:	284 Winter St
City, ST, ZIP:	Haverhill MA 01830
Client:	Ramboll Environ
EDR Inquiry:	4551943.3
Order Date:	3/1/2016 4:35:59 PM
Certification #	B89D-4EFF-947D
Copyright:	1971

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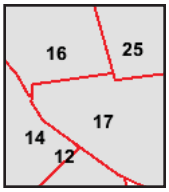

Volume 1, Sheet 12
Volume 1, Sheet 14
Volume 1, Sheet 16
Volume 1, Sheet 17
Volume 1, Sheet 25

N

1961 Certified Sanborn Map

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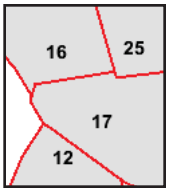
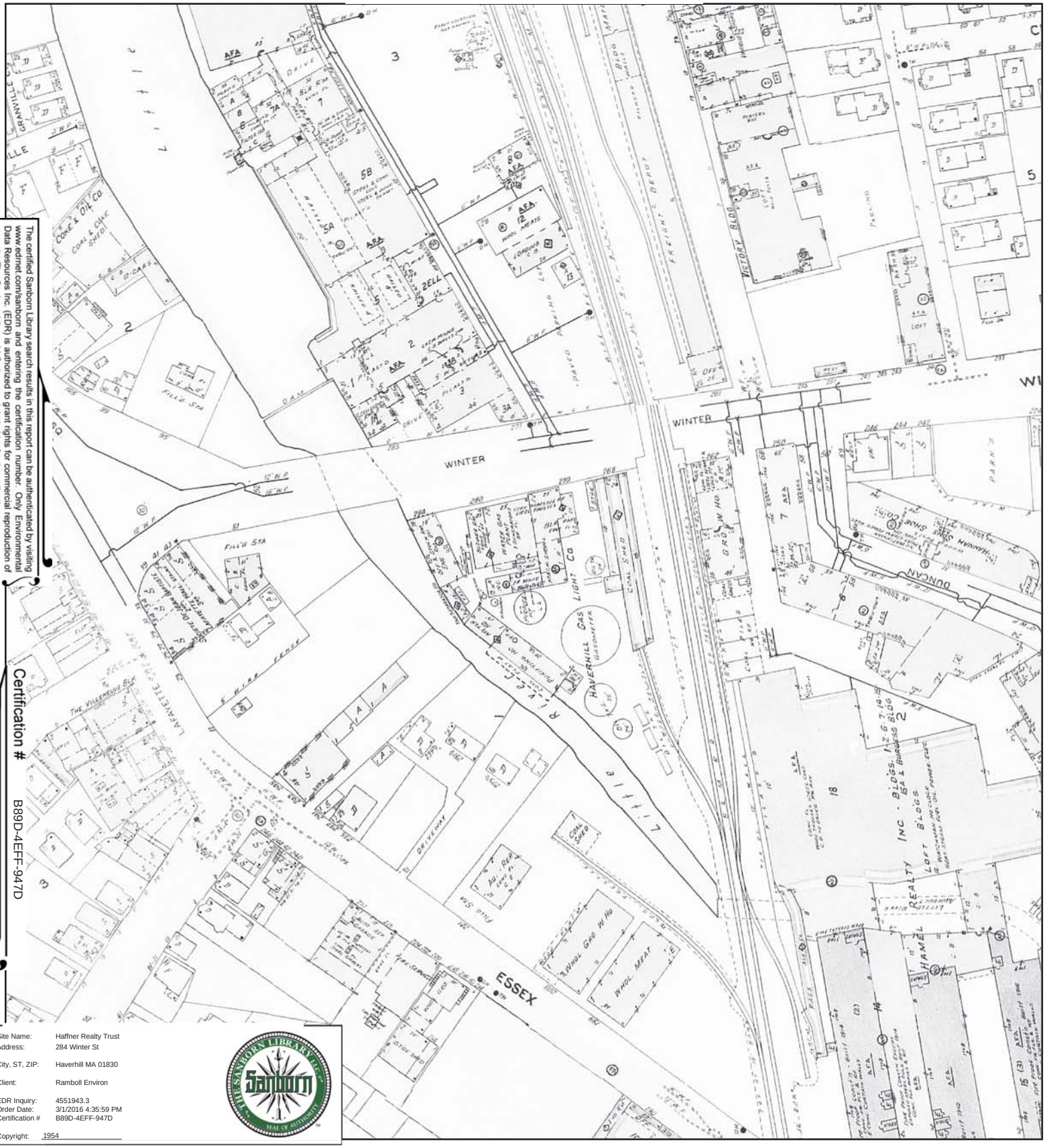


Volume 1, Sheet 12
Volume 1, Sheet 16
Volume 1, Sheet 17
Volume 1, Sheet 25

N

1954 Certified Sanborn Map



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Site Name:	Haffner Realty Trust
Address:	284 Winter St
City, ST, ZIP:	Haverhill MA 01830
Client:	Ramboll Environ
EDR Inquiry:	4551943.3
Order Date:	3/1/2016 4:35:59 PM
Certification #	B89D-4EFF-947D
Copyright:	1954

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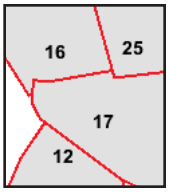
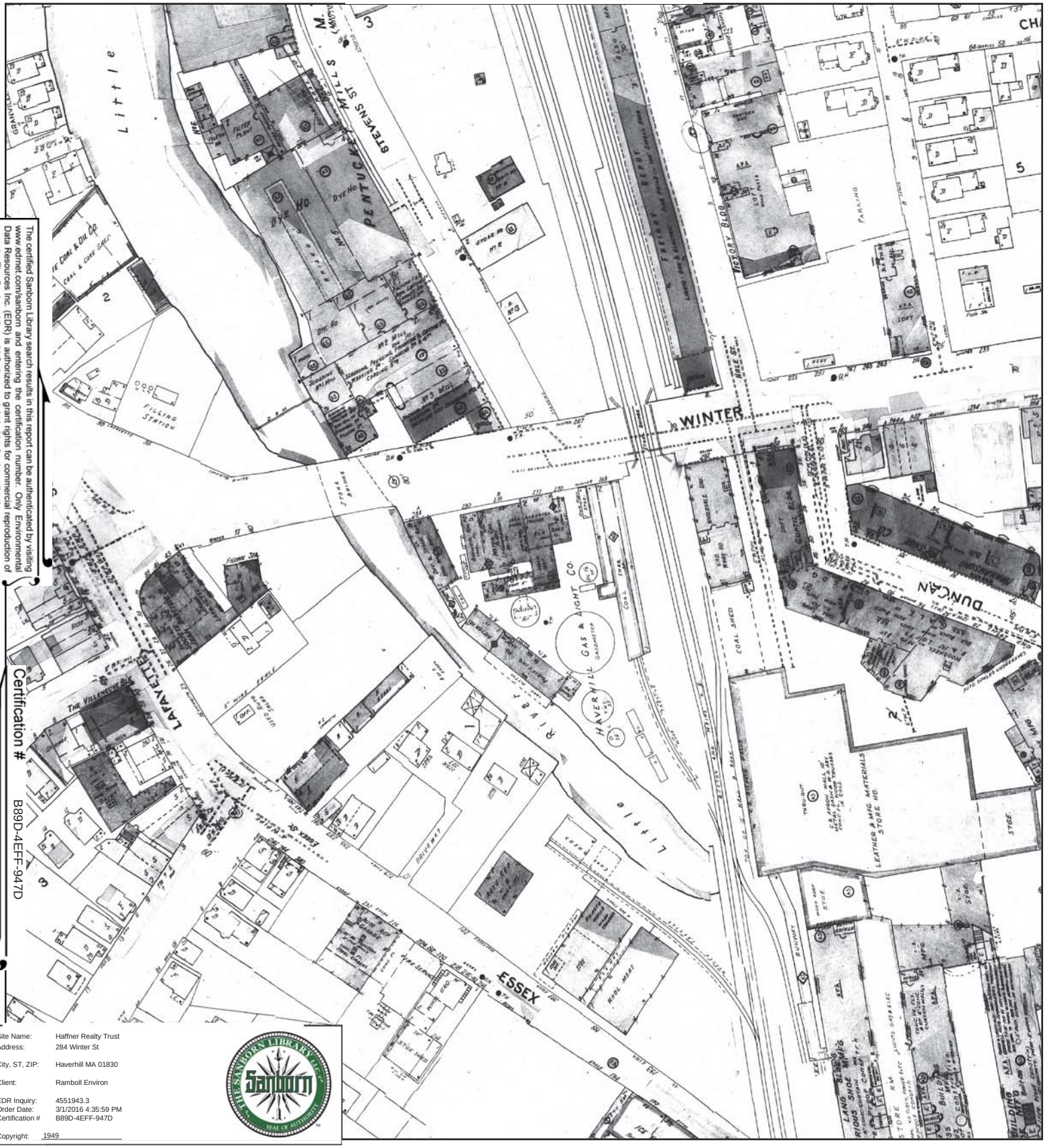


Volume 1, Sheet 12
Volume 1, Sheet 16
Volume 1, Sheet 17
Volume 1, Sheet 25

N

1949 Certified Sanborn Map



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Site Name:	Haffner Realty Trust
Address:	284 Winter St
City, ST, ZIP:	Haverhill MA 01830
Client:	Ramboll Environ
EDR Inquiry:	4551943.3
Order Date:	3/1/2016 4:35:59 PM
Certification #	B89D-4EFF-947D
Copyright:	1949

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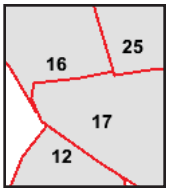
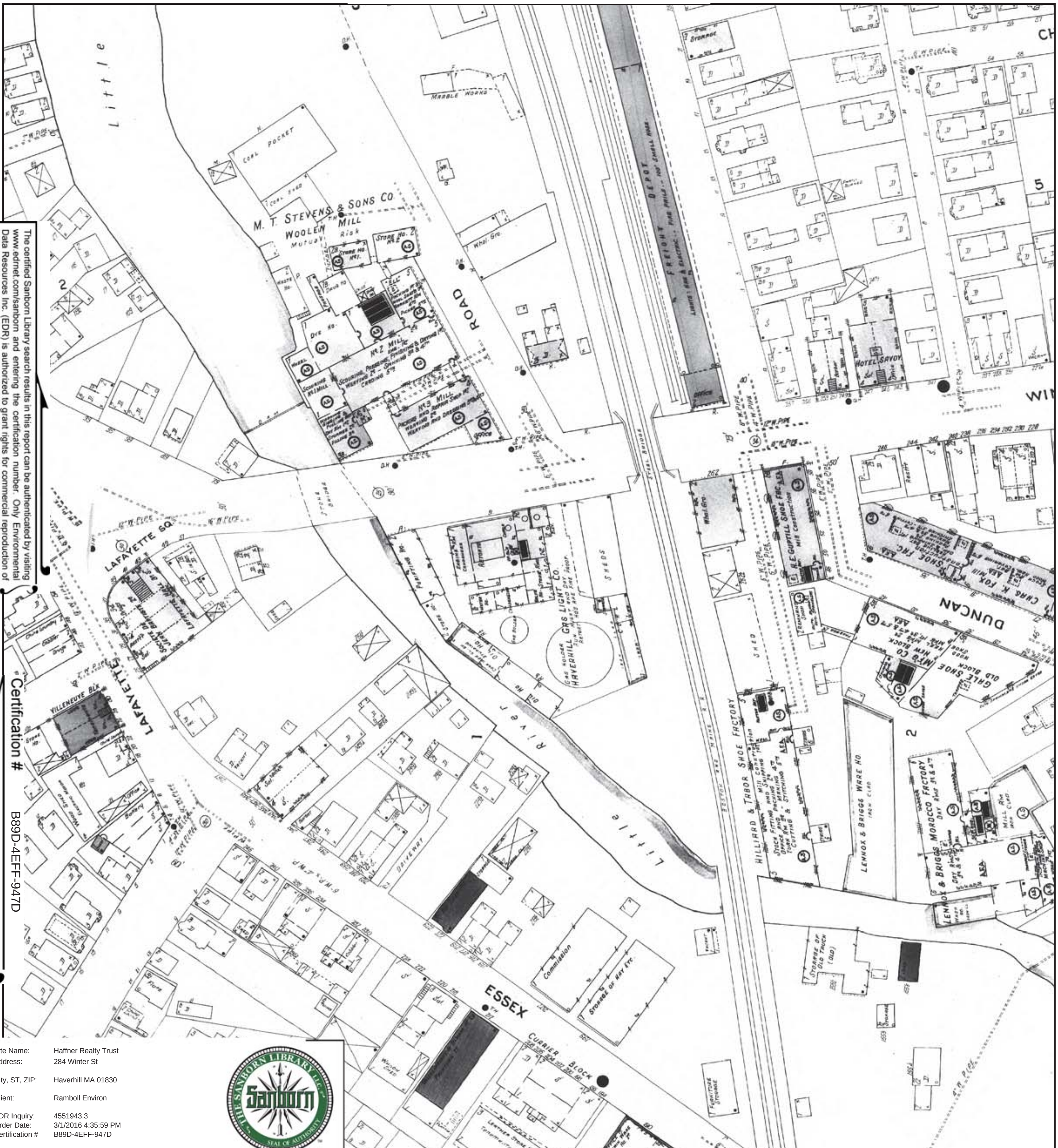


Volume 1, Sheet 12
Volume 1, Sheet 16
Volume 1, Sheet 17
Volume 1, Sheet 25

N

1906 Certified Sanborn Map



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Site Name: Haffner Realty Trust
Address: 284 Winter St
City, ST, ZIP: Haverhill MA 01830
Client: Ramboll Environ
EDR Inquiry: 4551943.3
Order Date: 3/1/2016 4:35:59 PM
Certification # B89D-4EFF-947D
Copyright: 1906

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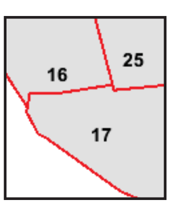
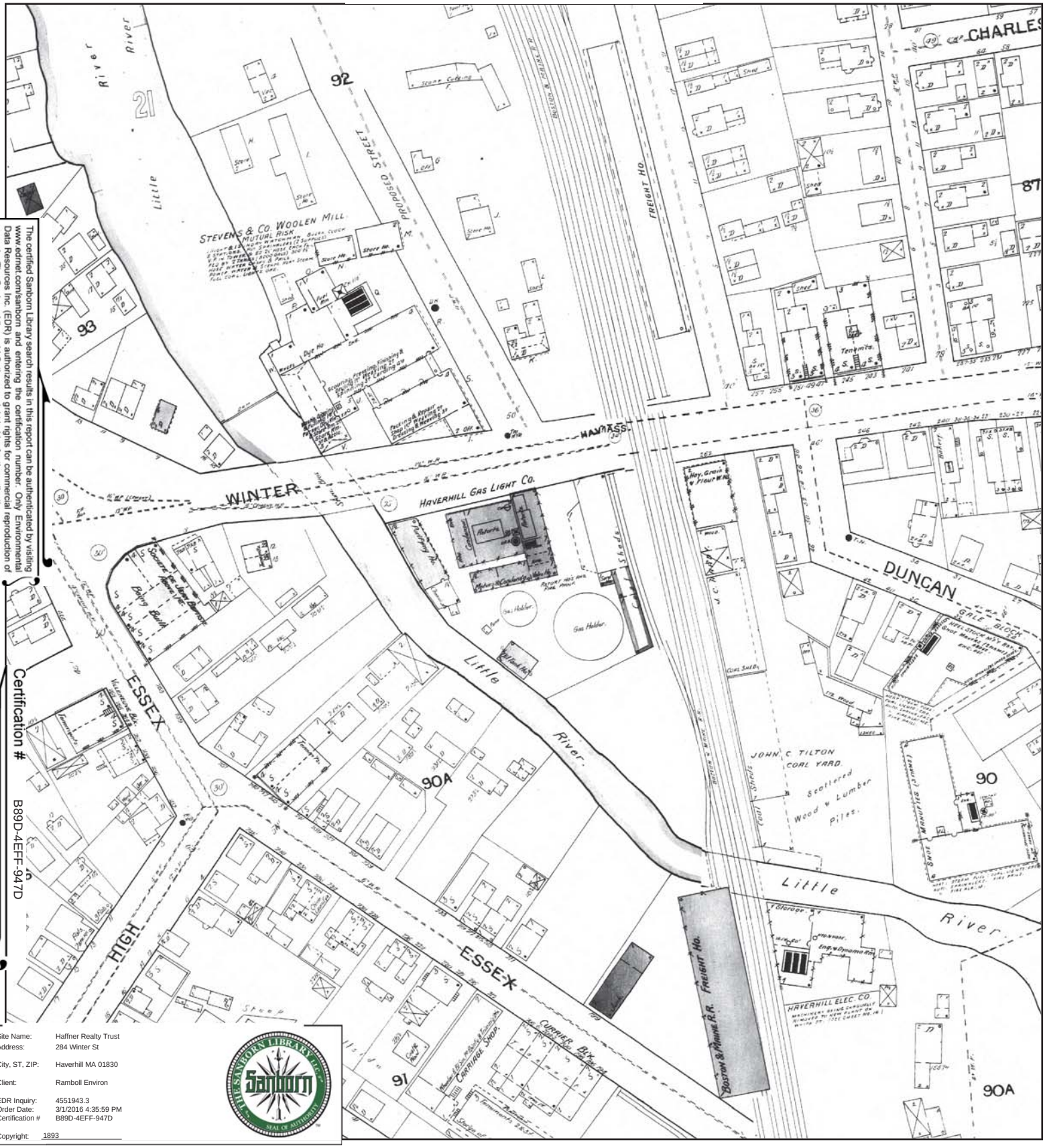


Volume 1, Sheet 16
Volume 1, Sheet 17
Volume 1, Sheet 25

N

1893 Certified Sanborn Map



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Site Name:	Haffner Realty Trust
Address:	284 Winter St
City, ST, ZIP:	Haverhill MA 01830
Client:	Ramboll Environ
EDR Inquiry:	4551943.3
Order Date:	3/1/2016 4:35:59 PM
Certification #	B89D-4EFF-947D
Copyright:	1893

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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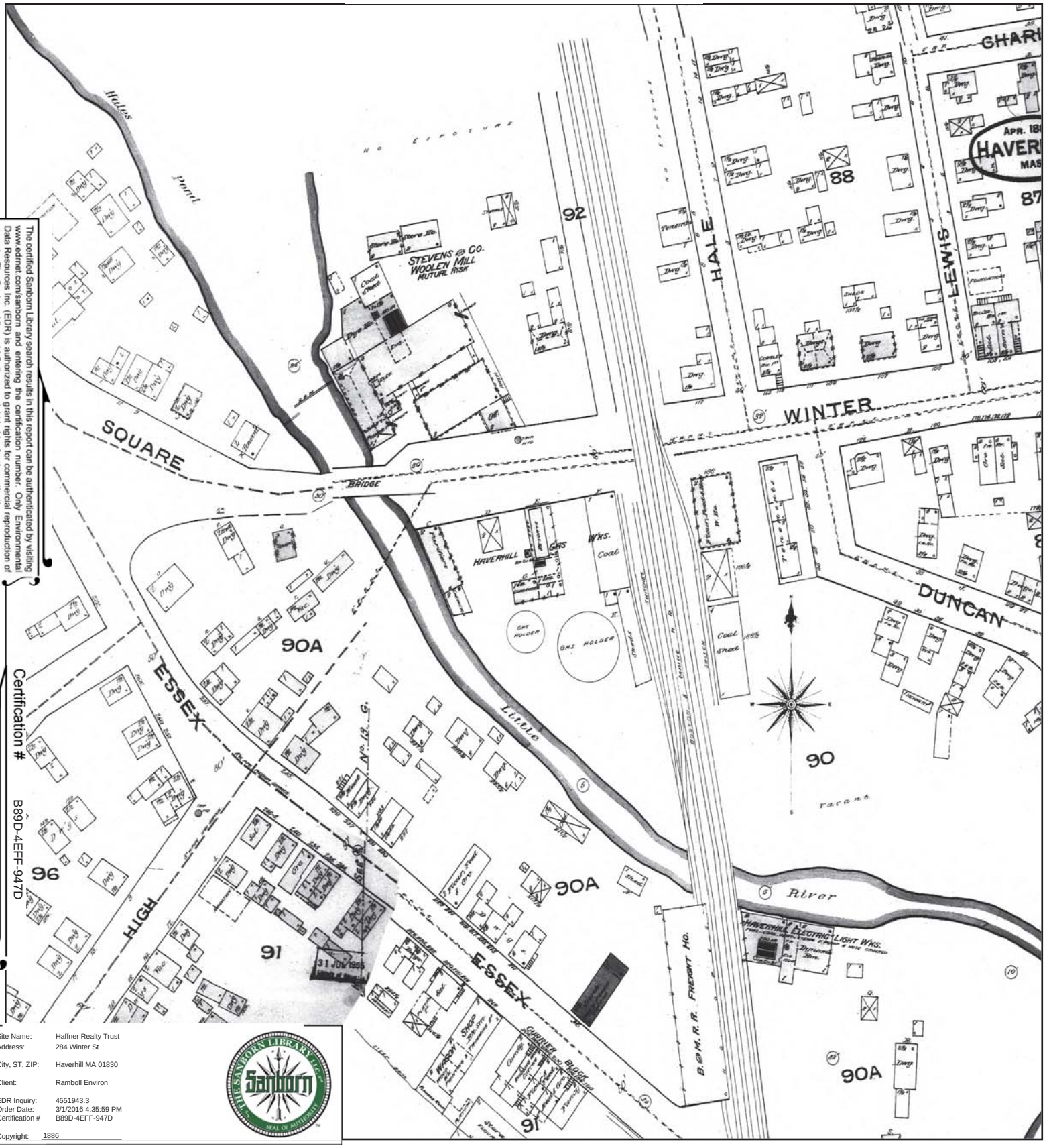
Volume 1, Sheet 8
Volume 1, Sheet 9
Volume 1, Sheet 21
Volume 1, Sheet 22

N

1886 Certified Sanborn Map



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City, ST, ZIP:	Haverhill MA 01830
Client:	Ramboll Environ
EDR Inquiry:	4551943.3
Order Date:	3/1/2016 4:35:59 PM
Certification #	B89D-4EFF-947D
Copyright:	1886

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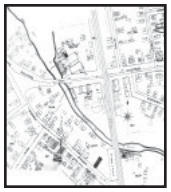

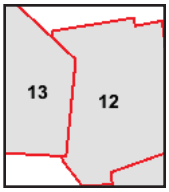

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APPENDIX F

1988 Spill Letter from Haverhill Fire Department

FIRE DEPARTMENT

CITY OF HAVERHILL

MASSACHUSETTS 01830

RICHARD H. BORDEN
Chief of Department

17 Hamilton Avenue
Haverhill, MA 01830
Tel. 373-8460

April 20, 1988

Richard H. Borden
Fire Chief
17 Hamilton Avenue
Haverhill, MA 01830

Dear Chief Borden:

The Alarm Room notified me on 4/19/88 that a spill was reported at Haffners Gas leaking into Little River. The Army Corps of Engineers reported the stain to the City Engineer reported it to the Fire Department. On the scene were Donna Leone, Calvin Cranton and Al Rizzotti of the Health Department.

After talking with Phil Cough and recalling the previous use of the site, I believe that the stain is caused by coal oil or tar from the old Gas Company operations when they manufactured gas.

D.E.Q.E. was called by me and William Luther returned the call and said that he would have an Inspector on site either Tuesday afternoon or Wednesday morning. As of 10:00 AM I have not been contacted.

Signed,

Warren C. Jardine D/C

Warren C. Jardine
Deputy Fire Chief
Head of Fire Prevention

WCJ/jd

APPENDIX G

Underground Storage Tank Documentation (Inspections, Permits, etc.)

The Commonwealth of Massachusetts
Department of Revenue
Underground Storage Tank Program

100 Cambridge Street, 7th Floor
Boston, Massachusetts 02114
Tel. (617) 626-2600

CERTIFICATE OF COMPLIANCE FOR PETROLEUM DISPENSING FACILITIES

Date Issued: 11/28/2014 **Date Expires:** 11/28/2019

Certificate of Compliance Number: 5252

HAFFNER'S
Facility Name (Corporation, Individual, or Other Entity)

HAFFNER REALTY TRUST
Owner at Time of Certification

284 WINTER ST
Street Address of UST Facility

HAVERHILL, MA 01830
City, State, and Zip Code

Issued By:
Gordon H. Bullard, Executive Director

This Certificate of Compliance is granted in accordance with the provisions of M.G.L., Chapter 21J. The 21J Fund is approved by the EPA as a state assurance mechanism for demonstrating Financial Responsibility that meets the provisions of 527 CMR 9.07 (N). The maximum reimbursement for eligible costs incurred as a result of releases of petroleum products from UST systems is defined in 503 CMR 2.16 and is summarized as follows: $1.5 million for an Owner or Operator dispensing petroleum products to the public or dispensing more than an average of 10,000 gallons of petroleum products per month based on an annual throughput; or $500,000 for an Owner or Operator not dispensing petroleum products to the public and dispensing less than an average of 10,000 gallons per month based on the annual throughput. The UST Facility identified herein is presumed by the Department of Revenue to have met the full regulatory compliance requirements of 503 CMR 2.00, and as such, is presumed to be eligible to use the 21J Fund as a mechanism of Financial Responsibility. This presumption of compliance is rebuttable. Issuance of this Certificate of Compliance is conditional upon the above identified UST Facility maintaining a valid FP-290 and all other requirements set forth in 503 CMR 2.00, 503 CMR 4.00, 527 CMR 5.00, CMR 9.00, and CMR 15.00.

This Certificate Must Be Posted or Available on the Facility Premises.

Form 21J-COC1 Rev. 6/13/2007

... issuance and renewal contigent upon passing the inspection conducted pursuant to 527 CMR 9.07 (P)

(Owner's copy – To be posted at the storage facility)

FP-290 Permit (revised 05/08)

The Commonwealth of Massachusetts
Department of Fire Services – Office of the State Fire Marshal
P.O. Box 1025, State Road, Stow, MA 01775

REGISTRATION 5613

Haverhill 4/1/2015

This is to certify that HAFFNER REALTY TRUST

has, in accordance with the provisions of M.G.L. chapter 148, Section 13, filed with me a certificate of registration setting forth that:

HAFFNER REALTY TRUST
Name of Holder of license

is the holder of the license granted on 19761123 for the lawful use of the building(s) or other structure(s) situated at or to be situated at :

284 WINTER ST
Street and Number

as related to the **Keeping, Storage, Manufacture or Sale of Flammables or Explosives.**

Linda L Kantoulas
Signature and Official Title

City Clerk

Note: A certificate of registration must be filed on/before April 30th of each year

This registration must be conspicuously posted upon the premises

EXPIRES: 12-31-15

ISSUE DATE 01-01-15

THE COMMONWEALTH OF MASSACHUSETTS
DIVISION OF STANDARDS

ME0000422

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

PERMIT

To Maintain an Existing/New Storage Tank Facility for Underground Storage Tanks Regulated under 527 CMR 9.00

In accordance with the provisions of 527 CMR 9.00 this permit to maintain an existing/new storage tank facility is granted to:

Location of Property: 284 Winter St.
Street address

Owner of Property: Haffner's Service Stations, Inc.
Full name of person, firm or corporation

Number of Storage Tanks: 6 Underground

Facility to be maintained in accordance with the restrictions described below:

Fee paid: $ 12-31-15 *(M.G.L. Chapter 148, section 10A)*

This permit will expire ~~2/26/15~~ 12/31/15
Date

Signature of Head of Fire Department or Appointed Designee

527 CMR 9.07 (M) (1) Issuance and renewal contigent upon passing the inspection conducted pursuant to 527 CMR 9.07 (P)

(Owner's copy – To be posted at the storage facility)

FP-290 Permit (revised 05/08)

The Commonwealth of Massachusetts

The Commonwealth of Massachusetts

CITY/TOWN OF HAVERHILL

In accordance with the Massachusetts State Building Code, Section 108.15, this

CERTIFICATE OF INSPECTION

is issued to Haffner's Service Station

I Certify that I have inspected the PREMISES known as SAME

located at 284 Winter St in the CITY of HAVERHILL

County of ESSEX Commonwealth of Massachusetts. The means of egress are sufficient for the following number of persons:

BY STORY

Story	Capacity	Story	Capacity	Story	Capacity	Story	Capacity

BY PLACE OF ASSEMBLY OR STRUCTURE

Place of Assembly or Structure	Capacity	Location	Place of Assembly or Structure	Capacity	Location
Structure B	12				

867	12/2/11	11/21/2016	Building Official
Certificate Number	Date Certificate Issued	Date Certificate Expires	

of Sale of Flammables or Explosives.

Linda L Kantoulas

Signature and Official Title

City Clerk

Note: A certificate of registration must be filed on/before April 30th of each year

This registration must be conspicuously posted upon the premises

This registration must be conspicuously posted upon the premises

THE COMMONWEALTH OF MASSACHUSETTS
DIVISION OF STANDARDS
ONE ASHBURTON PLACE, BOSTON, 02108

EXPIRES: 12-31-15

ISSUE DATE 01-01-15

LICENSE NO. MF0000422

LICENSE TO SELL MOTOR FUEL and/or AUTOMOTIVE LUBRICATING OIL AT RETAIL

THIS IS TO CERTIFY THAT:

HAFFNERS SERVICE STATIONS, INC.
284 WINTER STREET
HAVERHILL MA 01830 HS

2015

1169614
CONTROL NO.

Is hereby licensed to engage in the business of selling fuel and/or lubricating oil at retail in accordance with the provisions of chapter 459 of the acts of 1939, as most recently amended.

THIS LICENSE IS NOT TRANSFERABLE AND MUST BE CONSPICUOUSLY POSTED UPON THE PREMISES

Massachusetts Department of Environmental Protection
Underground Storage Tank Program

Form UST FP-289

Third Party Underground Storage Tank Inspection

Instructions: This form shall be completed by a Third-Party Inspector as defined by 527 CMR 9.02 and in compliance with 527 CMR 9.07(P)

Section 1.A.:	General Information				
Facility Name:	HEG #114				
DEP Facility ID Number:	5252				
Required	Can be looked up at: http://db.state.ma.us/dep/ust/ustQueryPage.asp				
Street Address (no P.O. Box):	284 WINTER STREET				
City:	HAVERHILL	State:	MA	Zip:	01830
County:	ESSEX				
Phone Number at Facility:					
Operator Information					
Name:	PATRICK O'CONNELL				
Title:	VICE PRESIDENT				
Home Phone:	(978) 640-1100	Fax:	(978) 640-1101		
E-mail:	poconnell@energynorthgroup.com				
Address:	1700 SHAWSHEEN STREET, 2ND FLOOR				
City:	TEWKSBURY	State:	MA	Zip:	01876
Owner Information					
Owner Name:	HEG, INC.				
Address:	1700 SHAWSHEEN STREET, 2ND FLOOR				
City:	TEWKSBURY	State:	MA	Zip:	01876
County:	MIDDLESEX				
Phone Number:	(978) 640-1100	Fax:	(978) 640-1101		
E-mail:	poconnell@energynorthgroup.com				
Federal Employers ID#:	47-2540442				

Questions? Contact the MassDEP office at phone: 617-556-1053
Also check the FP-289 FAQ at http://www.mass.gov/dep/toxics/ust/

Inspector's Initials: PJO
Date: 3·3·15

Owner/Operator's initials:
Date: 3/3/15

Section 1.B.:	Inspector Information				
Inspection Date:	3·3·15	Inspector Name:	Peter O'Beirne		
Inspector Company:	P.M. Environmental, Inc.		Inspector ID#	1254	
Address:	15 Highwood Road				
City:	Manchester	State:	MA	Zip:	01944
Phone:	978-526-8255 (Work) 978-837-1212 (Mobil)	Qualification:	Approved by Marshal		

Section 1.C.:	License Information
Is a license to store flammables/combustibles posted on site (Form FP-2)?	☒ Yes ☐ No ☐ NA
Is a current certificate of registration posted on site (Form FP-5)?	☒ Yes ☐ No ☐ NA
Is a current permit to maintain USTs posted on site (Form FP-290 part 3)?	☒ Yes ☐ No
Is the current Form FP-290 accurate? *Sec. 1.A & 2. A., must match the FP-290*	☒ Yes ☐ No
Is financial responsibility verified?	☒ Yes ☐ No
Verify that A, B, & C Operators have been trained.	☒ Yes ☐ No
Attach most recent Form FP-290	☒ Attached

Fill out the tank number for each tank using the DFS tank number system found on the FP-290.

Use a second form for facilities with more than 4 tanks.

Section 2.:	Tank Information			
Total Number of Tanks on Site	6			
General Information	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
Owner Tank #				
Tank Serial #				
Geographic Location of Tanks - Latitude:	42° 46' 39" N	42° 46' 39" N	42° 46' 39" N	42° 46' 39" N
Geographic Location of Tanks – Longitude:	-71° 5' 15" W	-71° 5' 15" W	-71° 5' 15" W	-71° 5' 15" W
Use degrees, minutes and seconds. Examples: Lat. 42, 38, 12 N Long. 85, 24,17 W				
Status: *If out of use, complete 2.B.*	☒ In Use ☐ Temp out of Use ☐ Perm Out of Use	☒ In Use ☐ Temp out of Use ☐ Perm Out of Use	☒ In Use ☐ Temp out of Use ☐ Perm Out of Use	☒ In Use ☐ Temp out of Use ☐ Perm Out of Use
Total Capacity of Tank: (gal.)	20,000	20,000	20,000	20,000
Is tank a split (compartment) tank?	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
Capacity of each compartment: (gal.) *For a 10,000 gal tank show 8000/2000*	N/A	N/A	N/A	N/A
Tank Contents / Product: *For split tank show product (gasoline/kerosene) in same order as content*	SUPER	PLUS	REGULAR	FUEL OIL
Does tank contain gasoline and/or diesel? *in part or whole of tank (compartmented) for any part or whole of the year.*	☒ Gasoline ☐ Diesel	☒ Gasoline ☐ Diesel	☒ Gasoline ☐ Diesel	☐ Gasoline ☐ Diesel
If yes, for road use or for marine fueling? *Leave blank if other*	☒ Road Use ☐ Marine	☒ Road Use ☐ Marine	☒ Road Use ☐ Marine	☐ Road Use ☐ Marine
Used for emergency power generator	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No
Tank Construction Material	FRP	FRP	FRP	FRP
Tank Wall Type: Single or Double	☒ SW ☐ DW	☒ SW ☐ DW	☒ SW ☐ DW	☒ SW ☐ DW
Piping Type				
Pipe Construction Material	FRP	FRP	FRP	FRP
Pipe Wall Type: Single or Double	☐ SW ☒ DW	☐ SW ☒ DW	☐ SW ☒ DW	☐ SW ☒ DW
Multiple Runs Per Tank, *if yes show on map*	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No

Inspector's Initials: PJO
Date: 3·3·15

Owner/Operator's Initials:
Date: 3/3/15

Section 1.B.:	Inspector Information				
Inspection Date:	3.3.15	Inspector Name:	Peter O'Beirne		
Inspector Company:	P.M. Environmental, Inc.		Inspector ID#	1254	
Address:	15 Highwood Road				
City:	Manchester	State:	MA	Zip:	01944
Phone:	978-526-8255 (Work) 978-837-1212 (Mobil)	Qualification:	Approved by Marshal		

Section 1.C.:	License Information
Is a license to store flammables/combustibles posted on site (Form FP-2)?	☒ Yes ☐ No ☐ NA
Is a current certificate of registration posted on site (Form FP-5)?	☒ Yes ☐ No ☐ NA
Is a current permit to maintain USTs posted on site (Form FP-290 part 3)?	☒ Yes ☐ No
Is the current Form FP-290 accurate? *Sec. 1.A & 2. A.. must match the FP-290*	☒ Yes ☐ No
Is financial responsibility verified?	☒ Yes ☐ No
Verify that A, B, & C Operators have been trained.	☒ Yes ☐ No
Attach most recent Form FP-290	☒ Attached

Fill out the tank number for each tank using the DFS tank number system found on the FP-290.

Use a second form for facilities with more than 4 tanks.

Section 2.:	Tank Information			
Total Number of Tanks on Site:	6			
General Information	Tank No. 5	Tank No. 6	Tank No.	Tank No.
Owner Tank #				
Tank Serial #				
Geographic Location of Tanks - Latitude:	42° 46' 39" N	42° 46' 39" N		
Geographic Location of Tanks – Longitude:	-71° 5' 15" W	-71° 5' 15" W		
Use degrees, minutes and seconds. Examples: Lat. 42, 36, 12 N Long. 85, 24,17 W				
Status: *If out of use, complete 2.B.*	☒ In Use ☐ Temp out of Use ☐ Perm Out of Use	☒ In Use ☐ Temp out of Use ☐ Perm Out of Use	☐ In Use ☐ Temp out of Use ☐ Perm Out of Use	☐ In Use ☐ Temp out of Use ☐ Perm Out of Use
Total Capacity of Tank: (gal.)	20,000	6,000		
Is tank a split (compartment) tank?	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☐ No	☐ Yes ☐ No
Capacity of each compartment: (gal.) *For a 10,000 gal tank show 8000/2000*	N/A	N/A		
Tank Contents / Product: *For split tank show product (gasoline/kerosene) in same order as content*	FUEL OIL	DIESEL		
Does tank contain gasoline and/or diesel? *In part or whole of tank (compartmented) for any part or whole of the year.*	☐ Gasoline ☐ Diesel	☐ Gasoline ☒ Diesel	☐ Gasoline ☐ Diesel	☐ Gasoline ☐ Diesel
If yes, for road use or for marine fueling? *Leave blank if other*	☐ Road Use ☐ Marine	☒ Road Use ☐ Marine	☐ Road Use ☐ Marine	☐ Road Use ☐ Marine
Used for emergency power generator	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☐ No	☐ Yes ☐ No
Tank Construction Material	FRP	CATHODIC		
Tank Wall Type: Single or Double	☒ SW ☐ DW	☒ SW ☐ DW	☐ SW ☐ DW	☐ SW ☐ DW
Piping Type				
Pipe Construction Material	FRP	FRP		
Pipe Wall Type: Single or Double	☐ SW ☒ DW	☐ SW ☒ DW	☐ SW ☐ DW	☐ SW ☐ DW
Multiple Runs Per Tank, *If yes show on map*	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☐ No	☐ Yes ☐ No

Inspector's Initials: PO
Date: 3.3.15

Owner/Operator's Initials:
Date: 3/3/15

Select Primary Method.

Tank Leak Detection Method 2.A:	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4	If yes, proceed to section:
Automatic Tank Gauging (ATG)	☒	☒	☒	☒	3.A.
Continuous In-Tank Leak Detect System (CLDS)	☐	☐	☐	☐	3.B.
Interstitial Monitoring (IM)	☐	☐	☐	☐	3.C.
Inventory Control/Statistical Inventory Reconciliation (SIR)	☐	☐	☐	☐	3.D.
Other (EXPLAIN)					

The ***entire*** piping system must meet the standard, including split pipes. For piping systems that have been partially replaced, the inspection report must be completed for the least compliant/oldest sections of pipe. Pipe numbers on sketch in 2.C. correspond with pipe/tank number below.

Pipe Leak Detection Method	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4	If yes, proceed to section:
Pressurized piping only					
Automatic line leak detector (3 gph) & double-wall pipe with liquid sump sensor or with manual Interstitial Monitoring	☐	☐	☐	☐	3.C. AND 3.G.
ALLD (3 gph) & annual line tightness test	☒	☒	☒	☐	3.E. AND 3.G.
ALLD that can perform 3 gph continuous plus 0.2 gph/ month (electronic)	☐	☐	☐	☐	3.G.
Other (EXPLAIN)					
Suction piping only					
Interstitial monitoring	☐	☐	☐	☐	3.C.
Periodic Tightness Testing (non-European)	☐	☐	☐	☐	3.E.
European Suction	☐	☐	☐	☒	3.F.
Other (EXPLAIN)					

Corrosion Prevention Method:	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4	If yes, proceed to section:
Galvanic Cathodic Protection (GC) Tank and/or Piping	☐	☐	☐	☐	5.A.
Impressed Current (IC) Tank and/or Piping	☐	☐	☐	☐	5.B.
Non-Metal Piping (NM) Tank AND Piping Whole system must be non-metal to complete this section.	☒	☒	☒	☒	5.C.
Other (EXPLAIN)					

Fill out this section for any tank that is "temporarily closed" (contains product but is out of service) or is "taken out of service" (empty *and* out of service). A complete inspection of these tanks is required. Note: This section does not apply to a tank that is currently in use *or* permanently closed ***within 527 CMR 9.***

Section 2.B.: Tank Temporarily Closed or Taken Out of Service	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
Tank contains less than one inch of product	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Fill pipe locked or secured to prevent access	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Date tank was "temporarily closed" *(Month/Year)*				
Verify max time for Temp Out of Service: Single Wall Tanks - 6 months Double Wall Tanks- 24 months	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Fire Department Permit Posted	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
If tank is permanently closed, is FP-290R on file?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No

Inspector's Initials: RO
Date: 3 3 15

Owner/Operator's Initials:
Date: 3/3/15

Select Primary Method.

Tank Leak Detection Method 2.A.:	Tank No. 5	Tank No. 6	Tank No.	Tank No.	If yes, proceed to section:
Automatic Tank Gauging (ATG)	☒	☒	☐	☐	3.A.
Continuous In-Tank Leak Detect System (CLDS)	☐	☐	☐	☐	3.B.
Interstitial Monitoring (IM)	☐	☐	☐	☐	3.C.
Inventory Control/Statistical Inventory Reconciliation (SIR)	☐	☐	☐	☐	3.D.
Other (EXPLAIN)					

The ***entire*** piping system must meet the standard, including split pipes. For piping systems that have been partially replaced, the inspection report must be completed for the least compliant/oldest sections of pipe. Pipe numbers on sketch in 2.C. correspond with pipe/tank number below.

Pipe Leak Detection Method:	Tank No. 5	Tank No. 6	Tank No.	Tank No.	If yes, proceed to section:
Pressurized piping only					
Automatic line leak detector (3 gph) & double-wall pipe with liquid sump sensor or with manual Interstitial Monitoring	☐	☐	☐	☐	3.C. AND 3.G.
ALLD (3 gph) & annual line tightness test	☐	☒	☐	☐	3.E. AND 3.G.
ALLD that can perform 3 gph continuous plus 0.2 gph/ month (electronic)	☐	☐	☐	☐	3.G.
Other (EXPLAIN)					
Suction piping only					
Interstitial monitoring	☐	☐	☐	☐	3.C.
Periodic Tightness Testing (non-European)	☐	☐	☐	☐	3.E.
European Suction	☒	☐	☐	☐	3.F.
Other (EXPLAIN)					

Corrosion Prevention Method:	Tank No. 5	Tank No. 6	Tank No.	Tank No.	If yes, proceed to section:
Galvanic Cathodic Protection (GC) Tank and/or Piping	☐	☐	☐	☐	5.A.
Impressed Current (IC) Tank and/or Piping	☐	☐	☐	☐	5.B.
Non-Metal Piping (NM) Tank AND Piping Whole system must be non-metal to complete this section.	☒	☒	☐	☐	5.C.
Other (EXPLAIN)					

Fill out this section for any tank that is "temporarily closed" (contains product but is out of service) or is "taken out of service" (empty *and* out of service). A complete inspection of these tanks is required. Note: This section does not apply to a tank that is currently in use *or* permanently closed ***within 527 CMR 9.***

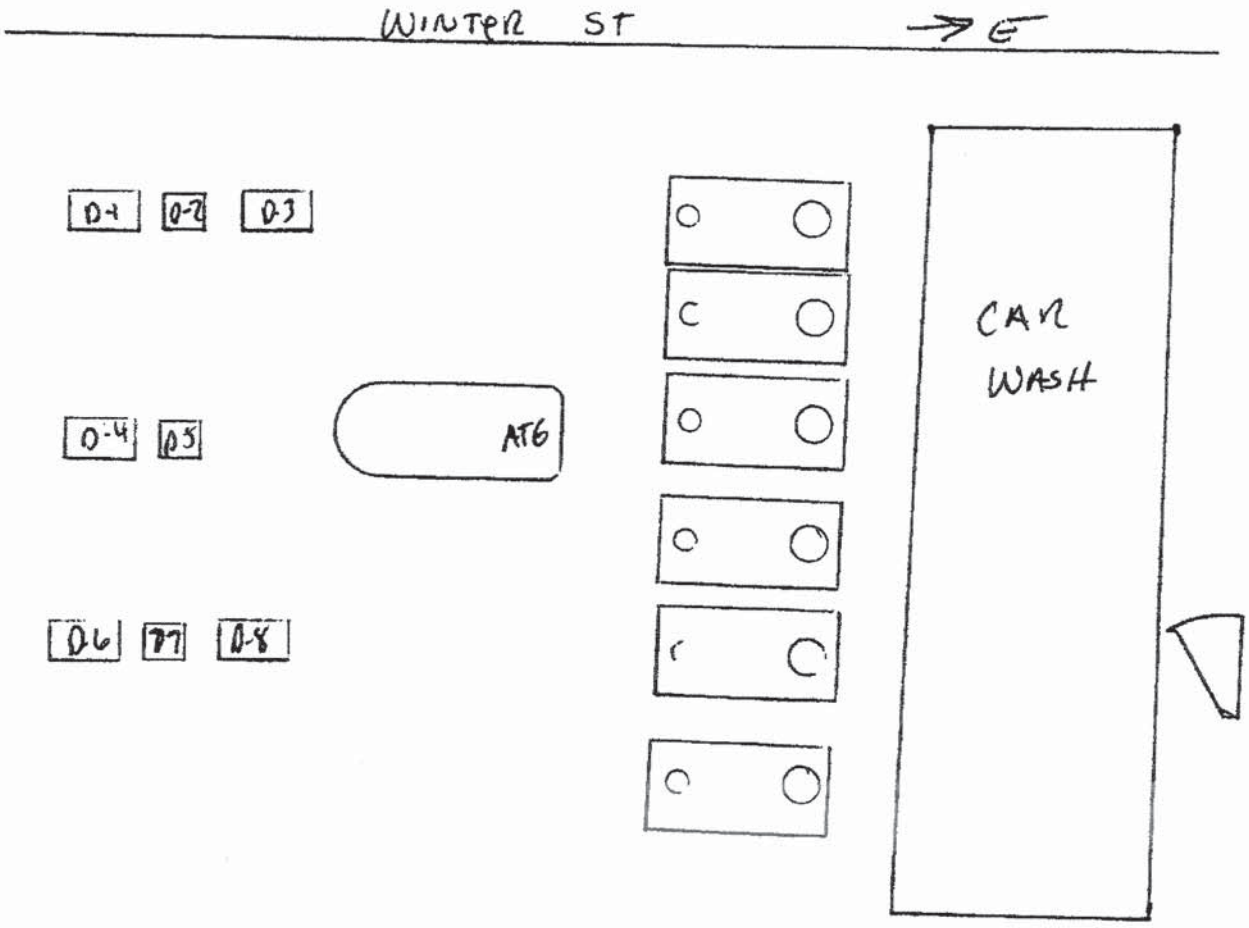
Section 2.B.: Tank Temporarily Closed or Taken Out of Service	Tank No. 5	Tank No. 6	Tank No.	Tank No.
Tank contains less than one inch of product	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Fill pipe locked or secured to prevent access	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Date tank was "temporarily closed" *(Month/Year)*				
Verify max time for Temp Out of Service: Single Wall Tanks - 6 months Double Wall Tanks- 24 months	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Fire Department Permit Posted	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
If tank is permanently closed, is FP-290R on file?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No

Inspector's Initials: PB
Date: 3-3-15

Owner/Operator's Initials:
Date: 3/3/15

Section 2.C.: Sketch a basic layout of the UST system(s)

For Split/Compartmented tanks label sections separately (for example 1A & 1B).



Inspector's Initials:
Date: 3-3-15

Owner/Operator's Initials:
Date: 3/3/15

	Section 3.A:	Automatic Tank Gauging (Tank Only)			
		Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
1	Console Make and Model	ECCO MAG	ECCO MAG	ECCO MAG	ECCO MAG
2	Probe Type Model- Fill out for each tank				
3	Frequency: How often does ATG perform test? *Continual Statistical Leak Detection (Daily)* *Six Hour In-Tank Test (Monthly)*	☐ Daily ☒ Monthly	☐ Daily ☒ Monthly	☐ Daily ☒ Monthly	☐ Daily ☒ Monthly
4	Device is calibrated, operated, and maintained per manufacturer's instructions *(example: frequency of service checks, etc.)*	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No
5	System setup reviewed. Proper settings were confirmed and are correct. Verification that all probes are functioning.	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No
6	Monitoring panel or control box is present and working.	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No
7	Tank is filled to proper capacity and test run for proper duration of time during the last 2 months, in accordance with manufacturer's instructions.	☒ Yes ☐ No ☐ New Tank	☒ Yes ☐ No ☐ New Tank	☒ Yes ☐ No ☐ New Tank	☒ Yes ☐ No ☐ New Tank
8	Owner's manual for console and probes is available at the site.	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No
9	Verification that console and probe are third-party approved.	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No
10	ATG meets minimum performance standards, with the probability of detection set at 0.95% and the probability of false alarm set at 0.05%	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No
11	Existing release detection results show no evidence of a release.	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No
12	ATG is checking the portion of the tank that routinely contains product, in accordance with manufacturer's instructions.	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No
13	Monthly release detection records are available for last 12 months. ATG records must show that 8 of the past 12 months have a passing test, without 2 consecutive months of inconclusive results.	☒ Yes ☐ No ☐ New Tank	☒ Yes ☐ No ☐ New Tank	☒ Yes ☐ No ☐ New Tank	☒ Yes ☐ No ☐ New Tank
14	Number of Passing Months	12	12	12	12
	Section 3.A. Passes if Blocks 4-13 are Yes or New Tank	☒ Pass ☐ Fail	☒ Pass ☐ Fail	☒ Pass ☐ Fail	☒ Pass ☐ Fail

If the answer to any question is No, please explain below. List any problems noted during inspection. Note corrections on addendum.

DEFICIENCIES:

FURTHER RECOMMENDATIONS:

Inspector's Initials:
Date: 3-3-15

Owner/Operator's Initials:
Date: 3/3/15

	Section 3.A:	Automatic Tank Gauging (Tank Only)			
		Tank No. 5	Tank No. 6	Tank No.	Tank No.
1	Console Make and Model	ECO-2000	ECO-2000		
2	Probe Type Model- Fill out for each tank	MA6	MAG		
3	Frequency: How often does ATG perform test? *Continual Statistical Leak Detection (Daily)* *Six Hour In-Tank Test (Monthly)*	☐ Daily ☒ Monthly	☐ Daily ☒ Monthly	☐ Daily ☐ Monthly	☐ Daily ☐ Monthly
4	Device is calibrated, operated, and maintained per manufacturer's instructions *(example: frequency of service checks, etc.)*	☒ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
5	System setup reviewed. Proper settings were confirmed and are correct. Verification that all probes are functioning.	☒ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
6	Monitoring panel or control box is present and working.	☒ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
7	Tank is filled to proper capacity and test run for proper duration of time during the last 2 months, in accordance with manufacturer's instructions.	☒ Yes ☐ No ☐ New Tank	☒ Yes ☐ No ☐ New Tank	☐ Yes ☐ No ☐ New Tank	☐ Yes ☐ No ☐ New Tank
8	Owner's manual for console and probes is available at the site.	☒ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
9	Verification that console and probe are third-party approved.	☒ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
10	ATG meets minimum performance standards, with the probability of detection set at 0.95% and the probability of false alarm set at 0.05%	☒ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
11	Existing release detection results show no evidence of a release.	☒ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
12	ATG is checking the portion of the tank that routinely contains product, in accordance with manufacturer's instructions.	☒ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
13	Monthly release detection records are available for last 12 months. ATG records must show that 8 of the past 12 months have a passing test, without 2 consecutive months of inconclusive results.	☒ Yes ☐ No ☐ New Tank	☒ Yes ☐ No ☐ New Tank	☐ Yes ☐ No ☐ New Tank	☐ Yes ☐ No ☐ New Tank
14	Number of Passing Months	12	12		
	Section 3.A. Passes if Blocks 4-13 are Yes or New Tank	☒ Pass ☐ Fail	☒ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail

If the answer to any question is No, please explain below. List any problems noted during inspection. Note corrections on addendum.

DEFICIENCIES:

FURTHER RECOMMENDATIONS:

Inspector's Initials: PAC
Date: 3-3-15

Owner/Operator's Initials:
Date: 3/3/15

Section 3.B.:		Continuous In-Tank Leak Detection System CLDS (Tank)			
		Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
1	Console Make and Model				
2	Probe Model. Fill in for each tank.				
3	Device is calibrated, operated, and maintained per manufacturer's instructions (example: frequency of service checks, etc.) including limitations listed on evaluation summary.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
4	System setup reviewed. Proper settings were confirmed and are correct. Verification that all probes are functioning.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
5	Monitoring panel or control box is present and working.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
6	Owner's manual for console and probes is available at site.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
7	Verify that console and probe are third-party approved.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
8	CLDS meets minimum performance standards, with the probability of detection set at 0.95% and the probability of false alarm set at 0.05%	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
9	Existing release detection results show no evidence of a release.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
10	CLDS is checking the portion of the tank that routinely contains product, in accordance with manufacturer's instructions.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
11	Monthly release detection records are available for last 12 months. CLDS records must show that 8 of the past 12 months have a passing test, without two consecutive months of inconclusive results.	☐ Yes ☐ No ☐ New Tank	☐ Yes ☐ No ☐ New Tank	☐ Yes ☐ No ☐ New Tank	☐ Yes ☐ No ☐ New Tank
12	Number of Passing Months				
	Section 3.B. Passes if Blocks 3 - 11 are Yes or New Tank	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail

If the answer to any question is No, please explain below. List any problems noted during inspection. Note corrections on addendum.

DEFICIENCIES:

FURTHER RECOMMENDATIONS:

Inspector's Initials:
Date: 3-3-15

Owner/Operator's Initials:
Date: 3/3/15

	Section 3.B.:	Continuous In-Tank Leak Detection System CLDS (Tank)			
		Tank No. 5	Tank No. 6	Tank No.	Tank No.
1	Console Make and Model				
2	Probe Model. Fill in for each tank.				
3	Device is calibrated, operated, and maintained per manufacturer's instructions (example: frequency of service checks, etc.) including limitations listed on evaluation summary.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
4	System setup reviewed. Proper settings were confirmed and are correct. Verification that all probes are functioning.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
5	Monitoring panel or control box is present and working.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
6	Owner's manual for console and probes is available at site.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
7	Verify that console and probe are third-party approved.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
8	CLDS meets minimum performance standards, with the probability of detection set at 0.95% and the probability of false alarm set at 0.05%	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
9	Existing release detection results show no evidence of a release.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
10	CLDS is checking the portion of the tank that routinely contains product, in accordance with manufacturer's instructions.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
11	Monthly release detection records are available for last 12 months. CLDS records must show that 8 of the past 12 months have a passing test, without two consecutive months of inconclusive results.	☐ Yes ☐ No ☐ New Tank	☐ Yes ☐ No ☐ New Tank	☐ Yes ☐ No ☐ New Tank	☐ Yes ☐ No ☐ New Tank
12	Number of Passing Months				
	Section 3.B. Passes if Blocks 3 - 11 are Yes or New Tank	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail

If the answer to any question is No, please explain below. List any problems noted during inspection. Note corrections on addendum.

DEFICIENCIES:

FURTHER RECOMMENDATIONS:

Inspector's Initials: PAO
Date: 3-3-15

Owner/Operator's Initials:
Date: 3/3/15

	Section 3.C.: Electronic or Manual	Interstitial Monitoring (Tank & Piping)			
		Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
1	Interstitial space is filled with liquid **(Brine)** or gas **(Dry)**.	☐ Brine ☐ Dry	☐ Brine ☐ Dry	☐ Brine ☐ Dry	☐ Brine ☐ Dry
2	Type of interstitial sensor. **(i.e., Liquid, Discriminating, Pressure)**	☐ Liquid ☐ Discriminating ☐ Pressure	☐ Liquid ☐ Discriminating ☐ Pressure	☐ Liquid ☐ Discriminating ☐ Pressure	☐ Liquid ☐ Discriminating ☐ Pressure
3	Console *make and mode:*				
4	Sensor *make and model*				
5	Monitoring console is operational.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
6	Interstitial sensor visually inspected, functionally tested, and confirmed operational.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
7	Sensor monitors the interstitial space in the appropriate position.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
8	Device is calibrated, operated, and maintained per manufacturer's instructions. *(example: frequency of service checks, etc.)*	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
9	Tanks Sump is clean and free of debris and water.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
10	Monthly release detection records are available for last 12 months. Interstitial monitoring must show that 8 of the past 12 months have passed with no more than two inconclusive records.	☐ Yes ☐ No ☐ New Tank	☐ Yes ☐ No ☐ New Tank	☐ Yes ☐ No ☐ New Tank	☐ Yes ☐ No ☐ New Tank
11	Number of passing months:				
	Section 3.C. Passes if Blocks 5 - 10 are Yes or New Tank	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail

If the answer to any question is No, please explain below. List any problems noted during inspection. Note corrections on addendum.

DEFICIENCIES:

FURTHER RECOMMENDATIONS:

Inspector's Initials: PAO
Date: 3·3·15

Owner/Operator's Initials:
Date: 3/3/15

	Section 3.C Electronic or Manual	Interstitial Monitoring (Tank & Piping)			
		Tank No. 5	Tank No. 6	Tank No.	Tank No.
1	Interstitial space is filled with liquid (Brine) or gas (Dry).	☐ Brine ☐ Dry	☐ Brine ☐ Dry	☐ Brine ☐ Dry	☐ Brine ☐ Dry
2	Type of interstitial sensor. (i.e., Liquid, Discriminating, Pressure)	☐ Liquid ☐ Discriminating ☐ Pressure	☐ Liquid ☐ Discriminating ☐ Pressure	☐ Liquid ☐ Discriminating ☐ Pressure	☐ Liquid ☐ Discriminating ☐ Pressure
3	Console *make and mode:*				
4	Sensor *make and model*				
5	Monitoring console is operational.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
6	Interstitial sensor visually inspected, functionally tested, and confirmed operational.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
7	Sensor monitors the interstitial space in the appropriate position.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
8	Device is calibrated, operated, and maintained per manufacturer's instructions. *(example: frequency of service checks, etc.)*	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
9	Tanks Sump is clean and free of debris and water.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
10	Monthly release detection records are available for last 12 months. Interstitial monitoring must show that 8 of the past 12 months have passed with no more than two inconclusive records.	☐ Yes ☐ No ☐ New Tank	☐ Yes ☐ No ☐ New Tank	☐ Yes ☐ No ☐ New Tank	☐ Yes ☐ No ☐ New Tank
11	Number of passing months:				
	Section 3.C. Passes if Blocks 5 - 10 are Yes or New Tank	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail

If the answer to any question is No, please explain below. List any problems noted during inspection. Note corrections on addendum.

DEFICIENCIES:

FURTHER RECOMMENDATIONS:

Inspector's Initials:
Date: 3-3-15

Owner/Operator's Initials:
Date: 3/3/15

Section 3.D		Statistical Inventory Reporting - Tank Only			
		Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
1	Method Name:				
2	Readings are recorded daily when operating.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
3	Inventory records are reconciled monthly.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
4	Appropriate calibration chart is used for calculating volume to nearest 1/8 inch.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
5	Stick readings are logged **before** each delivery.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
6	Stick readings are logged **after** each delivery.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
7	Gauge stick is marked to determine product level to the nearest 1/8 inch.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
8	Gauge stick can measure to full height of tank.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
9	Monthly water readings checked to the nearest 1/8 inch and used to calculate inventory balances. If water intrusion is noted, list in "Deficiencies."	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
10	Fill drop tube is installed and functional.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
11	Each dispenser is metered and recorded within state or local standards for meter calibration.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
12	Date meter calibrated:				
13	Total monthly overages [or shortages] are less than 130 gallons plus one percent of tank's flow-through (sales) volume for the last 12 months.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
14	SIR results received by owner from vendor within 30 days of submittal of data.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
15	SIR results indicate sufficient amount of data was used to perform leak check.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
16	Existing release detection results indicate operation without evidence of a release.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
17	Monthly release detection records are available for the last 12 months. Monitoring must show that eight of the past 12 months have a passing record, with no more than two consecutive months of inconclusive results. ***If No, report Leak to MassDEP.***	☐ Yes ☐ No ☐ New Tank	☐ Yes ☐ No ☐ New Tank	☐ Yes ☐ No ☐ New Tank	☐ Yes ☐ No ☐ New Tank
18	Number of passing months:				
	Section 3.D Passes if Blocks 2 – 11, & 13 – 17 are Yes or New Tank	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail

If the answer to any question is No, please explain below. List any problems noted during inspection. Note corrections on addendum.

DEFICIENCIES:

FURTHER RECOMMENDATIONS:

Inspector's Initials: PB
Date: 3-3-15

Owner/Operator's Initials: e
Date: 3/3/15

Section 3.D		Statistical Inventory Reporting - Tank Only			
		Tank No. 5	Tank No. 6	Tank No.	Tank No.
1	Method Name:				
2	Readings are recorded daily when operating.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
3	Inventory records are reconciled monthly.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
4	Appropriate calibration chart is used for calculating volume to nearest 1/8 inch.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
5	Stick readings are logged **before** each delivery.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
6	Stick readings are logged **after** each delivery.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
7	Gauge stick is marked to determine product level to the nearest 1/8 inch.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
8	Gauge stick can measure to full height of tank.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
9	Monthly water readings checked to the nearest 1/8 inch and used to calculate inventory balances. If water intrusion is noted, list in "Deficiencies."	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
10	Fill drop tube is installed and functional.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
11	Each dispenser is metered and recorded within state or local standards for meter calibration.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
12	Date meter calibrated:				
13	Total monthly overages [or shortages] are less than 130 gallons plus one percent of tank's flow-through (sales) volume for the last 12 months.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
14	SIR results received by owner from vendor within 30 days of submittal of data.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
15	SIR results indicate sufficient amount of data was used to perform leak check.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
16	Existing release detection results indicate operation without evidence of a release.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
17	Monthly release detection records are available for the last 12 months. Monitoring must show that eight of the past 12 months have a passing record, with no more than two consecutive months of inconclusive results. ***If No, report Leak to MassDEP.***	☐ Yes ☐ No ☐ New Tank	☐ Yes ☐ No ☐ New Tank	☐ Yes ☐ No ☐ New Tank	☐ Yes ☐ No ☐ New Tank
18	Number of passing months:				
	Section 3.D Passes if Blocks 2 – 11, & 13 – 17 are Yes or New Tank	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail

If the answer to any question is No, please explain below. List any problems noted during inspection. Note corrections on addendum.

DEFICIENCIES:

FURTHER RECOMMENDATIONS:

Inspector's Initials: PD
Date: 3·3·15

Owner/Operator's Initials:
Date: 3/3/15

	Section 3.E:	Periodic Tightness Testing - Non-European (Pipe)			
		Pipe No. 1	Pipe No. 2	Pipe No. 3	Pipe No. 4
1	Test method is a 0.1 gph tightness test.	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No
2	Method Name:	HASSTECH	ACCURITE	HASSTECH	
3	Tightness test performed by (Person or Company Name):	P.M. ENVIRO	NMENTAL	P.M. ENVIRO	
4	Last tightness test results available and passed. Shows no evidence of a potential release.	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No
5	Tightness testing is conducted within specified time frames for method; annually for pressurized piping; every 3 years for non-exempt suction piping.	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No
	Section 3.E Passes if Blocks 1, 4, 5 are Yes	☒ Pass ☐ Fail	☒ Pass ☐ Fail	☒ Pass ☐ Fail	☐ Pass ☐ Fail

If the answer to any question is No, please explain below. List any problems noted during inspection. Note corrections on addendum.

DEFICIENCIES:

FURTHER RECOMMENDATIONS:

	Section 3.F: Verify that suction piping system does not require release detection	European Suction (Pipe)			
		Pipe No. 1	Pipe No. 2	Pipe No. 3	Pipe No. 4
1	The piping slope is back to the tank and operates under atmospheric pressure or less.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☒ Yes ☐ No
2	Only one check valve is used.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☒ Yes ☐ No
3	The check valve is directly under the dispensing pump.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☒ Yes ☐ No
	Section 3.F Passes if Blocks 1-3 are Yes	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☒ Pass ☐ Fail
	If pipe system does not Pass, then another system is in use. Fill out the appropriate section.				

If the answer to any question is No, please explain below. List any problems noted during inspection. Note corrections on addendum.

DEFICIENCIES:

FURTHER RECOMMENDATIONS:

Inspector's Initials: PJO
Date: 3-3-15

Owner/Operator's Initials:
Date: 3/3/15

Section 3.E		Periodic Tightness Testing - Non-European (Pipe)			
		Pipe No. 5	Pipe No. 6	Pipe No.	Pipe No.
1	Test method is a 0.1 gph tightness test.	☐ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
2	Method Name:		HASSTECH		
3	Tightness test performed by (Person or Company Name):		P.M. ENVIRO		
4	Last tightness test results available and passed. Shows no evidence of a potential release.	☐ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
5	Tightness testing is conducted within specified time frames for method; annually for pressurized piping; every 3 years for non-exempt suction piping.	☐ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
	Section 3.E Passes if Blocks 1, 4, 5 are Yes	☐ Pass ☐ Fail	☒ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail

If the answer to any question is No, please explain below. List any problems noted during inspection. Note corrections on addendum.

DEFICIENCIES:

FURTHER RECOMMENDATIONS:

Section 3.F: Verify that suction piping system does not **require** release detection		European Suction (Pipe)			
		Pipe No. 5	Pipe No. 6	Pipe No.	Pipe No.
1	The piping slope is back to the tank and operates under atmospheric pressure or less.	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
2	Only one check valve is used.	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
3	The check valve is directly under the dispensing pump.	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
	Section 3.F Passes if Blocks 1-3 are Yes	☒ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail
	If pipe system does not Pass, then another system is in use. Fill out the appropriate section.				

If the answer to any question is No, please explain below. List any problems noted during inspection. Note corrections on addendum.

DEFICIENCIES:

FURTHER RECOMMENDATIONS:

Inspector's Initials: AO
Date: 3-3-15

Owner/Operator's Initials:
Date: 3/3/15

Section 3.G: Check type and functioning of ALLD	Annual Automatic Line Leak Detectors (ALLD) (Pressurized Piping Only)			
	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
1 Mechanical or Electronic	☒ Mechanical ☐ Electronic	☒ Mechanical ☐ Electronic	☒ Mechanical ☐ Electronic	☐ Mechanical ☐ Electronic
2 Make and Model	VL	VL	VL	
3 Automatic Shut-Off Device (S-O) Restrictor (R) Audible or Visible Alarm (A)	☐ Shut-Off ☒ Restrictor ☐ Alarm	☐ Shut-Off ☒ Restrictor ☐ Alarm	☐ Shut-Off ☒ Restrictor ☐ Alarm	☐ Shut-Off ☐ Restrictor ☐ Alarm
4 ALLD device is performing and operational at 3.0 gph @ 10 psi	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No
5 ALLD device is calibrated, operated, and maintained per manufacturer's instructions (example: frequency of service checks, etc.)	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No
6 ALLD has operated without evidence of a release.	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No
7 The entire piping system is covered by the ALLD.	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No
8 ALLD is third-party certified and passed an annual functional test each year prior to this inspection.	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No
All ALLDs must pass an annual functional (operations) test, in accordance with manufacturer's specifications, to assure it is properly installed, not tampered or bypassed, etc.				
Section 3.G. Passes if Blocks 4-8 are Yes	☒ Pass ☐ Fail	☒ Pass ☐ Fail	☒ Pass ☐ Fail	☐ Pass ☐ Fail

If the answer to any question is No, please explain below. List any problems noted during inspection. Note corrections on addendum.

DEFICIENCIES:

FURTHER RECOMMENDATIONS:

Inspector's Initials: [illegible]
Date: 3-3-15

Owner/Operator's Initials:
Date: 3/3/15

Section 3.G.: Check type and functioning of ALLD	Annual Automatic Line Leak Detectors (ALLD) (Pressurized Piping Only)			
	Tank No. 5	Tank No. 6	Tank No.	Tank No.
1 Mechanical or Electronic	☐ Mechanical ☐ Electronic	☒ Mechanical ☐ Electronic	☐ Mechanical ☐ Electronic	☐ Mechanical ☐ Electronic
2 Make and Model		FEP-MLD		
3 Automatic Shut-Off Device (S-O) Restrictor (R) Audible or Visible Alarm (A)	☐ Shut-Off ☐ Restrictor ☐ Alarm	☐ Shut-Off ☒ Restrictor ☐ Alarm	☐ Shut-Off ☐ Restrictor ☐ Alarm	☐ Shut-Off ☐ Restrictor ☐ Alarm
4 ALLD device is performing and operational at 3.0 gph @ 10 psi	☐ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
5 ALLD device is calibrated, operated, and maintained per manufacturer's instructions (example: frequency of service checks, etc.)	☐ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
6 ALLD has operated without evidence of a release.	☐ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
7 The entire piping system is covered by the ALLD.	☐ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
8 ALLD is third-party certified and passed an annual functional test each year prior to this inspection.	☐ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
All ALLDs must pass an annual functional (operations) test, in accordance with manufacturer's specifications, to assure it is properly installed, not tampered or bypassed, etc.				
Section 3.G Passes if Blocks 4–8 are Yes	☐ Pass ☐ Fail	☒ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail

If the answer to any question is No, please explain below. List any problems noted during inspection. Note corrections on addendum.

DEFICIENCIES:

FURTHER RECOMMENDATIONS:

Inspector's Initials: PJO
Date: 3-3-15

Owner/Operator's Initials:
Date: 3/3/15

Section 4 A.:		Spill Prevention			
		Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
1	Equipped with spill bucket minimum 3 gal capacity.	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No
2	Bucket is capable of returning product to the tank.	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No
3	Bucket is clean and free of debris and water.	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No
4	Bucket and cover is without cracks or holes observed.	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No
5	Fill pipe is without abnormalities observed (bent drop tubes, cracks or holes) especially at connection to tank and spill device	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No
	Section 4 A. Passes if Blocks 1-5 are Yes	☒ Pass ☐ Fail	☒ Pass ☐ Fail	☒ Pass ☐ Fail	☒ Pass ☐ Fail

If the answer to any question is No, please explain below. List any problems noted during inspection. Note corrections on addendum.

DEFICIENCIES:

FURTHER RECOMMENDATIONS:

Section 4.B.:		Overfill Prevention			
		Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
1	Overfill device present *(select primary)*: Automatic Shut-off float valve (AS) Ball Float Valve (BFV) High Level Alarm (HLA)	☐ AS ☒ BFV ☐ HLA	☐ AS ☒ BFV ☐ HLA	☐ AS ☒ BFV ☐ HLA	☐ AS ☒ BFV ☐ HLA
2	Indicate delivery method (gravity or metered flow)	☒ Gravity ☐ Metered	☒ Gravity ☐ Metered	☒ Gravity ☐ Metered	☒ Gravity ☐ Metered
3	Inspector verifies installation described below:	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No
	Required: the installation of A.) a device which shall automatically shut off flow into the tank when the tank is no more than 95% full or B.) a device that shall alert the individual delivering the product when the tank is no more than 90% full by restricting the flow into the tank or triggering a high level alarm.				
4	Owner/operator ensures releases due to spilling or overfilling do not occur. *For example, product is measured prior to each delivery to ensure enough room in tank for product; all fuel deliveries are monitored.*	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No
5	Visually observed overfill device housing; documentation of install provided; OR certification from service provider attesting to overfill device operability provided.	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No
6	**AS:** Visual observation indicates the drop tube is unobstructed (anything that would render the shut-off device ineffective).	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
7	**BFV:** Valve and/or vent restrictor material is compatible with UST system configuration, product, delivery, and use.	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No
8	**HLA:** Alarm is tested and is functioning properly at 90%, and is audible or visible to the driver at the point of transfer	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
	Section 4.A. Passes if Blocks 4-9 are Yes	☒ Pass ☐ Fail	☒ Pass ☐ Fail	☒ Pass ☐ Fail	☒ Pass ☐ Fail

If the answer to any question is No, please explain below. List any problems noted during inspection. Note corrections on addendum.

DEFICIENCIES:

FURTHER RECOMMENDATIONS:

Inspector's Initials: BJ
Date: 3-3-15

Owner/Operator's Initials:
Date: 3/3/15

Section 4 A.	Spill Prevention			
	Tank No. 5	Tank No. 6	Tank No.	Tank No.
1 Equipped with spill bucket minimum 3 gal capacity.	☒ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
2 Bucket is capable of returning product to the tank.	☒ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
3 Bucket is clean and free of debris and water.	☒ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
4 Bucket and cover is without cracks or holes observed.	☒ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
5 Fill pipe is without abnormalities observed (bent drop tubes, cracks or holes) especially at connection to tank and spill device.	☒ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Section 4.A. Passes if Blocks 1-5 are Yes	☒ Pass ☐ Fail	☒ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail

If the answer to any question is No, please explain below. List any problems noted during inspection. Note corrections on addendum.

DEFICIENCIES:

FURTHER RECOMMENDATIONS:

Section 4.B.	Overfill Prevention			
	Tank No. 5	Tank No. 6	Tank No.	Tank No.
1 Overfill device present *(select primary)*: Automatic Shut-off float valve (AS) Ball Float Valve (BFV) High Level Alarm (HLA)	☐ AS ☒ BFV ☐ HLA	☐ AS ☒ BFV ☐ HLA	☐ AS ☐ BFV ☐ HLA	☐ AS ☐ BFV ☐ HLA
2 Indicate delivery method (gravity or metered flow)	☒ Gravity ☐ Metered	☒ Gravity ☐ Metered	☐ Gravity ☐ Metered	☐ Gravity ☐ Metered
3 Inspector verifies installation described below:	☒ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Required: the installation of A.) a device which shall automatically shut off flow into the tank when the tank is no more than 95% full or B.) a device that shall alert the individual delivering the product when the tank is no more than 90% full by restricting the flow into the tank or triggering a high level alarm.				
4 Owner/operator ensures releases due to spilling or overfilling do not occur. *For example, product is measured prior to each delivery to ensure enough room in tank for product: all fuel deliveries are monitored.*	☒ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
5 Visually observed overfill device housing; documentation of install provided; OR certification from service provider attesting to overfill device operability provided.	☒ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
6 **AS:** Visual observation indicates the drop tube is unobstructed (anything that would render the shut-off device ineffective).	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
7 **BFV:** Valve and/or vent restrictor material is compatible with UST system configuration, product, delivery, and use.	☒ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
8 **HLA:** Alarm is tested and is functioning properly at 90%, and is audible or visible to the driver at the point of transfer.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Section 4 A. Passes if Blocks 4-9 are Yes	☒ Pass ☐ Fail	☒ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail

If the answer to any question is No, please explain below. List any problems noted during inspection. Note corrections on addendum.

DEFICIENCIES:

FURTHER RECOMMENDATIONS:

Inspector's Initials: DK
Date: 3-3-15

Owner/Operator's Initials:
Date: 3/3/15

	Section 5.A: Corrosion Prevention	Galvanic Cathodic Protection (tank and/or piping)			
		Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
1	Tank passed test in accordance with 527 CMR 9.05(H)	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
2	Pipe passed test in accordance with 527 CMR 9.05(H)	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
3	Current record of cathodic protection tests on file with owner or operator.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
4	CP tests performed by: *(Company Name)*				
5	Is inspection performed after repair of tank/piping?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
6	If yes, was cathodic protection system tested/inspected within 60 days of repair of UST system in accordance with 527 CMR 9.05(H)(6)	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
	Section 5.A. Passes if Blocks 1-3, 5 & 6 if applicable, are Yes	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail

If the answer to any question is No, please explain below. List any problems noted during inspection. Note corrections on addendum.

DEFICIENCIES:

FURTHER RECOMMENDATIONS:

	Section 5.B. Corrosion Prevention	Impressed Current Cathodic Protection (tank and/or piping)			
		Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
1	System has power and is turned on.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
2	60-day log is present and filled out properly in accordance with 527 CMR 9.05(H)	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
3	Tank passed test in accordance with 527 CMR 9.05(H)	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
4	Pipe passed test in accordance with 527 CMR 9.05(H)	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
5	Inspector verifies that inspection results are on file with local fire department.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
6	CP tests performed by:				
7	Is inspection after repair of tank/piping?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
8	If yes, was cathodic protection system tested/inspected within 60 days of repair of UST system in accordance with 527 CMR 9.05(H)(6)	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
	Section 5.B. Passes if Blocks 1-5, 7 & 8 if applicable, are Yes	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail

If the answer to any question is No, please explain below. List any problems noted during inspection. Note corrections on addendum.

DEFICIENCIES:

FURTHER RECOMMENDATIONS:

Inspector's Initials: AJO
Date: 3-3-15

Owner/Operator's Initials:
Date: 3/3/15

	Section 5.A.: Corrosion Prevention	Galvanic Cathodic Protection (tank and/or piping)			
		Tank No. 5	Tank No. 6	Tank No.	Tank No.
1	Tank passed test in accordance with 527 CMR 9.05(H)	☐ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
2	Pipe passed test in accordance with 527 CMR 9.05(H)	☐ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
3	Current record of cathodic protection tests on file with owner or operator.	☐ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
4	CP tests performed by: *(Company Name)*		**T WILLIAMS**		
5	Is inspection performed after repair of tank/piping?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
6	If yes, was cathodic protection system tested/inspected within 60 days of repair of UST system in accordance with 527 CMR 9.05(H)(6)	☐ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
	Section 5.A. Passes if Blocks 1-3, 5 & 6 if applicable, are Yes	☐ Pass ☐ Fail	☒ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail

If the answer to any question is No, please explain below. List any problems noted during inspection. Note corrections on addendum.

DEFICIENCIES:

FURTHER RECOMMENDATIONS:

	Section 5.B.: Corrosion Prevention	Impressed Current Cathodic Protection (tank and/or piping)			
		Tank No. 5	Tank No. 6	Tank No.	Tank No.
1	System has power and is turned on.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
2	60-day log is present and filled out properly in accordance with 527 CMR 9.05(H)	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
3	Tank passed test in accordance with 527 CMR 9.05(H)	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
4	Pipe passed test in accordance with 527 CMR 9.05(H)	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
5	Inspector verifies that inspection results are on file with local fire department.	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
6	CP tests performed by:				
7	Is inspection after repair of tank/piping?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
8	If yes, was cathodic protection system tested/inspected within 60 days of repair of UST system in accordance with 527 CMR 9.05(H)(6)	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
	Section 5.B. Passes if Blocks 1-5, 7 & 8 if applicable, are Yes	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail

If the answer to any question is No, please explain below. List any problems noted during inspection. Note corrections on addendum.

DEFICIENCIES:

FURTHER RECOMMENDATIONS:

Inspector's Initials: PJO
Date: 3-3-15

Owner/Operator's Initials:
Date: 3/3/15

	Section 5.C : Corrosion Prevention	Non-Metal Construction Material			
		Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
1	**Tank:** Outer wall made of non-metallic material such as fiberglass or fiberglass clad steel.	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No
2	**Pipe:** Outer wall made of non-metallic material such as fiberglass or corrugated plastic.	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No
3	None of the following conditions were observed in flexible piping: swelling, elongation, kinking, wrinkling, blistering, delaminating, softness, mold growth, or other abnormalities? Describe in deficiencies below.	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No
	Section 5.C Passes if Blocks 1-4, if applicable, are Yes	☒ Pass ☐ Fail	☒ Pass ☐ Fail	☒ Pass ☐ Fail	☒ Pass ☐ Fail

If the answer to any question is No, please explain below. List any problems noted during inspection. Note corrections on addendum.

DEFICIENCIES:

FURTHER RECOMMENDATIONS:

	Section 6 : Water Supply Information	
		FACILITY:
1	How is water supplied to your facility?	☐ Private Well ☒ Municipal Water Supply
	If private well, answer #2	
2	Do you serve water to at least 25 different people at least 60 days of the year? *Examples include: providing water to drink from faucets or bubblers; having restrooms; serving or selling coffee or other beverages made with, or mixed with water.*	☐ Yes ☐ No
	If yes, answer 3, 4, 5 & 6	
3	Do you have a Public Water System identification number (PWS ID#) from MassDEP?	☐ Yes ☐ No
4	If Yes, provide ID#:	
5	Verify that location of this well is shown on the sketch in Section 2.C. marked as DW.	☐ Yes ☐ No
6	Verify Emergency Call List posted with information that there is private well on site.	☐ Yes ☐ No
7	Verify that A, B & C operators have been trained	☐ Yes ☐ No
	Section 6 Passes if Block 3, 5-7 are Yes, Not Applicable if Public Water	☐ Pass ☐ Fail ☒ Not Apply

If the answer to any question is No, please explain below. List any problems noted during inspection. Note corrections on addendum.

DEFICIENCIES:

FURTHER RECOMMENDATIONS:

Inspector's Initials: PJO
Date: 3-3-15

Owner/Operator's Initials:
Date: 3/3/15

Section 5.C.: Corrosion Prevention		Non-Metal Construction Material			
		Tank No. 5	Tank No. 6	Tank No.	Tank No.
1	Tank: Outer wall made of non-metallic material such as fiberglass or fiberglass clad steel.	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
2	Pipe: Outer wall made of non-metallic material such as fiberglass or corrugated plastic.	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
3	None of the following conditions were observed in flexible piping: swelling, elongation, kinking, wrinkling, blistering, delaminating, softness, mold growth, or other abnormalities? Describe in deficiencies below	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
	Section 5.C. Passes if Blocks 1-4, if applicable, are Yes	☒ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail

If the answer to any question is No, please explain below. List any problems noted during inspection. Note corrections on addendum.

DEFICIENCIES:

FURTHER RECOMMENDATIONS:

Section 6.: Water Supply Information		
		FACILITY:
1	How is water supplied to your facility?	☐ Private Well ☒ Municipal Water Supply
	If private well, answer #2	
2	Do you serve water to at least 25 different people at least 60 days of the year? *Examples include: providing water to drink from faucets or bubblers; having restrooms; serving or selling coffee or other beverages made with, or mixed with water.*	☐ Yes ☐ No
	If yes, answer 3, 4, 5 & 6	
3	Do you have a Public Water System identification number (PWS ID#) from MassDEP?	☐ Yes ☐ No
4	If Yes, provide ID#:	
5	Verify that location of this well is shown on the sketch in Section 2.C. marked as DW.	☐ Yes ☐ No
6	Verify Emergency Call List posted with information that there is private well on site.	☐ Yes ☐ No
7	Verify that A, B & C operators have been trained	☐ Yes ☐ No
	Section 6. Passes if Block 3, 5-7 are Yes; Not Applicable if Public Water	☐ Pass ☐ Fail ☒ Not Apply

If the answer to any question is No, please explain below. List any problems noted during inspection. Note corrections on addendum.

DEFICIENCIES:

FURTHER RECOMMENDATIONS:

Inspector's Initials: PJO
Date: 3-3-15

Owner/Operator's Initials:
Date: 3/3/15

Section 7: Reporting of Release, Leak, Spill or Suspected Leak Information *Complete this section if you detect or suspect a leak or if you have done repairs to UST systems in response to any leak, spill, or failed tightness test that was reported to MassDEP.*		FACILITY: HEG #114
1	During this inspection, have you identified any releases, leaks, or suspected leaks that must be reported to MassDEP per the Massachusetts Contingency Plan (310 CMR 40.0300)? If YES, answer 2, 3, & 4	☐ Yes ☒ No
2	Date Reported:	
3	Time Reported:	(Use 24 hour clock)
4	Release Tracking Number (RTN):	
5	Has the system been taken off-line due to this leak or suspected leak?	☐ Yes ☐ No
6	Was a repair made due to a leak that was reported to MassDEP?	☐ Yes ☐ No
7	**Source of Release:**	☐ Tank
		☐ Piping
		☐ Dispenser
		☐ Submersible Turbine Pump
		☐ Delivery
	Other:	
8	**Cause of Release:**	☐ Spill
		☐ Overfill
		☐ Physical/Mechanical Damage
		☐ Corrosion
		☐ Installation Problem
	Other:	
Section 7 Pass if #1 = Yes AND Section 7 (#s 2-8) is filled out completely or Pass if #1 = No		☒ Pass ☐ Fail

STOP

REPORT ALL SPILLS, LEAKS, OR SUSPECTED LEAKS TO LOCAL FIRE DEPARTMENT AND MASSDEP CALL 888-304-1133

STOP

If the answer to any question is No, please explain below. List any problems noted during inspection. Note corrections on addendum.

DEFICIENCIES:

FURTHER RECOMMENDATIONS:

Section 8: General Comments

Use this section to list additional comments not listed in the previous pages. Attach another page if necessary.
Owners/operators are required to report unusual operating conditions to MassDEP. Were any unusual operating conditions observed?

Inspector's Initials: PA
Date: 3-3-15

Owner/Operator's Initials:
Date: 3/3/15

Certification

Section 1.C. License Information	
Is a license to store flammables/combustibles posted on site (Form FP-2)?	☒ Pass ☐ Fail ☐ N/A
Is a current certificate of registration posted on site (Form FP-5)?	☒ Pass ☐ Fail ☐ N/A
Is a current permit to maintain USTs posted on site (Form FP-290 part 3)?	☒ Pass ☐ Fail ☐ N/A
Is the current Form FP-290 accurate? *Sec. 1.A & 2. A.. must match the FP-290*	☒ Yes ☐ No
Verify that A, B, & C Operators have been trained.	☒ Pass ☐ Fail ☐ N/A
Attach most recent Form FP-290	☒ Attached

Section 9: Inspection Results	
Section 3.A: Automatic Tank Gauging	☒ Pass ☐ Fail ☐ N/A
Section 3.B: Continuous In-Tank Leak Detection System (CLDS)	☐ Pass ☐ Fail ☐ N/A
Section 3.C: Interstitial Monitoring	☐ Pass ☐ Fail ☐ N/A
Section 3.D: Statistical Inventory Reconciliation (SIR)	☐ Pass ☐ Fail ☐ N/A
Section 3.E: Periodic Tightness Testing	☒ Pass ☐ Fail ☐ N/A
Section 3.F: European Suction	☒ Pass ☐ Fail ☐ N/A
Section 3.G: Annual Automatic Line Leak Detectors	☒ Pass ☐ Fail ☐ N/A
Section 4.A: Spill Prevention	☒ Pass ☐ Fail ☐ N/A
Section 4.B: Overfill Prevention	☒ Pass ☐ Fail ☐ N/A
Section 5.A: Corrosion Prevention – Galvanic Cathodic	☐ Pass ☐ Fail ☐ N/A
Section 5.B: Corrosion Prevention – Impressed Current Cathodic	☐ Pass ☐ Fail ☐ N/A
Section 5.C: Corrosion Prevention – Non-Metal Construction Material	☒ Pass ☐ Fail ☐ N/A
Section 6: Water Supply Information	☐ Pass ☐ Fail ☒ N/A
Section 7: Reporting of Release, Spill, Suspected Leaks	☒ Pass ☐ Fail ☐ N/A

I, the Certified Inspector, have performed this UST Inspection and believe the contents of this report to be true and accurate at the time of inspection. I also have no significant financial interest with this UST.	I, the Owner/Operator *(circle one)*, have read this Inspection Report and have been told the condition of my UST facility, including all deficiencies, corrections and recommendations. *All applicable pages are initialed and included in this submittal.*
Facility # **5252**	Print Name: Patrick O'Connell
Print Name: **Peter O'Beirne**	Signature:
Signature:	Email: POconnell@energynorthgroup.com
Email: **peterobeirne@yahoo.com**	Phone: 978-640-1100
Phone: **(978) 526-8255**	Date: 3-3-15
Inspector ID: **1254** Date: 3-3-15	

Mail Completed Forms No Later Than 14 Days From the Date of the Inspection to:	Department of Environmental Protection Bureau of Waste Prevention – UST Program P.O. Box 120-0165 Boston, MA 02112-0165 and send copy to local fire department

Inspector's Initials: DM
Date: 3-3-15

Owner/Operator's Initials:
Date: 3/3/15

Section 10: Addendum		
Facility Name:	HEG #114 - 2	
DEP Facility ID Number:		*Required*

Use this section to note any deficiency corrections or repairs that were made ***after the initial inspection***. The UST third-party *Inspection* should be a 'snapshot' completed prior to any repairs or adjustments that would affect whether or not a UST would *pass* or *fail*. List each corrected item separately. If you have any questions, please call the MassDEP UST office at 617-556-1035. Use additional copies of this page if necessary.

Item 1.
Date of Work: Tank or Pipe # is now: ☐ Pass ☐Fail the Inspection (check one)

Description of Repair of Deficiency Correction:

UST Worker Name:
UST Worker Signature: Date: **3/3/2015**

Item 2.
Date of Work: Tank or Pipe # is now: ☐ Pass ☐Fail the Inspection (check one)

Description of Repair of Deficiency Correction:

UST Worker Name:
UST Worker Signature: Date: **3/3/2015**

Item 3.
Date of Work: Tank or Pipe # is now: ☐ Pass ☐Fail the Inspection (check one)

Description of Repair of Deficiency Correction:

UST Worker Name:
UST Worker Signature: Date: **3/3/2015**

Item 4.
Date of Work: Tank or Pipe # is now: ☐ Pass ☐Fail the Inspection (check one)

Description of Repair of Deficiency Correction:

UST Worker Name:
UST Worker Signature: Date: **3/3/2015**

Mail Completed Forms No Later Than 14 Days From the Date of the Inspection to:	Department of Environmental Protection Bureau of Waste Prevention – UST Program P.O. Box 120-0165 Boston, MA 02112-0165 and send copy to local fire department

Inspector's Initials:
Date: 3-3-15

Owner/Operator's Initials:
Date: 3/3/15

P.M. ENVIRONMENTAL INC.

MESA – 2 – D

TESTING

CERTIFICATION REPORT

MESA 2-D Tank Test

Job No:	35012101 T1	Customer:	HEG #114
Date:	1/20/2015	Location/Site Address:	284 WINTER STREET, HAVERHILL
Technician:	STEPHEN SEES	Phone:	
Lic./Cert.#:	M/MA 229	Facility ID: 5252	Province: MA

Tank Testing Results Summary

Tank Number	Capacity	Contents	MESA 2-D Test Result
1	20,000	Premium/Super	Pass

Comments:

MESA 2-D Tank Test

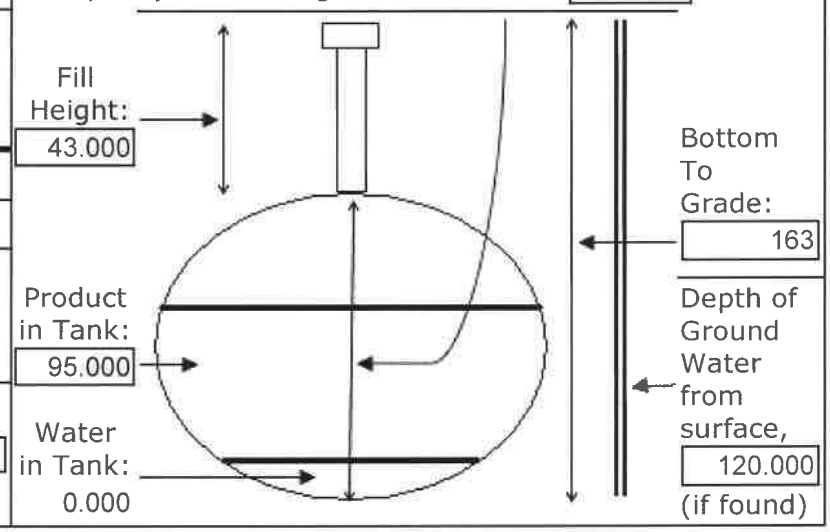
Job No: 35012101 T1		Customer: HEG #114	
Date: 1/20/2015		Location/Site Address: 284 WINTER STREET, HAVERHILL	
Technician: STEPHEN SEES		Phone:	
Lic./Cert.#: M/MA 229	Facility ID: 5252		Province: MA

General Tank Information

Underground Storage Tank — Fiberglass Reinforced Plastic ...

Tank# 1	Location SUPER	Retest? No	Isolated? Yes

Product: Premium/Super	Capacity: 20,000 gal. Diameter: 120 inches
Start Total Liquid: 95.000	
Start Water (in.): 0.000	
Start Fuel (in.): 95.000	
Prod. specific gravity: 0.7370	
Tank bottom to grade: 163	
Minimum depth of sample required to test ground water (includes 2 in. add'l) 94.985	



Pressure Sensor Calculation (Tank #1)

Depth of Groundwater from Grade: 120.000

Inches of Water Outside Tank: 43.000

Depth of Groundwater Determined:
by: STICK
where: MONITORING WELL

	60.000	Normal Pressure
	23.729	
Test Pressure:	83.729	**Inches of Water Column**

Water Sensor Calibration (Tank #1)

Added:	Calibration #1	Calibration #2	Calibration #3	Average:
Average ÷ 3780= "A" factor:			÷ 0.05	= Time of Test:
Water Test Intrusion Period		Test Began:		Test Ended:

Mesa 2-D Test Results (Tank #1)

Sonde Serial #	SB0159	Calibration Test: Pass	
Vacuum Pressure Start: 70		Vacuum Pressure Finish: 70	
Vacuum Start Time: 9:10 AM	Vacuum Finish Time: 9:25 AM	Total Vacuum Time:	
MESA 2-D Result: Pass			
End Total Liquid: 95.000	End Water: 0.000	End Fuel: 95.000	

Test Number 35012101 T1

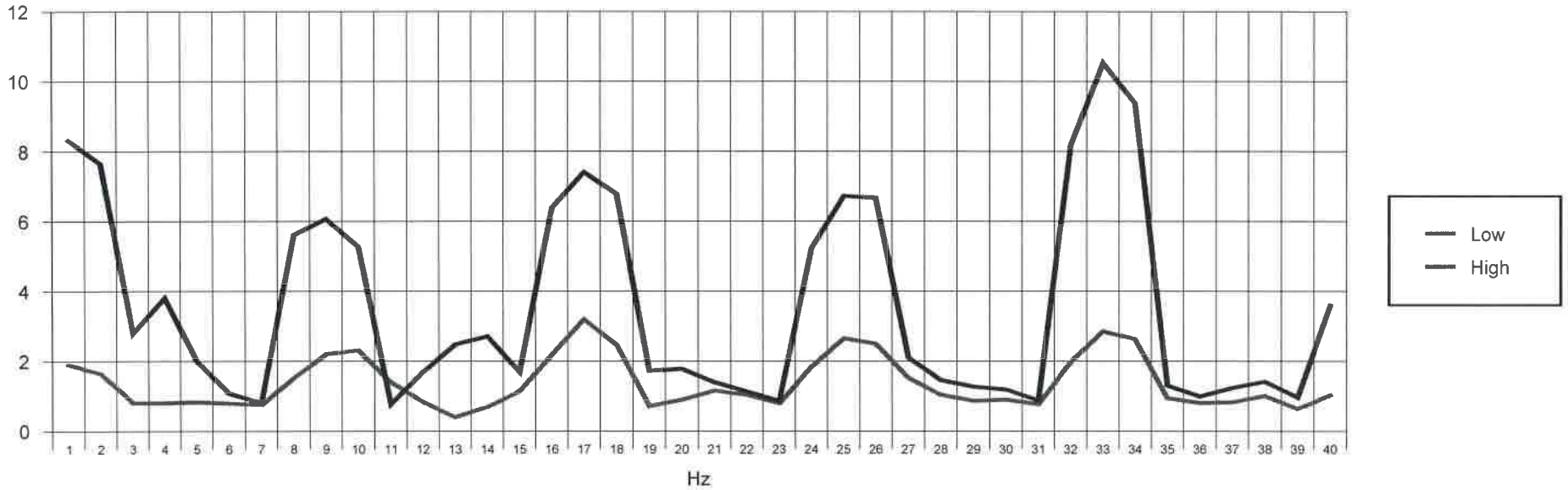
P.M. ENVIRONMENTAL INC.

PLOT OF DIGITAL TANK TEST DATA

HEG #114
HAVERHILL, MA

20,000 SUPER Tank (Fiberglass)
Water level: 0", Fuel level: 95"

Amplitude Ratios: Low Band (12.0 kHz) , High Band (24.0 kHz)



Low Band Ratio = 0.004127 / 0.002904 = 1.421 High Band Ratio = 0.002047 / 0.002407 = 0.850 Threshold = 1.5

Test Result = Pass
Date and Time of Test: 1/21/2015 09:28
Test Vacuum was 70" of Water

MESA 2-D Tank Test

Job No:	35012101 T2	Customer:	HEG #114
Date:	1/20/2015	Location/Site Address:	284 WINTER STREET, HAVERHILL
Technician:	STEPHEN SEES	Phone:	
Lic./Cert.#:	M/MA 229	Facility ID: 5252	Province: MA

Tank Testing Results Summary

Tank Number	Capacity	Contents	MESA 2-D Test Result
2	20,000	Midgrade/Plus	Pass

Comments:

MESA 2-D Tank Test

Job No:	35012101 T2	Customer:	HEG #114
Date:	1/20/2015	Location/Site Address:	284 WINTER STREET, HAVERHILL
Technician:	STEPHEN SEES	Phone:	
Lic./Cert.#:	M/MA 229	Facility ID: 5252	Province: MA

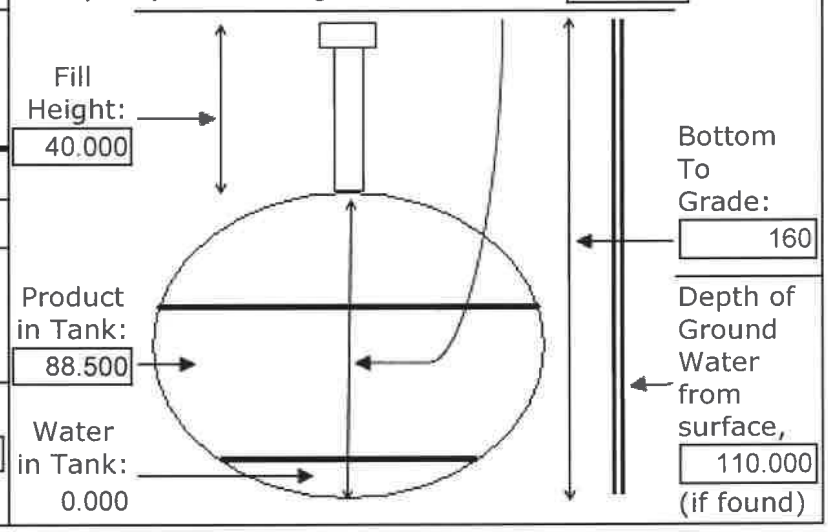
General Tank Information

Underground Storage Tank — Fiberglass Reinforced Plastic ...

Tank# 2	Location PLUS	Retest? No	Isolated? Yes

Product: Midgrade/Plus	
Start Total Liquid:	88.500
Start Water (in.):	0.000
Start Fuel (in.):	88.500
Prod. specific gravity:	0.7370
Tank bottom to grade:	160
Minimum depth of sample required to test ground water (includes 2 in. add'l)	96.776

Capacity: 20,000 gal. Diameter: 120 inches



Pressure Sensor Calculation (Tank #2)

Depth of Groundwater from Grade:	110.000	Depth of Groundwater Determined: by:	STICK
Inches of Water Outside Tank:	50.000	where:	MONITORING WELL
		60.000	Normal Pressure
		18.949	
	Test Pressure:	78.949	**Inches of Water Column**

Water Sensor Calibration (Tank #2)

Added:	Calibration #1	Calibration #2	Calibration #3	Average:
Average ÷ 3780= "A" factor:			÷ 0.05	= Time of Test:
Water Test Intrusion Period		Test Began:		Test Ended:

Mesa 2-D Test Results (Tank #2)

Sonde Serial #	SB0159	Calibration Test: Pass	
Vacuum Pressure Start: 60		Vacuum Pressure Finish: 60	
Vacuum Start Time: 9:50 AM	Vacuum Finish Time: 10:00 AM	Total Vacuum Time:	
MESA 2-D Result: Pass			
End Total Liquid: 88.500	End Water: 0.000	End Fuel: 88.500	

Test Number 35012101 T2

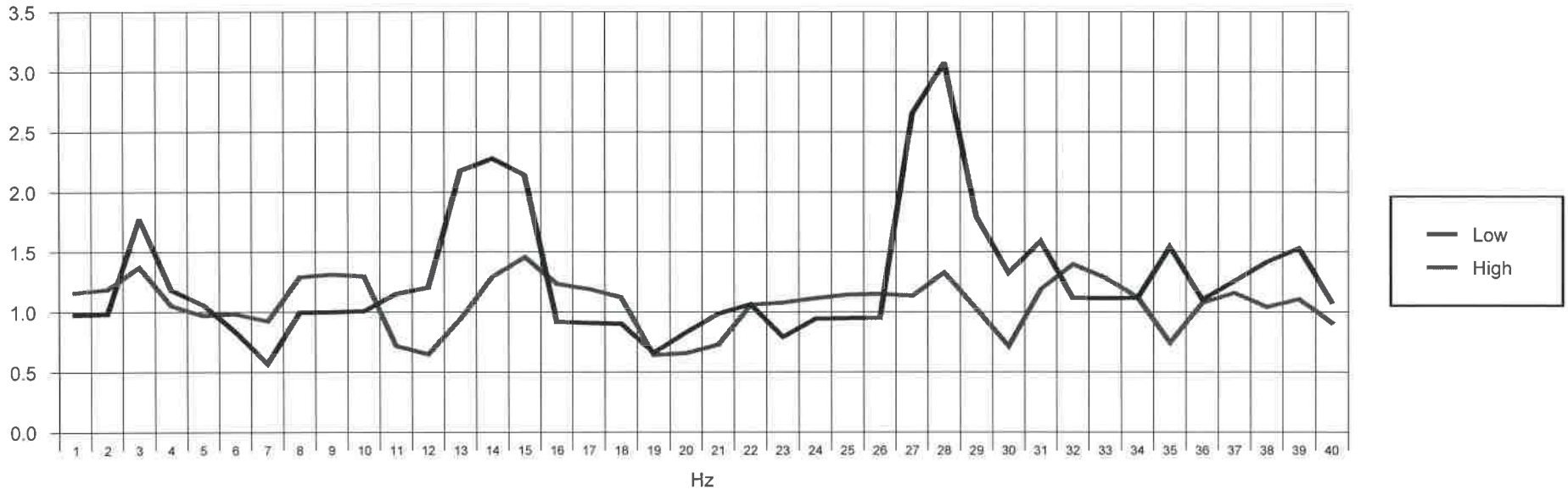
P.M. ENVIRONMENTAL INC.

PLOT OF DIGITAL TANK TEST DATA

HEG #114
HAVERHILL, MA

20,000 PLUS Tank (Fiberglass)
Water level: 0", Fuel level: 88.5"

Amplitude Ratios: Low Band (12.0 kHz) , High Band (24.0 kHz)



Low Band Ratio = 0.001316 / 0.000983 = 1.339 High Band Ratio = 0.000734 / 0.000719 = 1.021 Threshold = 1.5

Test Result = Pass
Date and Time of Test: 01/21/2015 10:04
Test Vacuum was 60" of Water

MESA 2-D Tank Test

Job No:	35012101 T3	Customer:	HEG #114
Date:	1/20/2015	Location/Site Address:	284 WINTER STREET, HAVERHILL
Technician:	STEPHEN SEES	Phone:	
Lic./Cert.#:	M/MA 229	Facility ID: 5252	Province: MA

Tank Testing Results Summary

Tank Number	Capacity	Contents	MESA 2-D Test Result
3	20,000	Regular	Pass

Comments:

MESA 2-D Tank Test

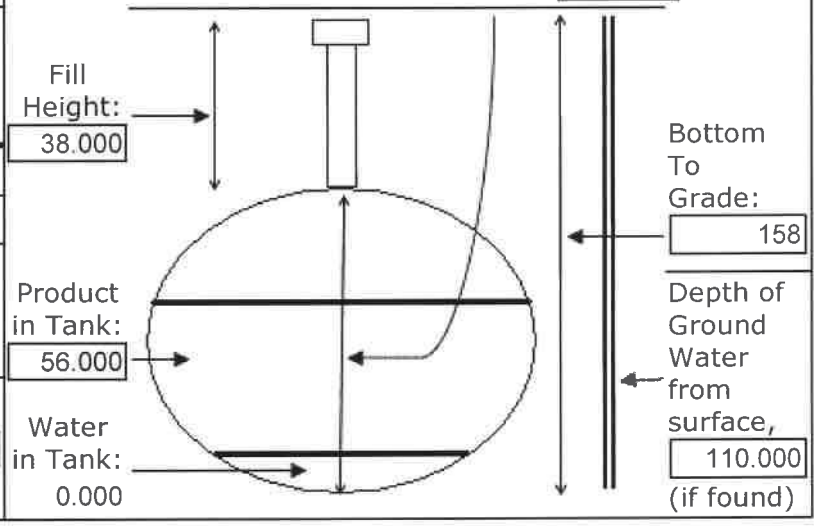
Job No: 35012101 T3		Customer: HEG #114	
Date: 1/20/2015		Location/Site Address: 284 WINTER STREET, HAVERHILL	
Technician: STEPHEN SEES		Phone:	
Lic./Cert.#: M/MA 229	Facility ID: 5252		Province: MA

General Tank Information Underground Storage Tank Fiberglass Reinforced Plastic ...

Tank# 3	Location REGULAR	Retest? No	Isolated? Yes

Product: Regular	
Start Total Liquid:	56.000
Start Water (in.):	0.000
Start Fuel (in.):	56.000
Prod. specific gravity:	0.7370
Tank bottom to grade:	158
Minimum depth of sample required to test ground water (includes 2 in. add'l)	118.728

Capacity: 20,000 gal. Diameter: 120 inches



Pressure Sensor Calculation (Tank #3)

Depth of Groundwater from Grade:	110.000	Depth of Groundwater Determined: by:	STICK
Inches of Water Outside Tank:	48.000	where:	MONITORING WELL
		60.000	Normal Pressure
		-6.839	Pressure Adjustment
	Test Pressure:	53.161	**Inches of Water Column**

Water Sensor Calibration (Tank #3)

Added:	Calibration #1	Calibration #2	Calibration #3	Average:
Average ÷ 3780= "A" factor:			÷ 0.05	= Time of Test:
Water Test Intrusion Period		Test Began:		Test Ended:

Mesa 2-D Test Results (Tank #3)

Sonde Serial #	SB0159	Calibration Test: Pass	
Vacuum Pressure Start: 50		Vacuum Pressure Finish: 50	
Vacuum Start Time: 10:10 AM	Vacuum Finish Time: 10:25 AM	Total Vacuum Time:	
MESA 2-D Result: Pass			
End Total Liquid: 56.000	End Water: 0.000	End Fuel: 56.000	

Test Number 35012101 T3

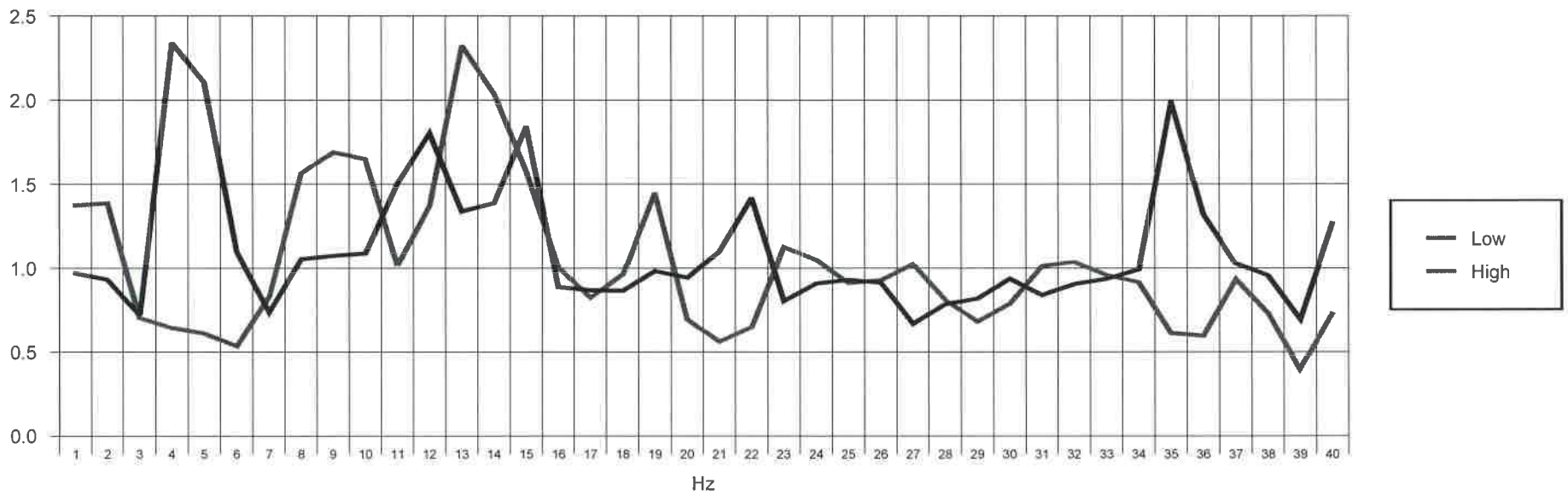
P.M. ENVIRONMENTAL INC

PLOT OF DIGITAL TANK TEST DATA

HEG #114
HAVERHILL, MA

20,000 REGULAR Tank (Fiberglass)
Water level: 0", Fuel level: 56"

Amplitude Ratios: Low Band (12.0 kHz) , High Band (24.0 kHz)



Low Band Ratio = 0.008697 / 0.007637 = 1.139 High Band Ratio = 0.001825 / 0.002112 = 0.864 Threshold = 1.5

Test Result = Pass
Date and Time of Test: 01/21/2015 10:28
Test Vacuum was 50" of Water

MESA 2-D Tank Test

Job No:	35012101 T4	Customer:	HEG #114
Date:	1/20/2015	Location/Site Address:	284 WINTER STREET, HAVERHILL
Technician:	STEPHEN SEES	Phone:	
Lic./Cert.#:	M/MA 229	Facility ID: 5252	Province: MA

Tank Testing Results Summary

Tank Number	Capacity	Contents	MESA 2-D Test Result
4	20,000	#2 oil	Pass

Comments:

MESA 2-D Tank Test

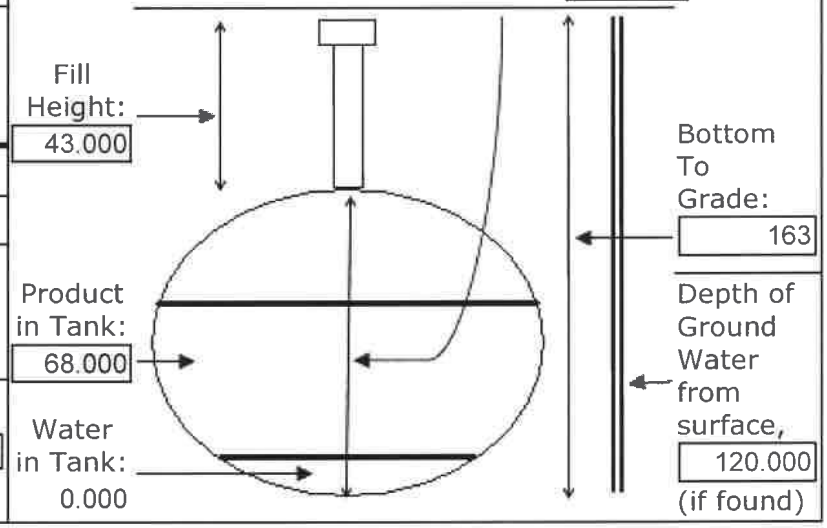
Job No:	35012101 T4	Customer:	HEG #114
Date:	1/20/2015	Location/Site Address:	284 WINTER STREET, HAVERHILL
Technician:	STEPHEN SEES	Phone:	
Lic./Cert.#:	M/MA 229	Facility ID: 5252	Province: MA

General Tank Information

Underground Storage Tank — Fiberglass Reinforced Plastic ...

Tank# 4	Location FUEL OIL - 1	Retest? No	Isolated? Yes

Product: #2 oil	Capacity: 20,000 gal. Diameter: 120 inches
Start Total Liquid:	68.000
Start Water (in.):	0.000
Start Fuel (in.):	68.000
Prod. specific gravity:	0.8600
Tank bottom to grade:	163
Minimum depth of sample required to test ground water (includes 2 in. add'l)	106.520



Pressure Sensor Calculation (Tank #4)

Depth of Groundwater from Grade:	120.000	Depth of Groundwater Determined: by:	STICK
Inches of Water Outside Tank:	43.000	where:	MONITORING WELL
		60.000	Normal Pressure
		12.218	
	Test Pressure:	72.218	**Inches of Water Column**

Water Sensor Calibration (Tank #4)

Added:	Calibration #1	Calibration #2	Calibration #3	Average:
Average ÷ 3780= "A" factor:			÷ 0.05	= Time of Test:
Water Test Intrusion Period		Test Began:		Test Ended:

Mesa 2-D Test Results (Tank #4)

Sonde Serial #	SB0159	Calibration Test: Pass	
Vacuum Pressure Start: 60		Vacuum Pressure Finish: 60	
Vacuum Start Time: 8:30 AM	Vacuum Finish Time: 8:40 AM	Total Vacuum Time:	
MESA 2-D Result: Pass			
End Total Liquid: 68.000	End Water: 0.000	End Fuel: 68.000	

Test Number 35012101 T4

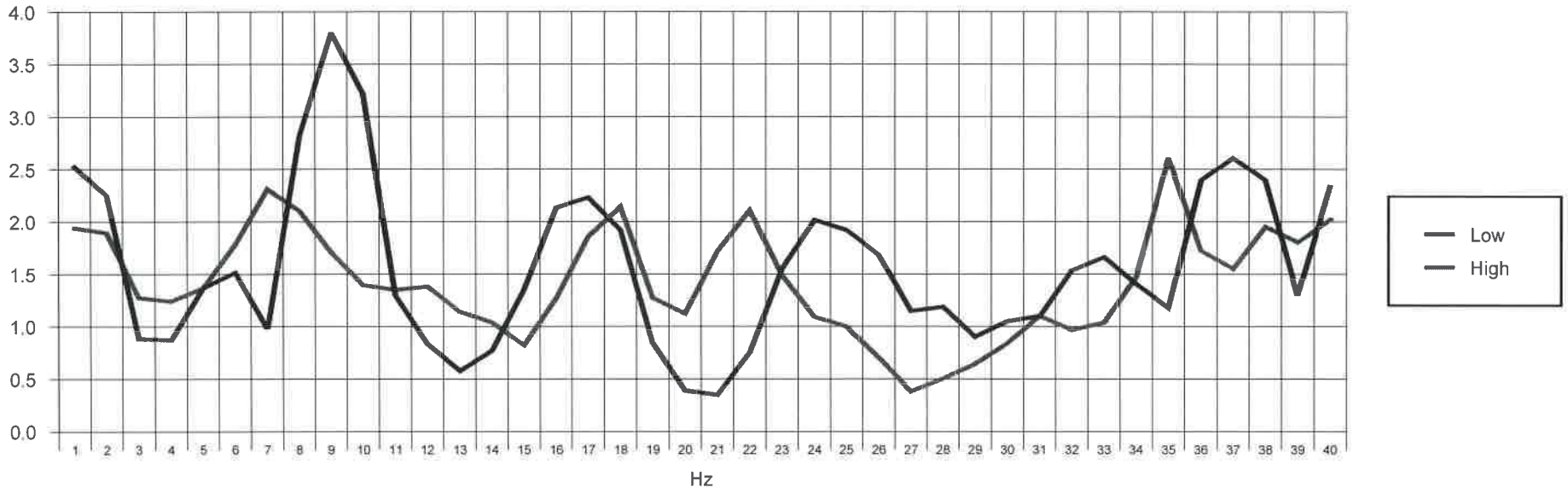
P.M. ENVIRONMENTAL INC.

PLOT OF DIGITAL TANK TEST DATA

HEG #114
HAVERHILL, MA

20,000 #2 FUEL OIL Tank (Fiberglass)
Water level: 0", Fuel level: 68"

Amplitude Ratios: Low Band (12.0 kHz) , High Band (24.0 kHz)



Low Band Ratio = 0.001092 / 0.001079 = 1.012 High Band Ratio = 0.000900 / 0.000656 = 1.372 Threshold = 1.5

Test Result = Pass
Date and Time of Test: 01/21/2015 08:45
Test Vacuum was 60" of Water

MESA 2-D Tank Test

Job No:	35012101 T5	Customer:	HEG #114
Date:	1/20/2015	Location/Site Address:	284 WINTER STREET, HAVERHILL
Technician:	STEPHEN SEES	Phone:	
Lic./Cert.#:	M/MA 229	Facility ID: 5252	Province: MA

Tank Testing Results Summary

Tank Number	Capacity	Contents	MESA 2-D Test Result
5	20,000	#2 oil	Pass

Comments:

MESA 2-D Tank Test

Job No:	35012101 T5	Customer:	HEG #114
Date:	1/20/2015	Location/Site Address:	284 WINTER STREET, HAVERHILL
Technician:	STEPHEN SEES	Phone:	
Lic./Cert.#:	M/MA 229	Facility ID: 5252	Province: MA

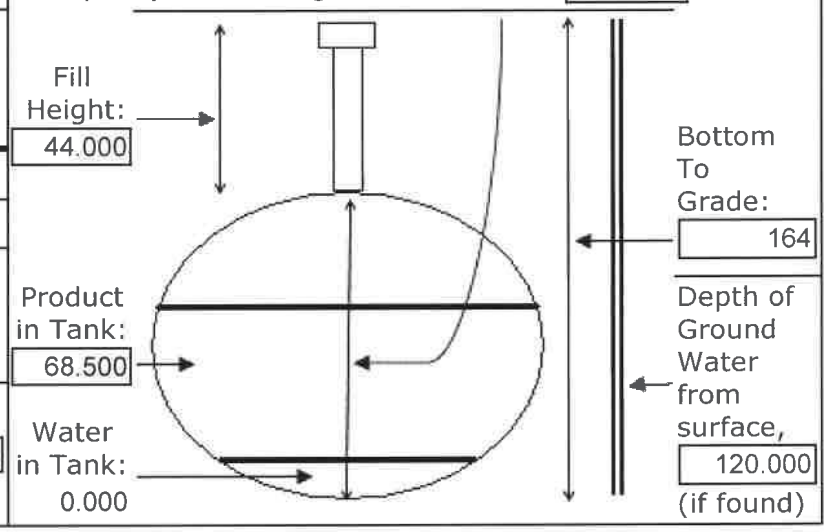
General Tank Information

Underground Storage Tank — Fiberglass Reinforced Plastic ...

Tank# 5	Location FUEL OIL - 2	Retest? No	Isolated? Yes

Product: #2 oil	
Start Total Liquid:	68.500
Start Water (in.):	0.000
Start Fuel (in.):	68.500
Prod. specific gravity:	0.8600
Tank bottom to grade:	164
Minimum depth of sample required to test ground water (includes 2 in. add'l)	107.090

Capacity: 20,000 gal. Diameter: 120 inches



Pressure Sensor Calculation (Tank #5)

Depth of Groundwater Determined:

Depth of Groundwater from Grade: 120.000 — by: STICK

Inches of Water Outside Tank: 44.000 — where: MONITORING WELL

	60.000	Normal Pressure
	12.647	
Test Pressure:	72.647	**Inches of Water Column**

Water Sensor Calibration (Tank #5)

Added:	Calibration #1	Calibration #2	Calibration #3	Average:
Average ÷ 3780= "A" factor:			÷ 0.05	= Time of Test:
Water Test Intrusion Period		Test Began:		Test Ended:

Mesa 2-D Test Results (Tank #5)

Sonde Serial #	SB0159	Calibration Test: Pass	
Vacuum Pressure Start: 60		Vacuum Pressure Finish: 60	
Vacuum Start Time: 8:10 AM	Vacuum Finish Time: 8:20	Total Vacuum Time:	
MESA 2-D Result: Pass			
End Total Liquid: 68.500	End Water: 0.000	End Fuel: 68.500	

Test Number 35012101 T5

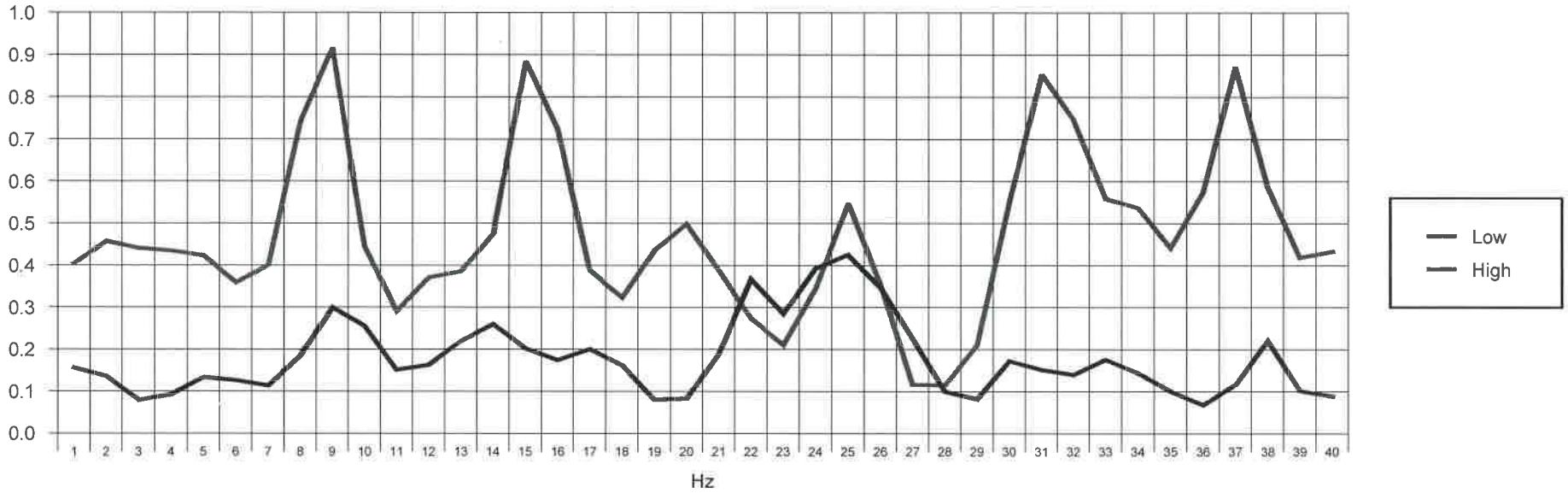
P.M. ENVIRONMENTAL INC.

PLOT OF DIGITAL TANK TEST DATA

HEG #114
HAVERHILL, MA

20,000 #2 FUEL OIL Tank (Fiberglass)
Water level: 0", Fuel level: 68.5"

Amplitude Ratios: Low Band (12.0 kHz) , High Band (24.0 kHz)



Low Band Ratio = 0.002751 / 0.018264 = 0.151 High Band Ratio = 0.001551 / 0.003454 = 0.449 Threshold = 1.5

Test Result = Pass
Date and Time of Test: 01/21/2015 08:22
Test Vacuum was 60 of Water

MESA 2-D Tank Test

Job No:	35012101 T6	Customer:	HEG #114
Date:	1/20/2015	Location/Site Address:	284 WINTER STREET, HAVERHILL
Technician:	STEPHEN SEES	Phone:	
Lic./Cert.#:	M/MA 229	Facility ID: 5252	Province: MA

Tank Testing Results Summary

Tank Number	Capacity	Contents	MESA 2-D Test Result
6	6,000	Diesel	Pass

Comments:

MESA 2-D Tank Test

Job No: 35012101 T6		Customer: HEG #114	
Date: 1/20/2015		Location/Site Address: 284 WINTER STREET, HAVERHILL	
Technician: STEPHEN SEES		Phone:	
Lic./Cert.#: M/MA 229	Facility ID: 5252		Province: MA

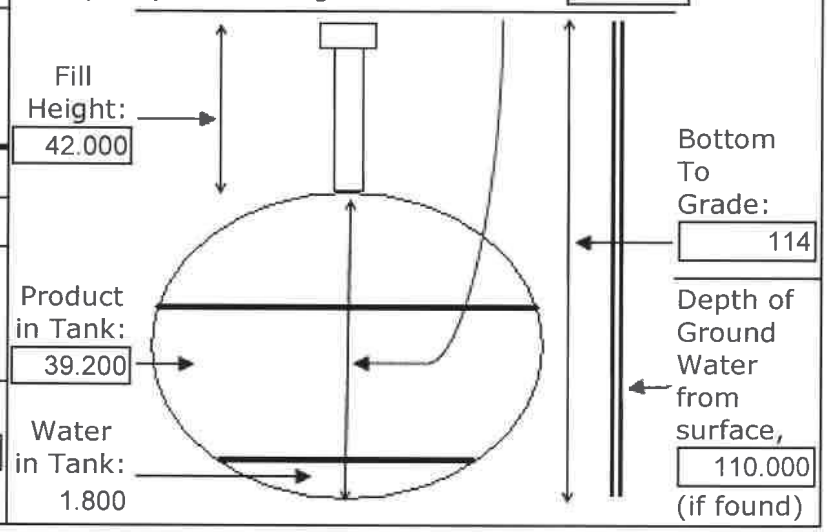
General Tank Information

Underground Storage Tank — Steel

Tank# 6	Location DIESEL	Retest? No	Isolated? Yes

Product: Diesel	
Start Total Liquid:	41.000
Start Water (in.):	1.800
Start Fuel (in.):	39.200
Prod. specific gravity:	0.8600
Tank bottom to grade:	114
Minimum depth of sample required to test ground water (includes 2 in. add'l)	80.488

Capacity: 6,000 gal. Diameter: 72 inches



Pressure Sensor Calculation (Tank #6)

Depth of Groundwater from Grade: 110.000

Inches of Water Outside Tank: 4.000

Depth of Groundwater Determined:
by: STICK
where: MONITORING WELL

60.000 Normal Pressure

Test Pressure: 60.000 **Inches of Water Column**

Water Sensor Calibration (Tank #6)

Added:	Calibration #1	Calibration #2	Calibration #3	Average:
Average ÷ 3780= "A" factor:			÷ 0.05	= Time of Test:
Water Test Intrusion Period		Test Began:		Test Ended:

Mesa 2-D Test Results (Tank #6)

Sonde Serial #	SB0159	Calibration Test: Pass	
Vacuum Pressure Start: 60		Vacuum Pressure Finish: 60	
Vacuum Start Time: 11:05 AM	Vacuum Finish Time: 11:15 AM	Total Vacuum Time:	
MESA 2-D Result: Pass			
End Total Liquid: 41.000	End Water: 0.000	End Fuel: 41.000	

Test Number 35012101 T6

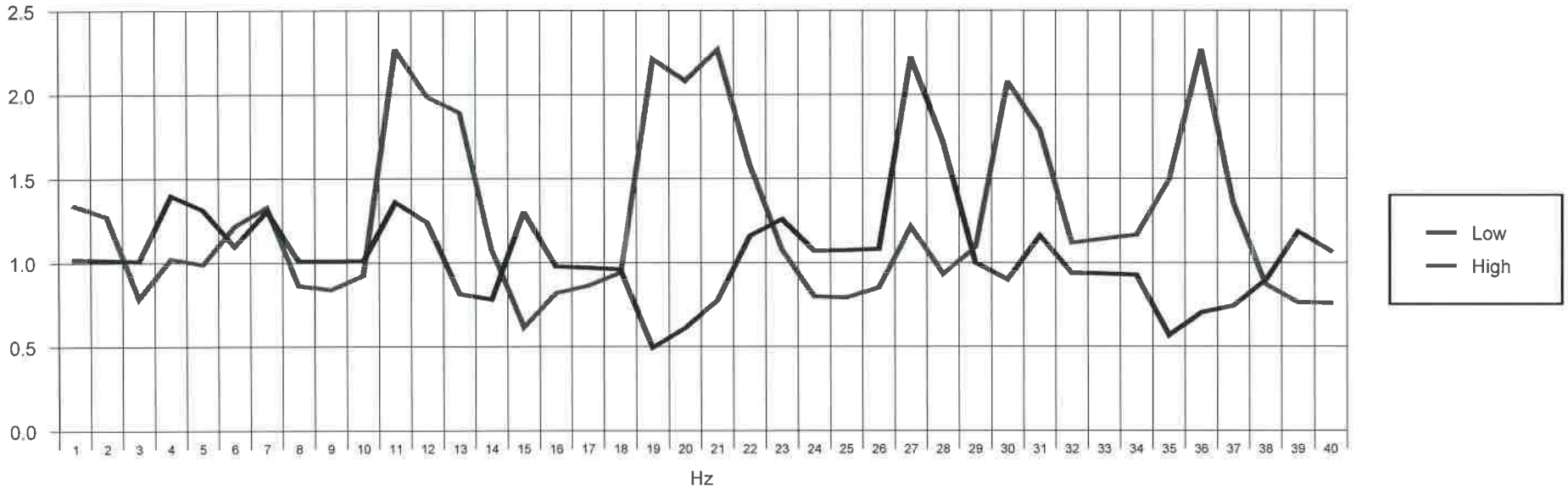
P.M. ENVIRONMENTAL INC.

PLOT OF DIGITAL TANK TEST DATA

HEG #114
HAVERHILL, MA

6,000 DIESEL Tank (Steel)
Water level: 0", Fuel level: 41"

Amplitude Ratios: Low Band (12.0 kHz) , High Band (24.0 kHz)



Low Band Ratio = 0.001777 / 0.001737 = 1.023 High Band Ratio = 0.000878 / 0.000655 = 1.340 Threshold = 1.5

Test Result = Pass
Date and Time of Test: 01/21/2015 11:17
Test Vacuum was 60" of Water

Single Line Test Data Sheet

Hasstech Acurite Pipeline Tester

Location: H E G # 114
284 Winter Street
Haverhill MA 01830

Test #: 35012001
Test Date: 1/20/2015
Operator: Peter O'Beirne

	Product	Product	Product	Product
Product	Diesel	Super	Regular	Plus
Pump Manufacturer	RED JACKET	F E PETROL	F EPETROL	F E PETROL
Isolation Mechanism (pump)	B VALVE	B VALVE	B VALVE	B VALVE
Isolation Mechanism (dispenser)	SNAPTC	SNAPTC	SANPTTC	SNAPTC
Test Pressure @ 1.5x Working Pressure	50 psig	50 psig	50 psig	50 psig
Initial Cylinder Level	9.40	8.50	7.70	8.30
Final Cylinder Level	9.40	8.50	7.70	8.30
Leak Rate = ICL - FCL	0	0	0	0
Time Completed	1130	0930	1000	1100
Time Started	1100	0900	0930	1030
Total Test Time (30 min Minimum)	30 min	30 min	30 min	30 min
Conclusion (Pass/Fail)	Pass	Pass	Pass	Pass

Comments:

Historical UST Document Summary

Haffner Realty Trust
284 Winter Street, Haverhill, Massachusetts
Ramboll Environ Project No. 08-36060C

Year	Description
1991	Permit to Maintain an Existing/ New Underground Storage Facility
1995	License - store diesel fuel
1997	Certificate of Registration, Registration
1998	Certificate of Registration, Registration, Application for Permit, Permit to Maintain an Existing/ New Storage Tank Facility
1999	Application for Permit, Permit to Maintain an Existing/ New Storage Tank Facility
2001/2002	Permit to Maintain an Existing/ New Underground Storage Facility for Storage Tanks Regulated under 527 CMR 9.00
2003	Certificate of Registration, Registration, Application for Permit, Permit to Maintain an Existing/ New Storage Tank Facility
2004	Permit to Maintain an Existing/ New Underground Storage Facility for Storage Tanks Regulated under 527 CMR 9.00; Renewal Application for Certificate of Compliance for Dispensing Facilities; Cathodic Protection Testing (New England CP); Notification for Storage Tanks Regulated Under 527 CMR 9.00; Leak Detector (Xcel Environmental)
2005	Registration, Application for Permit, Permit to Maintain an Existing/ New Storage Tank Facility
2006	Permit to Maintain an Existing/ New Underground Storage Facility for Storage Tanks Regulated under 527 CMR 9.00; Certificate of Registration, Registration, Certificate of Inspection (Building Code), Application for Permit, Permit to Maintain an Existing/ New Storage Tank Facility
2007	Registration; Permit to Maintain an Existing/ New Underground Storage Facility for Storage Tanks Regulated under 527 CMR 9.00; License to Sell Motor Fuel and/ or Automotive Lubricating Oil at Retail
2008	Registration; Permit to Maintain an Existing/ New Underground Storage Facility for Storage Tanks Regulated under 527 CMR 9.00
2009	Registration; Permit to Maintain an Existing/ New Underground Storage Facility for Storage Tanks Regulated under 527 CMR 9.00
2010	Registration; Permit to Maintain an Existing/ New Underground Storage Facility for Storage Tanks Regulated under 527 CMR 9.00; Service Station Inspection (HFD)
2011	Registration; Permit to Maintain an Existing/ New Underground Storage Facility for Storage Tanks Regulated under 527 CMR 9.00
2012	Permit to Maintain an Existing/ New Underground Storage Facility for Storage Tanks Regulated under 527 CMR 9.00; Haverhill Fire Department Inspection
2013	Permit to Maintain an Existing/ New Underground Storage Facility for Storage Tanks Regulated under 527 CMR 9.00
1995, 1999, 2004, 2009, 2014	Certificate of Compliance for Petroleum Dispensing Facilities [for years 1995, 1999, 2004, 2009, 2014]; Renewal Application for Certificate of Compliance for Dispensing Facilities [for years 1998]; Registration for Keeping, Storage, Manufacture or Sale of Flammables (1997); Application for Permit and Permit to maintain an existing/ new storage tank facility for storage tanks regulated under 527 cmr 9.00 (1997); Notification for Storage Tanks Regulated under 527 cmr 9 (1997)
2009	Acoustic Characteristic; Pressure Sensor Calculation; Information Sheet; Diagram; Auto Tank Gauge Inspection (ATG)
2011	Acoustic Characteristic; Pressure Sensor Calculation; Diagram; Tank Data Sheet
2012	Acoustic Characteristic; Pressure Sensor Calculation; Diagram; Tank Data Sheet
2014	Acoustic Characteristic; Pressure Sensor Calculation; Diagram; Tank Data Sheet
2006	Leak Detector; Pressure Decay Test; Crash Values; Phase II balance System; A/L Ratio Test (Xcel Environmental); Stage II Form C (MADEP)
2007	Leak Detector; Pressure Decay Test; Crash Values; Phase II balance System; A/L Ratio Test (Xcel Environmental); Stage II Form C (MADEP)
2008	Information Sheet; Leak Detector; Pressure Decay Test; Crash Values; Phase II balance System; A/L Ratio Test (Hazards Testing); Stage II Form C (MADEP)
2009	Leak Detector; Information Sheet; Auto Tank Gauge Inspection; Pressure Decay Test; Phase II balance System; A/L Ratio Test; Crash Values (Hazards Testing); Cathode Protection (New England CP); Stage II Form C (MADEP)
2010	Stage II Form C (MADEP); Information Sheet; Pressure Decay Test; Phase II balance System; A/L Ratio Test; Crash Valves; Leak Detector; Auto tank Gauge Inspection (Hazards Testing)
2011	Information Sheet; Pressure Decay Test; Phase II balance System; A/L Ratio Test; Crash Valves; Leak Detector; Auto tank Gauge Inspection (Hazards Testing); Stage II Form C (MADEP)
2012	Information Sheet; Pressure Decay Test; A/L Ratio Test; Crash Valves; Leak Detector; Auto tank Gauge Inspection (Hazards Testing); Stage II Form C (MADEP); Cathodic Protection (New England CP)
2013	Information Sheet; Pressure Decay Test; A/L Ratio Test; Crash Valves; Leak Detector (Hazards Testing); Stage II Form C (MADEP)
2014	Stage II Form C (MADEP)
2015	Stage II Form D1
2015	Cathodic Protection Testing (New England CP)
2009	Third Party Underground Storage Tank Inspection Report (Comm of MA) [FP-289]
2012	Form UST FP-289 - Third Party Underground Storage Tank Inspection
2015	Form UST FP-289 - Third Party Underground Storage Tank Inspection
1997	Notification for Storage Tanks Regulated Under 527 CMR 9.00
2001	Notification for Storage Tanks Regulated Under 527 CMR 9.00
2003	Notification for Storage Tanks Regulated Under 527 CMR 9.00
2007	Notification for Storage Tanks Regulated Under 527 CMR 9.00
2011	Notification for Storage Tanks Regulated Under 527 CMR 9.00
2011	IRS Sampling Federal Fuel Tax Compliance
2014	Form UST FP-290 - Notification for Underground Storage Tanks Regulated Under 527 CMR 9.00
2004, 2010, 2015	Suppression Inspections (simplex Grinnel)

APPENDIX H

EDR Radius Map™ Report with GeoCheck®, dated March 1, 2016

Haffner Realty Trust
284 Winter St
Haverhill, MA 01830

Inquiry Number: 04551943.2r
March 01, 2016

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

284 WINTER ST
HAVERHILL, MA 01830

COORDINATES

Latitude (North):	42.7771560 - 42˚ 46' 37.76''
Longitude (West):	71.0876920 - 71˚ 5' 15.69''
Universal Tranverse Mercator:	Zone 19
UTM X (Meters):	329214.2
UTM Y (Meters):	4737968.0
Elevation:	24 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5644812 HAVERHILL, MA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20120710
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
284 WINTER ST
HAVERHILL, MA 01830

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	HEG 114	284 WINTER ST	SHWS, UST, RELEASE, Financial Assurance, TIER 2		TP
A2	HAFFNERS OIL	284 WINTER STREET	SPILLS		TP
A3		284 WINTER ST	EDR Hist Auto		TP
A4	HAVERHILL GAS LIGHT	WINTER STREET	EDR MGP	Higher	40, 0.008, East
B5	COTTMAN TRANSMISSION	262 WINTER ST	HW GEN	Higher	279, 0.053, ENE
B6		262 WINTER ST	EDR Hist Auto	Higher	279, 0.053, ENE
B7	COTTMAN TRANSMISSION	262 WINTER ST	RCRA-CESQG, FINDS, ECHO	Higher	279, 0.053, ENE
C8		235 ESSEX ST	EDR Hist Auto	Higher	389, 0.074, South
9		17 LAFAYETTE	EDR Hist Auto	Higher	409, 0.077, WSW
D10	PENTUCKET TEXTILES I	14 STEVENS ST	RCRA NonGen / NLR	Higher	420, 0.080, NNW
D11	DYETEX INC	14 STEVENS ST	SHWS, UST, RELEASE, Financial Assurance	Higher	420, 0.080, NNW
D12	STEVENS STREET MILL	14 STEVENS STREET	US BROWNFIELDS, RCRA NonGen / NLR, US AIRS, FINDS,...	Higher	420, 0.080, NNW
C13	BRADFORD TOWING CO	221 ESSEX ST	RCRA-CESQG, FINDS, ECHO	Higher	424, 0.080, South
C14	BRADFORD TOWING CO	221 ESSEX ST	UST, Financial Assurance, HW GEN	Higher	424, 0.080, South
15	NO LOCATION AID	93 LAFAYETTE SQ	SHWS, INST CONTROL, RELEASE	Lower	427, 0.081, WNW
16	ZARECO IND INC	241 WINTER ST	RCRA NonGen / NLR, FINDS, ECHO	Higher	458, 0.087, ENE
C17		218 ESSEX ST	EDR Hist Auto	Higher	461, 0.087, South
C18		216 ESSEX ST	EDR Hist Auto	Higher	467, 0.088, South
C19	BROADWAY AUTO BODY	216 ESSEX ST	HW GEN	Higher	467, 0.088, South
C20	BROADWAY AUTO BODY	216 ESSEX ST	RCRA-CESQG, FINDS, ECHO	Higher	467, 0.088, South
E21	ASAP FINISHING CORP	15B HALE ST	HW GEN	Higher	481, 0.091, NNE
E22	TEK COATING CO INC	15 HALE ST	RCRA NonGen / NLR	Higher	481, 0.091, NNE
E23	ASAP FINISHING CORP	15B HALE ST	RCRA-CESQG	Higher	481, 0.091, NNE
E24	ASAP FINISHING CORP	15B HALE ST	RCRA NonGen / NLR, FINDS, ECHO	Higher	481, 0.091, NNE
F25	ESSEX STREET PARKING	200 ESSEX STREET	US BROWNFIELDS, FINDS, ECHO	Higher	512, 0.097, South
F26	NO LOCATION AID	NEAR 190 ESSEX ST	SHWS, RELEASE	Higher	544, 0.103, South
G27	MASON & HAMLIN PIANO	35 DUNCAN ST	HW GEN	Higher	551, 0.104, East
G28	FALCONE PIANO CO INC	35 DUNCAN ST	RCRA-CESQG, FINDS, ECHO	Higher	551, 0.104, East
G29	FALCONE PIANO CO INC	35 DUNCAN ST	RCRA NonGen / NLR	Higher	551, 0.104, East
30	RESIDENTIAL PROPERTY	10 1/2 HILLSIDE PL	SHWS, RELEASE, LEAD	Higher	623, 0.118, WSW
H31	PLASTEK CORP	10 DUNCAN ST.	RCRA NonGen / NLR, FINDS, ECHO	Higher	641, 0.121, ESE
H32		9 DUNCAN ST	EDR Hist Auto	Higher	662, 0.125, ESE
H33	EUROPEAN AUTOBODY DB	9 DUNCAN ST	HW GEN	Higher	662, 0.125, ESE
H34	EUROPEAN AUTOBODY DB	9 DUNCAN ST	RCRA-CESQG, FINDS, ECHO	Higher	662, 0.125, ESE
35		151 ESSEX ST	EDR Hist Auto	Higher	664, 0.126, SSE
36		17 LAFAYETTE AVE	EDR Hist Auto	Higher	679, 0.129, WNW
I37		35 HALE ST	EDR Hist Auto	Higher	704, 0.133, North
H38	NO LOCATION AID	60 TO 62 LOCKE ST	SHWS, RELEASE	Higher	709, 0.134, ESE
I39	STRYKS AUTOMOTIVE	36 HALE ST	HW GEN	Higher	722, 0.137, North

MAPPED SITES SUMMARY

Target Property Address:
284 WINTER ST
HAVERHILL, MA 01830

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
H40	FMR TRANSFORMER AREA	62 LOCKE ST	SHWS, RELEASE	Higher	726, 0.138, ESE
H41	NO LOCATION AID	60-62 LOCKE ST	LUST, INST CONTROL, RELEASE	Higher	731, 0.138, ESE
42	LOCKE STREET PARKING	73-109 LOCKE STREET	US BROWNFIELDS, FINDS, ECHO	Higher	732, 0.139, East
43	FMR TRANSFORMER AREA	50 LOCKE ST	SHWS, RELEASE	Higher	758, 0.144, ESE
I44	AC LANDSCAPING INC	39 HALE ST	HW GEN	Higher	759, 0.144, North
I45		39 HALE ST	EDR Hist Auto	Higher	759, 0.144, North
I46		40 HALE ST	EDR Hist Auto	Higher	782, 0.148, North
J47	EXXON COMPANY USA	141 LAFAYETTE SQ	RCRA NonGen / NLR, FINDS, ECHO	Higher	794, 0.150, WNW
J48	HAVERHILL PETRO LLC	141 LAFAYETTE SQ	HW GEN	Higher	794, 0.150, WNW
J49		141 LAFAYETTE SQ	EDR Hist Auto	Higher	794, 0.150, WNW
J50	HAVERHILL AUTO SALES	141 LAFAYETTE SQ	LUST, UST, AST, RELEASE, Financial Assurance	Higher	794, 0.150, WNW
J51	CVS PHARMACY 2596	150 LAFAYETTE SQ	HW GEN	Higher	834, 0.158, WNW
J52	MARBLE MOTOR CO	150 LAFAYETTE SQ	RCRA NonGen / NLR, FINDS, ECHO	Higher	834, 0.158, WNW
J53	AUTOMOBILE DEALERSHI	150 LAFAYETTE SQ	SHWS, LUST, RELEASE	Higher	834, 0.158, WNW
J54	CVS PHARMACY 2596	150 LAFAYETTE SQ	RCRA-LQG	Higher	834, 0.158, WNW
J55		150 LAFAYETTE SQ	EDR Hist Auto	Higher	834, 0.158, WNW
J56	MARBLE MOTOR CO	152 LAFAYETTE SQ	UST, Financial Assurance	Higher	835, 0.158, WNW
57	USM CORP	32 STEVENS ST	RCRA NonGen / NLR, US AIRS	Higher	842, 0.159, NNW
J58	LAFAYETTE ST	BROADWAY AND HILLDAL	SHWS, RELEASE	Higher	881, 0.167, WNW
J59	HAVERHILL CITGO	2 HILLDALE AVE	UST, Financial Assurance	Higher	907, 0.172, WNW
J60	LAFAYETTE SQUARE GUL	2 HILLDALE AVE	LUST, INST CONTROL, RELEASE, ENF, HW GEN	Higher	907, 0.172, WNW
J61		2 HILLDALE AVE	EDR Hist Auto	Higher	907, 0.172, WNW
62	RESIDENCE	35 LEWIS ST	SHWS, LAST, RELEASE, ENF	Higher	955, 0.181, NNE
K63	FORMER AUTO BODY SHO	20-22 LOCKE STREET	US BROWNFIELDS, FINDS, ECHO	Higher	955, 0.181, SE
L64	BENEATH BLDG 1 TRC-7	117 ESSEX ST	SHWS, INST CONTROL, BROWNFIELDS, RELEASE	Higher	982, 0.186, SE
M65		13 HILLDALE AVE	EDR Hist Auto	Higher	985, 0.187, NW
M66		13 HILLDALE AVE	EDR Hist Cleaner	Higher	985, 0.187, NW
K67	RICE & BROUILLARD EL	19-35 LOCKE ST	HW GEN	Higher	991, 0.188, SE
68		106 LOCUST ST	EDR Hist Auto	Higher	1000, 0.189, East
L69	NO LOCATION AID	113 ESSEX ST	SHWS, RELEASE	Higher	1001, 0.190, SE
L70	NO LOCATION AID	109 ESSEX ST	SHWS, RELEASE	Higher	1019, 0.193, SE
K71	STOLLER PROPERTY/FOR	10-62 LOCKE STREET	US BROWNFIELDS, FINDS, ECHO	Higher	1019, 0.193, SE
N72	MORELS AUTO REPAIR	174 WINTER ST	HW GEN	Higher	1020, 0.193, ENE
N73	SUNOCO SERVICE STA	174 WINTER ST	RCRA NonGen / NLR, FINDS, ECHO	Higher	1020, 0.193, ENE
N74		174 WINTER ST	EDR Hist Auto	Higher	1020, 0.193, ENE
N75	GASOLINE STATION FMR	174 WINTER ST	LUST, RELEASE, SPILLS	Higher	1020, 0.193, ENE
O76	STARSIGN	64 LOCUST ST	RCRA-CESQG, FINDS, ECHO	Higher	1052, 0.199, ESE
O77	STARSIGN	64 LOCUST ST	HW GEN	Higher	1052, 0.199, ESE
P78	BSS REALTY TRUST	61 HALE ST	UST, Financial Assurance	Higher	1068, 0.202, North

MAPPED SITES SUMMARY

Target Property Address:
284 WINTER ST
HAVERHILL, MA 01830

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
L79	DOHERTY H E CO INC	104 ESSEX ST	RCRA NonGen / NLR	Higher	1071, 0.203, SE
L80	ENTERPRISE CIRCUITS	104 ESSEX ST	CERCLIS-NFRAP, RCRA NonGen / NLR	Higher	1071, 0.203, SE
L81	ACCELERATED CIRCUITS	104 ESSEX ST	SHWS, BROWNFIELDS, RELEASE	Higher	1071, 0.203, SE
L82	DOHERTY H E CO INC	104 ESSEX ST	RCRA NonGen / NLR, FINDS, ECHO	Higher	1071, 0.203, SE
O83	NO LOCATION AID	50-54 LOCUST ST AND	SHWS, INST CONTROL, RELEASE, ENF	Higher	1083, 0.205, ESE
O84	SIGN CENTER INC	40 ORCHARD ST	RCRA-CESQG, FINDS, ECHO	Higher	1102, 0.209, ESE
N85	FORMER WINTER STREET	165 WINTER STREET	SHWS, LAST, RELEASE, LEAD	Higher	1132, 0.214, ENE
P86	BSS REALTY TRUST	65 HALE ST	UST, Financial Assurance	Higher	1133, 0.215, North
P87	NOONAN J P	65 HALE ST	RCRA NonGen / NLR, FINDS, ECHO	Higher	1133, 0.215, North
Q88	JOHNS AUTO & TRANSMI	29 HILLDALE AVE	HW GEN	Higher	1137, 0.215, NW
Q89		29 HILLDALE AVE	EDR Hist Auto	Higher	1137, 0.215, NW
90	SIGN CENTER INC	40 ORCHARD ST	HW GEN	Higher	1141, 0.216, ESE
91	NO LOCATION AID	38 LANCASTER ST	LUST, RELEASE	Higher	1166, 0.221, NNE
R92	BENNETT THE CLEANSER	7 BROADWAY	DRYCLEANERS	Higher	1184, 0.224, WNW
R93		7 BROADWAY	EDR Hist Cleaner	Higher	1184, 0.224, WNW
S94	UNITRODE COMPUTER PR	86-88 ESSEX ST	RCRA NonGen / NLR, FINDS, ECHO	Higher	1184, 0.224, SE
95		98 PRIMROSE	EDR Hist Auto	Higher	1190, 0.225, NE
T96	NO LOCATION AID	21-25 LOCUST ST	SHWS, RELEASE	Lower	1200, 0.227, SE
Q97		37 HILLDALE AVE	EDR Hist Auto	Higher	1207, 0.229, NW
T98	BULLS EYE	17 LOCUST ST	RCRA NonGen / NLR	Lower	1213, 0.230, SE
T99	PRINTED CIRCUIT DESI	17 LOCUST STREET	RCRA NonGen / NLR, FINDS, ECHO	Lower	1213, 0.230, SE
T100	LOCUST STREET PARKIN	17 LOCUST STREET	US BROWNFIELDS, FINDS, ECHO	Lower	1213, 0.230, SE
T101	WINCHELL BUILDING	17 LOCUST STREET	CERCLIS-NFRAP	Lower	1213, 0.230, SE
T102	ALTERNATE CIRCUIT TE	17 LOCUST ST	RCRA NonGen / NLR	Lower	1213, 0.230, SE
103	RESIDENTIAL PROPERTY	25 BLAISDELL STREET	LAST, RELEASE	Higher	1254, 0.237, SW
S104	HAYES BUILDING PROPE	14 GRANITE ST	SHWS, LUST, RELEASE, LEAD	Higher	1268, 0.240, SE
S105	HAYES BUILDING	14-44 GRANITE STREET	US BROWNFIELDS	Higher	1268, 0.240, SE
S106	HAYES BUILDING	14-44 GRANITE ST	SHWS, LUST, RELEASE, ENF	Higher	1268, 0.240, SE
U107	NORTHEAST QUALITY PR	18 GRANITE ST	RCRA NonGen / NLR	Higher	1270, 0.241, SSE
V108	MERRIMACK VALLEY TIR	45 HILLDALE AVE	UST, Financial Assurance, HW GEN	Higher	1272, 0.241, NW
V109		45 HILLDALE AVE	EDR Hist Auto	Higher	1272, 0.241, NW
110		27 CHARLES ST	EDR Hist Cleaner	Higher	1289, 0.244, ENE
U111	SERVICE STATION FMR	ESSEX ST GRANITE ST	SHWS, RELEASE	Higher	1340, 0.254, SE
112	NATIONAL GRID-WALNUT	47 WALNUT STREET	SHWS, RELEASE, TIER 2	Higher	1341, 0.254, ESE
113	SAYERS OIL CO FMR	145 WINTER ST	SHWS, RELEASE	Higher	1351, 0.256, East
W114	NO LOCATION AID	53-63 WINGATE STREET	SHWS, RELEASE, ENF	Higher	1438, 0.272, SSE
W115	NO LOCATION AID	52 WINGATE ST	SHWS, LUST, RELEASE	Higher	1478, 0.280, SSE
W116	NETCO AUTOMATION	52-60 WINGATE ST	LUST, RELEASE, ENF	Higher	1478, 0.280, SSE
117	NO LOCATION AID	7 STEWART ST	LUST, RELEASE	Higher	1493, 0.283, NNE

MAPPED SITES SUMMARY

Target Property Address:
284 WINTER ST
HAVERHILL, MA 01830

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
118	NO LOCATION AID	16-38 WALNUT ST	SHWS, INST CONTROL, RELEASE	Higher	1494, 0.283, ESE
119	RESIDENCE	73 HILLDALE AVE	LAST, RELEASE, LEAD	Lower	1521, 0.288, NW
120	PROPERTY	25-35 RAILROAD SQ	SHWS, RELEASE	Higher	1532, 0.290, SSE
121	HAVERHILL SALVAGE	81 HALE STREET	CERCLIS, SHWS, INST CONTROL, RELEASE, PRP	Higher	1534, 0.291, North
122	CORNER OF EMERSON	2 WALNUT ST	SHWS, RELEASE	Higher	1647, 0.312, ESE
123	EMMAUS PROPERTY	7 MURRAY COURT	US BROWNFIELDS, FINDS, ECHO	Higher	1659, 0.314, ESE
124	NO LOCATION AID	17 LAFAYETTE ST	SHWS, RELEASE	Higher	1665, 0.315, NW
125	NO LOCATION AID	86 WASHINGTON ST	SHWS, RELEASE	Lower	1711, 0.324, SSE
126	CF JAMESON & CO	72 SOUTH KIMBAL ST	SHWS, INST CONTROL, SPILLS, RELEASE	Higher	1754, 0.332, NNE
X127	HAVERHILL GAS CO	98 HILLDALE AVE	EDR MGP	Higher	1845, 0.349, NW
X128	HAVERHILL GAS CO	98 HILLDALE AVE	SHWS, LAST, LUST, RELEASE, ENF, HW GEN	Higher	1845, 0.349, NW
129	CORNER OF RIVER ST	170 WASHINGTON ST	SHWS, RELEASE, LEAD	Higher	1867, 0.354, South
130	PHOENIX ROW	42 PHOENIX ROW	US BROWNFIELDS	Lower	1868, 0.354, SE
131	COLLINS OIL	112 HALE ST	SHWS, LUST, RELEASE, ENF	Higher	1933, 0.366, North
Y132	NO LOCATION AID	WASHINGTON STREET @	SHWS, RELEASE	Lower	1954, 0.370, SE
Z133	WHITE ST MOTORS	60 WHITE ST	SHWS, RELEASE	Higher	1969, 0.373, ENE
134	WINTER ST @ VINE STR	101 WINTER STREET	LUST, RELEASE	Higher	1988, 0.377, East
135	SERVICE STATION FMR	31-35 RIVER ST	LUST, RELEASE	Higher	2012, 0.381, South
Y136	FRANKLIN BLOCK CONDO	200 MERRIMACK ST	LUST, INST CONTROL, RELEASE	Lower	2021, 0.383, SE
Z137	NO LOCATION AID	73 WHITE ST	SHWS, SPILLS, RELEASE	Higher	2045, 0.387, ENE
138	NO LOCATION AID	124 HALE ST	SHWS, RELEASE	Higher	2082, 0.394, North
139	NO LOCATION AID	234 PRIMROSE ST	SHWS, RELEASE	Higher	2108, 0.399, NNE
140	PROPERTY	163 MERRIMACK ST	SHWS, RELEASE	Lower	2133, 0.404, ESE
141	NO LOCATION AID	23-25 NICHOLS ST	LAST, RELEASE	Higher	2170, 0.411, NE
142	NO LOCATION AID	140 HILLDALE AVENUE	SHWS, RELEASE, HW GEN	Higher	2203, 0.417, NW
143	AT DIVERSIFIED BUSIN	144 HILLDALE AVE	SHWS, RELEASE, HW GEN	Higher	2222, 0.421, NW
144	MOTORVATION	79 SIXTH AVE	LUST, INST CONTROL, RELEASE	Higher	2228, 0.422, NNE
145	PROPERTY	70 RIVER ST	LAST, RELEASE, LEAD	Lower	2248, 0.426, South
146	PEASLEY ESTATE FMR	BARTLETT AVE	SHWS, RELEASE	Higher	2386, 0.452, ENE
147	NO LOCATION AID	261 PRIMROSE ST	SHWS, RELEASE	Higher	2437, 0.462, North
148	UPPER COUNTY BRIDGE	SOUTH ELM STREET AND	SHWS, RELEASE	Lower	2456, 0.465, South
149	RONNIES OIL	163 EIGHTH AVE	LUST, RELEASE	Higher	2491, 0.472, North
150	NO LOCATION AID	140 WHITE ST	SHWS, RELEASE	Higher	2703, 0.512, ENE
151	GAR PARK	BAILEY BLVD	SHWS, INST CONTROL, RELEASE, ENF	Higher	2742, 0.519, East
152	WADLEIGH HOUSE YMCA	170 MAIN STREET	SHWS, RELEASE, LEAD	Higher	2806, 0.531, East
AA153	ROADWAY	200 MAIN ST	SHWS, LUST, RELEASE, HW GEN	Higher	2836, 0.537, ENE
AA154	IMPERIAL CLEANERS	200 MAIN ST	SHWS, UST, RELEASE, Financial Assurance	Higher	2836, 0.537, ENE
155	ROADWAY	GINTY BLVD AND MAIN	SHWS, RELEASE	Higher	2840, 0.538, East
156	NO LOCATION AID	24 FOURTH AVE	SHWS, RELEASE	Higher	2891, 0.548, NE

MAPPED SITES SUMMARY

Target Property Address:
284 WINTER ST
HAVERHILL, MA 01830

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
157	NO LOCATION AID	16 GARDEN ST	SHWS, RELEASE, LEAD	Higher	2933, 0.555, NNE
158	FORMER GASOLINE STAT	236 SOUTH ELM ST	SHWS, LUST, SPILLS, RELEASE	Higher	2943, 0.557, South
159	MOBIL SERVICE STATIO	255 259 MAIN ST	SHWS, LUST, RELEASE	Higher	3042, 0.576, ENE
160	PROPERTY	286 MAIN ST	SHWS, RELEASE, LEAD	Higher	3103, 0.588, ENE
161	BRADFORD STATION REL	10 RAILROAD AVE	SHWS, RELEASE	Higher	3113, 0.590, South
162	MASSACHUSETTS ELECTR	185 WATER ST	SHWS, RELEASE, HW GEN	Higher	3125, 0.592, ESE
163	PROPERTY	310 MAIN ST	SHWS, RELEASE, HW GEN	Higher	3197, 0.605, ENE
164	MERRIMACK IND FINISH	33 RAILROAD AVE	SHWS, SPILLS, RELEASE	Higher	3306, 0.626, South
AB165	NATIONAL GRID-WATER	165 WATER STREET	SHWS, RELEASE, TIER 2	Higher	3331, 0.631, ESE
AB166	NO LOCATION AID	155 WATER ST	SHWS, RELEASE	Higher	3436, 0.651, ESE
167	NO LOCATION AID	7 KENOZA AVE	SHWS, RELEASE	Higher	3441, 0.652, ENE
168	FOUNDATION MOUNTED T	PAD #5 KATHY DR	SHWS, RELEASE	Higher	3492, 0.661, NNW
AC169	NO LOCATION AID	15 SOUTH MAIN ST	SHWS, LUST, INST CONTROL, RELEASE	Lower	3534, 0.669, ESE
AC170	NO LOCATION AID	20 SOUTH MAIN ST	SHWS, RELEASE	Lower	3584, 0.679, ESE
171	PARKING LOT BEHIND B	142 WATER ST	SHWS, RELEASE	Lower	3612, 0.684, ESE
AD172	PIERCE CONSTRUCTION	264 RIVER ST	SHWS, RELEASE	Lower	3633, 0.688, SSW
AD173	ALLEN SHOE COMPANY	266 RIVER ST	SHWS, RELEASE	Lower	3651, 0.691, SSW
174	KING DAVIS PROPERTIE	40 KENOZA AVE	SHWS, RELEASE	Higher	3710, 0.703, ENE
175	POLE 3	37 VARNUM ST	SHWS, RELEASE	Higher	3760, 0.712, SSW
176	MVRTA FACILITY	85 RAILROAD AVE	SHWS, SPILLS, RELEASE	Higher	3773, 0.715, South
AE177	HOOKER-HOWE COSTUME	46-52 MAIN ST	SHWS, BROWNFIELDS, SPILLS, RELEASE, ENF	Higher	3778, 0.716, ESE
AE178	FORMER HOOKER HOWE C	46-52 SOUTH MAIN ST	SHWS, RELEASE	Higher	3778, 0.716, ESE
179	TEXTRON DEFENSE SYST	285 SOUTH RIVER ST	SHWS, LUST, RELEASE	Lower	3800, 0.720, SSW
180	MAPLE DOWNS DEVELOPM	PILGRIM RD	SHWS, RELEASE	Higher	3982, 0.754, NW
AF181	CENTRAL SQUARE	72-76 SOUTH MAIN ST	SHWS, INST CONTROL, RELEASE, ENF	Higher	4016, 0.761, SE
AF182	INT FERRY ST	71 TO 76 SOUTH MAIN	SHWS, RELEASE	Higher	4041, 0.765, SE
183	MERRIVISTA FACILITY	100 WATER STREET	SHWS, LUST, RELEASE	Lower	4067, 0.770, ESE
184	JAFFARIANS SERVICE I	312 RIVER ST	SHWS, LAST, LUST, INST CONTROL, RELEASE, HW GEN	Lower	4089, 0.774, SSW
185	BRADFORD SHELL STATI	154 SOUTH MAIN ST	SHWS, LUST, RELEASE	Higher	4213, 0.798, SE
186	POPE MACHINERY INC	261 RIVER ST	SHWS, LUST, INST CONTROL, RELEASE, RCRA NonGen /...	Higher	4286, 0.812, SSW
187	FORMER TEDS FOR TIRE	57 GRANITE ST	SHWS, LUST, BROWNFIELDS, RELEASE	Higher	4320, 0.818, ENE
188	NO LOCATION AID	7-11 KENOZA ST	SHWS, LUST, INST CONTROL, RELEASE, SPILLS, ENF, HW...	Higher	4390, 0.831, NNE
189	NO LOCATION AID	180 WATER ST	SHWS, RELEASE	Higher	4609, 0.873, East
190		21 MOUNT VERNON ST	SHWS, LUST, RELEASE, LEAD	Higher	4680, 0.886, East
191	NO LOCATION AID	10 CHURCH ST	SHWS, SPILLS, RELEASE	Higher	4817, 0.912, SE
192	NO LOCATION AID	414 RIVER ST	SHWS, LUST, INST CONTROL, RELEASE, ENF	Higher	4888, 0.926, SSW
193	NO LOCATION AID	11 VILLA ST	SHWS, RELEASE	Higher	4972, 0.942, SW
194	PENTUCKET VILLAGE	ORANGE ST	SHWS, RELEASE	Higher	5073, 0.961, NW
195	FOUR SEASONS CAR WAS	427 RIVER ST	SHWS, RELEASE	Higher	5095, 0.965, SW

MAPPED SITES SUMMARY

Target Property Address:
284 WINTER ST
HAVERHILL, MA 01830

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
196	HOYT & WORTHEN TANNI	60 RAILROAD ST	CERCLIS, SHWS, RELEASE, RCRA NonGen / NLR, FINDS,...	Lower	5108, 0.967, ESE
197	DAIRY QUEEN	454 RIVER ST	SHWS, RELEASE	Higher	5278, 1.000, SW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
HEG 114 284 WINTER ST HAVERHILL, MA 01830	SHWS Release Tracking Number / Current Status: 3-0032875 / UNCLSS Release Tracking Number / Current Status: 3-0032792 / UNCLSS	N/A
	UST Tank Status: In Use Facility Id: 5252	
	RELEASE Release Tracking Number / Current Status: 3-0032792 / UNCLSS Release Tracking Number / Current Status: 3-0032875 / UNCLSS	
	Financial Assurance Facility Id: 5252	
	TIER 2 Facility Id: FATR2012974VLU03FT31	
HAFFNERS OIL 284 WINTER STREET HAVERHILL, MA 01830	SPILLS Facility Id: 0000 Case Closed: YES Spill ID: N88-0552	N/A
284 WINTER ST 284 WINTER ST HAVERHILL, MA 01830	EDR Hist Auto	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

EXECUTIVE SUMMARY

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-SQG..... RCRA - Small Quantity Generators

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System
US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Solid Waste Facility Database/Transfer Stations

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
ODI..... Open Dump Inventory

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... National Clandestine Laboratory Register

US CDL ..... Clandestine Drug Labs

Local Land Records

LIENS ..... Liens Information Listing
LIENS 2 ..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS ..... Hazardous Materials Information Reporting System
SPILLS 90 ..... SPILLS 90 data from FirstSearch
SPILLS 80 ..... SPILLS 80 data from FirstSearch

Other Ascertainable Records

FUDS ..... Formerly Used Defense Sites
DOD ..... Department of Defense Sites
SCRD DRYCLEANERS ..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ..... Financial Assurance Information
EPA WATCH LIST ..... EPA WATCH LIST
2020 COR ACTION ..... 2020 Corrective Action Program List
TSCA ..... Toxic Substances Control Act
TRIS ..... Toxic Chemical Release Inventory System
SSTS ..... Section 7 Tracking Systems
ROD ..... Records Of Decision
RMP ..... Risk Management Plans
RAATS ..... RCRA Administrative Action Tracking System
PRP ..... Potentially Responsible Parties
PADS ..... PCB Activity Database System
ICIS ..... Integrated Compliance Information System
FTTS ..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS ..... Material Licensing Tracking System
COAL ASH DOE ..... Steam-Electric Plant Operation Data
COAL ASH EPA ..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER ..... PCB Transformer Registration Database
RADINFO ..... Radiation Information Database
HIST FTTS ..... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS ..... Incident and Accident Data
CONSENT ..... Superfund (CERCLA) Consent Decrees
INDIAN RESERV ..... Indian Reservations
FUSRAP ..... Formerly Utilized Sites Remedial Action Program
UMTRA ..... Uranium Mill Tailings Sites
LEAD SMELTERS ..... Lead Smelter Sites
US AIRS ..... Aerometric Information Retrieval System Facility Subsystem
US MINES ..... Mines Master Index File
FINDS ..... Facility Index System/Facility Registry System
AIRS ..... Permitted Facilities Listing
ENF ..... Enforcement Action Cases
GWDP ..... Ground Water Discharge Permits
LEAD ..... Lead Inspection Database
MERCURY ..... Mercury Product Recyling Drop-Off Locations Listing
NPDES ..... NPDES Permit Listing
TSD ..... TSD Facility
FUELS PROGRAM ..... EPA Fuels Program Registered Listing

EXECUTIVE SUMMARY

ECHO..... Enforcement & Compliance History Information

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS..... Recovered Government Archive State Hazardous Waste Facilities List
RGA LUST..... Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS list

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 10/25/2013 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HAVERHILL SALVAGE	***81 HALE STREET***	***N 1/4 - 1/2 (0.291 mi.)***	***121***	***352***

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

A review of the CERCLIS-NFRAP list, as provided by EDR, and dated 10/25/2013 has revealed that there

are 2 CERCLIS-NFRAP sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ENTERPRISE CIRCUITS	***104 ESSEX ST***	***SE 1/8 - 1/4 (0.203 mi.)***	***L80***	***236***

Lower Elevation	Address	Direction / Distance	Map ID	Page
WINCHELL BUILDING	17 LOCUST STREET	SE 1/8 - 1/4 (0.230 mi.)	T101	285

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 06/09/2015 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CVS PHARMACY 2596	150 LAFAYETTE SQ	WNW 1/8 - 1/4 (0.158 mi.)	J54	167

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 06/09/2015 has revealed that there are 8 RCRA-CESQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COTTMAN TRANSMISSION	***262 WINTER ST***	***ENE 0 - 1/8 (0.053 mi.)***	***B7***	***19***
BRADFORD TOWING CO	***221 ESSEX ST***	***S 0 - 1/8 (0.080 mi.)***	***C13***	***57***
BROADWAY AUTO BODY	***216 ESSEX ST***	***S 0 - 1/8 (0.088 mi.)***	***C20***	***73***
ASAP FINISHING CORP	15B HALE ST	NNE 0 - 1/8 (0.091 mi.)	E23	78
FALCONE PIANO CO INC	***35 DUNCAN ST***	***E 0 - 1/8 (0.104 mi.)***	***G28***	***94***
EUROPEAN AUTOBODY DB	***9 DUNCAN ST***	***ESE 1/8 - 1/4 (0.125 mi.)***	***H34***	***110***
STARSIGN	***64 LOCUST ST***	***ESE 1/8 - 1/4 (0.199 mi.)***	***O76***	***230***
SIGN CENTER INC	***40 ORCHARD ST***	***ESE 1/8 - 1/4 (0.209 mi.)***	***O84***	***249***

State- and tribal - equivalent CERCLIS

SHWS: Contains information on releases of oil and hazardous materials that have been reported to DEP.

A review of the SHWS list, as provided by EDR, and dated 10/27/2015 has revealed that there are 93

EXECUTIVE SUMMARY

SHWS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DYETEX INC	***14 STEVENS ST***	***NNW 0 - 1/8 (0.080 mi.)***	***D11***	***25***
Release Tracking Number / Current Status: 3-0026818 / RAO				
Release Tracking Number / Current Status: 3-0020884 / RAO				
NO LOCATION AID	***NEAR 190 ESSEX ST***	***S 0 - 1/8 (0.103 mi.)***	***F26***	***92***
Release Tracking Number / Current Status: 3-0019526 / RAO				
RESIDENTIAL PROPERTY	***10 1/2 HILLSIDE PL***	***WSW 0 - 1/8 (0.118 mi.)***	***30***	***102***
Release Tracking Number / Current Status: 3-0027797 / RAO				
NO LOCATION AID	***60 TO 62 LOCKE ST***	***ESE 1/8 - 1/4 (0.134 mi.)***	***H38***	***116***
Release Tracking Number / Current Status: 3-0020718 / RAONR				
FMR TRANSFORMER AREA	***62 LOCKE ST***	***ESE 1/8 - 1/4 (0.138 mi.)***	***H40***	***118***
Release Tracking Number / Current Status: 3-0027349 / RAO				
FMR TRANSFORMER AREA	***50 LOCKE ST***	***ESE 1/8 - 1/4 (0.144 mi.)***	***43***	***130***
Release Tracking Number / Current Status: 3-0027350 / RAO				
AUTOMOBILE DEALERSHI	***150 LAFAYETTE SQ***	***WNW 1/8 - 1/4 (0.158 mi.)***	***J53***	***149***
Release Tracking Number / Current Status: 3-0025415 / RAO				
Release Tracking Number / Current Status: 3-0026906 / RAO				
Release Tracking Number / Current Status: 3-0022086 / RAONR				
LAFAYETTE ST	***BROADWAY AND HILLDAL***	***WNW 1/8 - 1/4 (0.167 mi.)***	***J58***	***181***
Release Tracking Number / Current Status: 3-0011347 / URAM				
RESIDENCE	***35 LEWIS ST***	***NNE 1/8 - 1/4 (0.181 mi.)***	***62***	***191***
Release Tracking Number / Current Status: 3-0028544 / RAO				
BENEATH BLDG 1 TRC-7	***117 ESSEX ST***	***SE 1/8 - 1/4 (0.186 mi.)***	***L64***	***204***
Release Tracking Number / Current Status: 3-0027348 / RAO				
Release Tracking Number / Current Status: 3-0027997 / RAONR				
NO LOCATION AID	***113 ESSEX ST***	***SE 1/8 - 1/4 (0.190 mi.)***	***L69***	***213***
Release Tracking Number / Current Status: 3-0028653 / RAO				
NO LOCATION AID	***109 ESSEX ST***	***SE 1/8 - 1/4 (0.193 mi.)***	***L70***	***215***
Release Tracking Number / Current Status: 3-0027284 / RAO				
ACCELERATED CIRCUITS	***104 ESSEX ST***	***SE 1/8 - 1/4 (0.203 mi.)***	***L81***	***238***
Release Tracking Number / Current Status: 3-0000328 / RAO				
NO LOCATION AID	***50-54 LOCUST ST AND***	***ESE 1/8 - 1/4 (0.205 mi.)***	***O83***	***245***
Release Tracking Number / Current Status: 3-0024941 / RAO				
Release Tracking Number / Current Status: 3-0024942 / RAO				
FORMER WINTER STREET	***165 WINTER STREET***	***ENE 1/8 - 1/4 (0.214 mi.)***	***N85***	***254***
Release Tracking Number / Current Status: 3-0032349 / PSNC				
HAYES BUILDING PROPE	***14 GRANITE ST***	***SE 1/8 - 1/4 (0.240 mi.)***	***S104***	***290***
Release Tracking Number / Current Status: 3-0028733 / RAO				
HAYES BUILDING	***14-44 GRANITE ST***	***SE 1/8 - 1/4 (0.240 mi.)***	***S106***	***312***
Release Tracking Number / Current Status: 3-0028737 / RAO				
Release Tracking Number / Current Status: 3-0028983 / RAO				
SERVICE STATION FMR	***ESSEX ST GRANITE ST***	***SE 1/4 - 1/2 (0.254 mi.)***	***U111***	***322***
Release Tracking Number / Current Status: 3-0000178 / DEPNDS				
NATIONAL GRID-WALNUT	***47 WALNUT STREET***	***ESE 1/4 - 1/2 (0.254 mi.)***	***112***	***323***
Release Tracking Number / Current Status: 3-0032337 / TIERII				
SAYERS OIL CO FMR	***145 WINTER ST***	***E 1/4 - 1/2 (0.256 mi.)***	***113***	***328***

Release Tracking Number / Current Status: 3-0001527 / DEPNDS

NO LOCATION AID	***53-63 WINGATE STREET***	***SSE 1/4 - 1/2 (0.272 mi.)***	***W114***	***329***

Release Tracking Number / Current Status: 3-0029465 / TIERII

NO LOCATION AID	***52 WINGATE ST***	***SSE 1/4 - 1/2 (0.280 mi.)***	***W115***	***333***

Release Tracking Number / Current Status: 3-0021314 / RAONR
Release Tracking Number / Current Status: 3-0021036 / RAONR

NO LOCATION AID	***16-38 WALNUT ST***	***ESE 1/4 - 1/2 (0.283 mi.)***	***118***	***345***

Release Tracking Number / Current Status: 3-0024258 / RAO
Release Tracking Number / Current Status: 3-0024259 / RAO

PROPERTY	***25-35 RAILROAD SQ***	***SSE 1/4 - 1/2 (0.290 mi.)***	***120***	***351***

Release Tracking Number / Current Status: 3-0003157 / DEPNDS

HAVERHILL SALVAGE	***81 HALE STREET***	***N 1/4 - 1/2 (0.291 mi.)***	***121***	***352***

Release Tracking Number / Current Status: 3-0000325 / RAO

CORNER OF EMERSON	***2 WALNUT ST***	***ESE 1/4 - 1/2 (0.312 mi.)***	***122***	***360***

Release Tracking Number / Current Status: 3-0015263 / RAO

NO LOCATION AID	***17 LAFAYETTE ST***	***NW 1/4 - 1/2 (0.315 mi.)***	***124***	***371***

Release Tracking Number / Current Status: 3-0015169 / DPS

CF JAMESON & CO	***72 SOUTH KIMBAL ST***	***NNE 1/4 - 1/2 (0.332 mi.)***	***126***	***373***

Release Tracking Number / Current Status: 3-0012905 / RAONR
Release Tracking Number / Current Status: 3-0004516 / RAO

HAVERHILL GAS CO	***98 HILLDALE AVE***	***NW 1/4 - 1/2 (0.349 mi.)***	***X128***	***377***

Release Tracking Number / Current Status: 3-0026443 / RAONR
Release Tracking Number / Current Status: 3-0000323 / STMRET
Release Tracking Number / Current Status: 3-0028996 / RAONR

CORNER OF RIVER ST	***170 WASHINGTON ST***	***S 1/4 - 1/2 (0.354 mi.)***	***129***	***405***

Release Tracking Number / Current Status: 3-0012458 / RAO

COLLINS OIL	***112 HALE ST***	***N 1/4 - 1/2 (0.366 mi.)***	***131***	***410***

Release Tracking Number / Current Status: 3-0003003 / PSNC

WHITE ST MOTORS	***60 WHITE ST***	***ENE 1/4 - 1/2 (0.373 mi.)***	***Z133***	***418***

Release Tracking Number / Current Status: 3-0000866 / RAO

NO LOCATION AID	***73 WHITE ST***	***ENE 1/4 - 1/2 (0.387 mi.)***	***Z137***	***426***

Release Tracking Number / Current Status: 3-0019553 / RAONR
Release Tracking Number / Current Status: 3-0002330 / RAO
Release Tracking Number / Current Status: 3-0022213 / RAONR

NO LOCATION AID	***124 HALE ST***	***N 1/4 - 1/2 (0.394 mi.)***	***138***	***433***

Release Tracking Number / Current Status: 3-0017115 / RAO

NO LOCATION AID	***234 PRIMROSE ST***	***NNE 1/4 - 1/2 (0.399 mi.)***	***139***	***434***

Release Tracking Number / Current Status: 3-0019548 / RAO

NO LOCATION AID	***140 HILLDALE AVENUE***	***NW 1/4 - 1/2 (0.417 mi.)***	***142***	***438***

Release Tracking Number / Current Status: 3-0030897 / URAM
Release Tracking Number / Current Status: 3-0032815 / URAM
Release Tracking Number / Current Status: 3-0030582 / URAM
Release Tracking Number / Current Status: 3-0025112 / DPS

AT DIVERSIFIED BUSIN	***144 HILLDALE AVE***	***NW 1/4 - 1/2 (0.421 mi.)***	***143***	***443***

Release Tracking Number / Current Status: 3-0013787 / RAO

PEASLEY ESTATE FMR	***BARTLETT AVE***	***ENE 1/4 - 1/2 (0.452 mi.)***	***146***	***450***

Release Tracking Number / Current Status: 3-0000879 / DEPNDS

NO LOCATION AID	***261 PRIMROSE ST***	***N 1/4 - 1/2 (0.462 mi.)***	***147***	***451***

Release Tracking Number / Current Status: 3-0022249 / RAO				
NO LOCATION AID	***140 WHITE ST***	***ENE 1/2 - 1 (0.512 mi.)***	***150***	***455***
Release Tracking Number / Current Status: 3-0021858 / RAO				
GAR PARK	***BAILEY BLVD***	***E 1/2 - 1 (0.519 mi.)***	***151***	***457***
Release Tracking Number / Current Status: 3-0015115 / RAO				
WADLEIGH HOUSE YMCA	***170 MAIN STREET***	***E 1/2 - 1 (0.531 mi.)***	***152***	***460***
Release Tracking Number / Current Status: 3-0032033 / DPS				
ROADWAY	***200 MAIN ST***	***ENE 1/2 - 1 (0.537 mi.)***	***AA153***	***462***
Release Tracking Number / Current Status: 3-0011990 / RAO				
IMPERIAL CLEANERS	***200 MAIN ST***	***ENE 1/2 - 1 (0.537 mi.)***	***AA154***	***465***
Release Tracking Number / Current Status: 3-0032241 / TIERII				
Release Tracking Number / Current Status: 3-0032091 / RAONR				
ROADWAY	***GINTY BLVD AND MAIN***	***E 1/2 - 1 (0.538 mi.)***	***155***	***469***
Release Tracking Number / Current Status: 3-0027612 / RAO				
NO LOCATION AID	***24 FOURTH AVE***	***NE 1/2 - 1 (0.548 mi.)***	***156***	***470***
Release Tracking Number / Current Status: 3-0014500 / RAO				
NO LOCATION AID	***16 GARDEN ST***	***NNE 1/2 - 1 (0.555 mi.)***	***157***	***472***
Release Tracking Number / Current Status: 3-0014423 / RAO				
FORMER GASOLINE STAT	***236 SOUTH ELM ST***	***S 1/2 - 1 (0.557 mi.)***	***158***	***474***
Release Tracking Number / Current Status: 3-0028623 / TIERII				
Release Tracking Number / Current Status: 3-0017754 / RAO				
Release Tracking Number / Current Status: 3-0030683 / RAONR				
Release Tracking Number / Current Status: 3-0019233 / RAONR				
MOBIL SERVICE STATIO	***255 259 MAIN ST***	***ENE 1/2 - 1 (0.576 mi.)***	***159***	***490***
Release Tracking Number / Current Status: 3-0004822 / RAONR				
PROPERTY	***286 MAIN ST***	***ENE 1/2 - 1 (0.588 mi.)***	***160***	***493***
Release Tracking Number / Current Status: 3-0002206 / DEPNFA				
BRADFORD STATION REL	***10 RAILROAD AVE***	***S 1/2 - 1 (0.590 mi.)***	***161***	***495***
Release Tracking Number / Current Status: 3-0026390 / RAO				
MASSACHUSETTS ELECTR	***185 WATER ST***	***ESE 1/2 - 1 (0.592 mi.)***	***162***	***497***
Release Tracking Number / Current Status: 3-0026351 / RAO				
PROPERTY	***310 MAIN ST***	***ENE 1/2 - 1 (0.605 mi.)***	***163***	***498***
Release Tracking Number / Current Status: 3-0002145 / WCSPRM				
MERRIMACK IND FINISH	***33 RAILROAD AVE***	***S 1/2 - 1 (0.626 mi.)***	***164***	***500***
Release Tracking Number / Current Status: 3-0001312 / DEPNDS				
NATIONAL GRID-WATER	***165 WATER STREET***	***ESE 1/2 - 1 (0.631 mi.)***	***AB165***	***501***
Release Tracking Number / Current Status: 3-0032426 / TIERII				
NO LOCATION AID	***155 WATER ST***	***ESE 1/2 - 1 (0.651 mi.)***	***AB166***	***506***
Release Tracking Number / Current Status: 3-0018078 / RAO				
NO LOCATION AID	***7 KENOZA AVE***	***ENE 1/2 - 1 (0.652 mi.)***	***167***	***507***
Release Tracking Number / Current Status: 3-0020182 / RAO				
FOUNDATION MOUNTED T	***PAD #5 KATHY DR***	***NNW 1/2 - 1 (0.661 mi.)***	***168***	***509***
Release Tracking Number / Current Status: 3-0023638 / RAO				
KING DAVIS PROPERTIE	***40 KENOZA AVE***	***ENE 1/2 - 1 (0.703 mi.)***	***174***	***524***
Release Tracking Number / Current Status: 3-0025479 / DPS				
POLE 3	***37 VARNUM ST***	***SSW 1/2 - 1 (0.712 mi.)***	***175***	***526***
Release Tracking Number / Current Status: 3-0011969 / RAO				
MVRTA FACILITY	***85 RAILROAD AVE***	***S 1/2 - 1 (0.715 mi.)***	***176***	***528***

Release Tracking Number / Current Status: 3-0029699 / RAO				
Release Tracking Number / Current Status: 3-0022173 / RAO				
HOOKER-HOWE COSTUME	***46-52 MAIN ST***	***ESE 1/2 - 1 (0.716 mi.)***	***AE177***	***531***
Release Tracking Number / Current Status: 3-0003707 / RAO				
FORMER HOOKER HOWE C	***46-52 SOUTH MAIN ST***	***ESE 1/2 - 1 (0.716 mi.)***	***AE178***	***537***
Release Tracking Number / Current Status: 3-0028354 / RAONR				
MAPLE DOWNS DEVELOPM	***PILGRIM RD***	***NW 1/2 - 1 (0.754 mi.)***	***180***	***543***
Release Tracking Number / Current Status: 3-0001353 / DEPNFA				
CENTRAL SQUARE	***72-76 SOUTH MAIN ST***	***SE 1/2 - 1 (0.761 mi.)***	***AF181***	***544***
Release Tracking Number / Current Status: 3-0021140 / RAO				
INT FERRY ST	***71 TO 76 SOUTH MAIN***	***SE 1/2 - 1 (0.765 mi.)***	***AF182***	***552***
Release Tracking Number / Current Status: 3-0021542 / RAONR				
BRADFORD SHELL STATI	***154 SOUTH MAIN ST***	***SE 1/2 - 1 (0.798 mi.)***	***185***	***564***
Release Tracking Number / Current Status: 3-0024996 / RAO				
Release Tracking Number / Current Status: 3-0000012 / REMOPS				
Release Tracking Number / Current Status: 3-0026597 / RAONR				
POPE MACHINERY INC	***261 RIVER ST***	***SSW 1/2 - 1 (0.812 mi.)***	***186***	***580***
Release Tracking Number / Current Status: 3-0002940 / RAO				
FORMER TEDS FOR TIRE	***57 GRANITE ST***	***ENE 1/2 - 1 (0.818 mi.)***	***187***	***594***
Release Tracking Number / Current Status: 3-0027012 / RAONR				
Release Tracking Number / Current Status: 3-0011439 / RAONR				
Release Tracking Number / Current Status: 3-0021180 / RAONR				
Release Tracking Number / Current Status: 3-0000642 / TMPS				
NO LOCATION AID	***7-11 KENOZA ST***	***NNE 1/2 - 1 (0.831 mi.)***	***188***	***612***
Release Tracking Number / Current Status: 3-0003263 / RAO				
NO LOCATION AID	***180 WATER ST***	***E 1/2 - 1 (0.873 mi.)***	***189***	***639***
Release Tracking Number / Current Status: 3-0021786 / RAO				
Not reported	***21 MOUNT VERNON ST***	***E 1/2 - 1 (0.886 mi.)***	***190***	***640***
Release Tracking Number / Current Status: 3-0033102 / UNCLSS				
NO LOCATION AID	***10 CHURCH ST***	***SE 1/2 - 1 (0.912 mi.)***	***191***	***644***
Release Tracking Number / Current Status: 4-0017274 / RAO				
NO LOCATION AID	***414 RIVER ST***	***SSW 1/2 - 1 (0.926 mi.)***	***192***	***646***
Release Tracking Number / Current Status: 3-0014064 / DPS				
NO LOCATION AID	***11 VILLA ST***	***SW 1/2 - 1 (0.942 mi.)***	***193***	***656***
Release Tracking Number / Current Status: 3-0023696 / RAO				
PENTUCKET VILLAGE	***ORANGE ST***	***NW 1/2 - 1 (0.961 mi.)***	***194***	***657***
Release Tracking Number / Current Status: 3-0000894 / RAO				
FOUR SEASONS CAR WAS	***427 RIVER ST***	***SW 1/2 - 1 (0.965 mi.)***	***195***	***658***
Release Tracking Number / Current Status: 3-0018923 / RAO				
DAIRY QUEEN	***454 RIVER ST***	***SW 1/2 - 1 (1.000 mi.)***	***197***	***670***
Release Tracking Number / Current Status: 3-0001541 / RAO				

Lower Elevation	Address	Direction / Distance	Map ID	Page
NO LOCATION AID	***93 LAFAYETTE SQ***	***WNW 0 - 1/8 (0.081 mi.)***	***15***	***65***
Release Tracking Number / Current Status: 3-0018974 / RAO				
NO LOCATION AID	***21-25 LOCUST ST***	***SE 1/8 - 1/4 (0.227 mi.)***	***T96***	***269***
Release Tracking Number / Current Status: 3-0024943 / RAO				
NO LOCATION AID	***86 WASHINGTON ST***	***SSE 1/4 - 1/2 (0.324 mi.)***	***125***	***372***

Release Tracking Number / Current Status: 3-0012948 / RAO				
NO LOCATION AID	***WASHINGTON STREET @***	***SE 1/4 - 1/2 (0.370 mi.)***	***Y132***	***417***
Release Tracking Number / Current Status: 3-0023462 / RAO				
PROPERTY	***163 MERRIMACK ST***	***ESE 1/4 - 1/2 (0.404 mi.)***	***140***	***435***
Release Tracking Number / Current Status: 3-0001852 / RAO				
UPPER COUNTY BRIDGE	***SOUTH ELM STREET AND***	***S 1/4 - 1/2 (0.465 mi.)***	***148***	***452***
Release Tracking Number / Current Status: 3-0024662 / URAM				
NO LOCATION AID	***15 SOUTH MAIN ST***	***ESE 1/2 - 1 (0.669 mi.)***	***AC169***	***512***
Release Tracking Number / Current Status: 3-0019580 / RAO				
NO LOCATION AID	***20 SOUTH MAIN ST***	***ESE 1/2 - 1 (0.679 mi.)***	***AC170***	***519***
Release Tracking Number / Current Status: 3-0018538 / RAO				
PARKING LOT BEHIND B	***142 WATER ST***	***ESE 1/2 - 1 (0.684 mi.)***	***171***	***520***
Release Tracking Number / Current Status: 3-0014691 / RAO				
PIERCE CONSTRUCTION	***264 RIVER ST***	***SSW 1/2 - 1 (0.688 mi.)***	***AD172***	***522***
Release Tracking Number / Current Status: 3-0027641 / RAO				
ALLEN SHOE COMPANY	***266 RIVER ST***	***SSW 1/2 - 1 (0.691 mi.)***	***AD173***	***523***
Release Tracking Number / Current Status: 3-0003768 / RAO				
TEXTRON DEFENSE SYST	***285 SOUTH RIVER ST***	***SSW 1/2 - 1 (0.720 mi.)***	***179***	***541***
Release Tracking Number / Current Status: 3-0001838 / WCSPRM				
MERRIVISTA FACILITY	***100 WATER STREET***	***ESE 1/2 - 1 (0.770 mi.)***	***183***	***555***
Release Tracking Number / Current Status: 3-0032505 / PSNC				
JAFFARIANS SERVICE I	***312 RIVER ST***	***SSW 1/2 - 1 (0.774 mi.)***	***184***	***558***
Release Tracking Number / Current Status: 3-0022083 / RAO				
HOYT & WORTHEN TANNI	***60 RAILROAD ST***	***ESE 1/2 - 1 (0.967 mi.)***	***196***	***660***
Release Tracking Number / Current Status: 3-0000326 / RAO				

State and tribal leaking storage tank lists

LAST: The Leaking Aboveground Storage Tanks database

A review of the LAST list, as provided by EDR, and dated 10/27/2015 has revealed that there are 7 LAST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RESIDENCE	***35 LEWIS ST***	***NNE 1/8 - 1/4 (0.181 mi.)***	***62***	***191***
Release Tracking Number / Current Status: 3-0028544 / RAO				
FORMER WINTER STREET	***165 WINTER STREET***	***ENE 1/8 - 1/4 (0.214 mi.)***	***N85***	***254***
Release Tracking Number / Current Status: 3-0032349 / PSNC				
RESIDENTIAL PROPERTY	***25 BLAISDELL STREET***	***SW 1/8 - 1/4 (0.237 mi.)***	***103***	***288***
Release Tracking Number / Current Status: 3-0031175 / RAO				
HAVERHILL GAS CO	***98 HILLDALE AVE***	***NW 1/4 - 1/2 (0.349 mi.)***	***X128***	***377***
Release Tracking Number / Current Status: 3-0000323 / STMRET				
NO LOCATION AID	***23-25 NICHOLS ST***	***NE 1/4 - 1/2 (0.411 mi.)***	***141***	***437***
Release Tracking Number / Current Status: 3-0010552 / RAO				

Lower Elevation	Address	Direction / Distance	Map ID	Page
RESIDENCE	***73 HILLDALE AVE***	***NW 1/4 - 1/2 (0.288 mi.)***	***119***	***348***

Release Tracking Number / Current Status: 3-0015276 / RAO

PROPERTY	***70 RIVER ST***	***S 1/4 - 1/2 (0.426 mi.)***	***145***	***448***

Release Tracking Number / Current Status: 3-0006024 / RAO

LUST: Sites within the Releases Database that have a UST listed as its source.

A review of the LUST list, as provided by EDR, and dated 10/27/2015 has revealed that there are 18 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NO LOCATION AID	***60-62 LOCKE ST***	***ESE 1/8 - 1/4 (0.138 mi.)***	***H41***	***120***
Release Tracking Number / Current Status: 3-0017252 / RAO				
Release Tracking Number / Current Status: 3-0017254 / RAONR				
HAVERHILL AUTO SALES	***141 LAFAYETTE SQ***	***WNW 1/8 - 1/4 (0.150 mi.)***	***J50***	***138***
Release Tracking Number / Current Status: 3-0000882 / RAO				
AUTOMOBILE DEALERSHI	***150 LAFAYETTE SQ***	***WNW 1/8 - 1/4 (0.158 mi.)***	***J53***	***149***
Release Tracking Number / Current Status: 3-0026428 / RAO				
Release Tracking Number / Current Status: 3-0026429 / RAO				
Release Tracking Number / Current Status: 3-0027301 / RAO				
Release Tracking Number / Current Status: 3-0027305 / RAO				
Release Tracking Number / Current Status: 3-0017247 / RAO				
**Additional key fields are available in the Map Findings section*				
LAFAYETTE SQUARE GUL	***2 HILLDALE AVE***	***WNW 1/8 - 1/4 (0.172 mi.)***	***J60***	***183***
Release Tracking Number / Current Status: 3-0002512 / RAO				
GASOLINE STATION FMR	***174 WINTER ST***	***ENE 1/8 - 1/4 (0.193 mi.)***	***N75***	***228***
Release Tracking Number / Current Status: 3-0003461 / RAO				
NO LOCATION AID	***38 LANCASTER ST***	***NNE 1/8 - 1/4 (0.221 mi.)***	***91***	***263***
Release Tracking Number / Current Status: 3-0021953 / RAO				
HAYES BUILDING PROPE	***14 GRANITE ST***	***SE 1/8 - 1/4 (0.240 mi.)***	***S104***	***290***
Release Tracking Number / Current Status: 3-0028733 / RAO				
HAYES BUILDING	***14-44 GRANITE ST***	***SE 1/8 - 1/4 (0.240 mi.)***	***S106***	***312***
Release Tracking Number / Current Status: 3-0028983 / RAO				
NO LOCATION AID	***52 WINGATE ST***	***SSE 1/4 - 1/2 (0.280 mi.)***	***W115***	***333***
Release Tracking Number / Current Status: 3-0021534 / RAONR				
NETCO AUTOMATION	***52-60 WINGATE ST***	***SSE 1/4 - 1/2 (0.280 mi.)***	***W116***	***339***
Release Tracking Number / Current Status: 3-0011109 / RAO				
NO LOCATION AID	***7 STEWART ST***	***NNE 1/4 - 1/2 (0.283 mi.)***	***117***	***344***
Release Tracking Number / Current Status: 3-0017522 / RAO				
HAVERHILL GAS CO	***98 HILLDALE AVE***	***NW 1/4 - 1/2 (0.349 mi.)***	***X128***	***377***
Release Tracking Number / Current Status: 3-0028995 / RAONR				
Release Tracking Number / Current Status: 3-0000323 / STMRET				
COLLINS OIL	***112 HALE ST***	***N 1/4 - 1/2 (0.366 mi.)***	***131***	***410***
Release Tracking Number / Current Status: 3-0003003 / PSNC				
WINTER ST @ VINE STR	***101 WINTER STREET***	***E 1/4 - 1/2 (0.377 mi.)***	***134***	***420***
Release Tracking Number / Current Status: 3-0030941 / RAO				
SERVICE STATION FMR	***31-35 RIVER ST***	***S 1/4 - 1/2 (0.381 mi.)***	***135***	***422***
Release Tracking Number / Current Status: 3-0003888 / RAO				
MOTORVATION	***79 SIXTH AVE***	***NNE 1/4 - 1/2 (0.422 mi.)***	***144***	***445***

Release Tracking Number / Current Status: 3-0022813 / RAO

RONNIES OIL	***163 EIGHTH AVE***	***N 1/4 - 1/2 (0.472 mi.)***	***149***	***454***

Release Tracking Number / Current Status: 3-0003343 / PENNFA

Lower Elevation	Address	Direction / Distance	Map ID	Page
FRANKLIN BLOCK CONDO	***200 MERRIMACK ST***	***SE 1/4 - 1/2 (0.383 mi.)***	***Y136***	***423***

Release Tracking Number / Current Status: 3-0021955 / RAO

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Protection's Summary Listing of all the Tanks Registered in the State of Massachusetts.

A review of the UST list, as provided by EDR, and dated 10/04/2015 has revealed that there are 8 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DYETEX INC Tank Status: Removed Tank Status: In Use Facility Id: 5211	***14 STEVENS ST***	***NNW 0 - 1/8 (0.080 mi.)***	***D11***	***25***
BRADFORD TOWING CO Tank Status: Removed Facility Id: 5218	***221 ESSEX ST***	***S 0 - 1/8 (0.080 mi.)***	***C14***	***64***
HAVERHILL AUTO SALES Tank Status: Removed Tank Status: In Use Facility Id: 5235	***141 LAFAYETTE SQ***	***WNW 1/8 - 1/4 (0.150 mi.)***	***J50***	***138***
MARBLE MOTOR CO Tank Status: Removed Facility Id: 22130	***152 LAFAYETTE SQ***	***WNW 1/8 - 1/4 (0.158 mi.)***	***J56***	***173***
HAVERHILL CITGO Tank Status: In Use Facility Id: 5223	***2 HILLDALE AVE***	***WNW 1/8 - 1/4 (0.172 mi.)***	***J59***	***182***
BSS REALTY TRUST Tank Status: Removed Facility Id: 5201	***61 HALE ST***	***N 1/8 - 1/4 (0.202 mi.)***	***P78***	***234***
BSS REALTY TRUST Tank Status: Removed Facility Id: 5200	***65 HALE ST***	***N 1/8 - 1/4 (0.215 mi.)***	***P86***	***257***
MERRIMACK VALLEY TIR Tank Status: Removed Facility Id: 5217	***45 HILLDALE AVE***	***NW 1/8 - 1/4 (0.241 mi.)***	***V108***	***320***

AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Environmental Protection's Summary Listing of all the Tanks Registered in the State of Massachusetts.

A review of the AST list, as provided by EDR, and dated 10/22/2009 has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HAVERHILL AUTO SALES Release Tracking Number: 5235	***141 LAFAYETTE SQ***	***WNW 1/8 - 1/4 (0.150 mi.)***	***J50***	***138***

State and tribal institutional control / engineering control registries

INST CONTROL: Activity and Use Limitations establish limits and conditions on the future use of contaminated property, and therefore allow cleanups to be tailored to these uses.

A review of the INST CONTROL list, as provided by EDR, and dated 10/27/2015 has revealed that there are 10 INST CONTROL sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NO LOCATION AID Release Tracking Number: 3-0017252	***60-62 LOCKE ST***	***ESE 1/8 - 1/4 (0.138 mi.)***	***H41***	***120***
LAFAYETTE SQUARE GUL Release Tracking Number: 3-0002512	***2 HILLDALE AVE***	***WNW 1/8 - 1/4 (0.172 mi.)***	***J60***	***183***
BENEATH BLDG 1 TRC-7 Release Tracking Number: 3-0027348	***117 ESSEX ST***	***SE 1/8 - 1/4 (0.186 mi.)***	***L64***	***204***
NO LOCATION AID Release Tracking Number: 3-0024941	***50-54 LOCUST ST AND***	***ESE 1/8 - 1/4 (0.205 mi.)***	***O83***	***245***
NO LOCATION AID Release Tracking Number: 3-0024258	***16-38 WALNUT ST***	***ESE 1/4 - 1/2 (0.283 mi.)***	***118***	***345***
HAVERHILL SALVAGE Release Tracking Number: 3-0000325	***81 HALE STREET***	***N 1/4 - 1/2 (0.291 mi.)***	***121***	***352***
CF JAMESON & CO Release Tracking Number: 3-0004516	***72 SOUTH KIMBAL ST***	***NNE 1/4 - 1/2 (0.332 mi.)***	***126***	***373***
MOTORVATION Release Tracking Number: 3-0022813	***79 SIXTH AVE***	***NNE 1/4 - 1/2 (0.422 mi.)***	***144***	***445***

Lower Elevation	Address	Direction / Distance	Map ID	Page
NO LOCATION AID Release Tracking Number: 3-0018974	***93 LAFAYETTE SQ***	***WNW 0 - 1/8 (0.081 mi.)***	***15***	***65***
FRANKLIN BLOCK CONDO Release Tracking Number: 3-0021955	***200 MERRIMACK ST***	***SE 1/4 - 1/2 (0.383 mi.)***	***Y136***	***423***

EXECUTIVE SUMMARY

State and tribal Brownfields sites

BROWNFIELDS: Under Massachusetts law, M.G.L. c. 21E is the statute that governs the cleanup of releases of oil and/or hazardous material to the environment. The Brownfields Act of 1998 amended M.G.L. c. 21E by establishing significant liability relief and financial incentives to spur the redevelopment of brownfields, while ensuring that the Commonwealth's environmental standards are met. Most brownfields are redeveloped with the benefit of liability protections that operate automatically under M.G.L. c. 21E.

A review of the BROWNFIELDS list, as provided by EDR, and dated 11/01/2014 has revealed that there are 2 BROWNFIELDS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BENEATH BLDG 1 TRC-7 MCP Status: RTN CLOSED RTN: 3-0027997	***117 ESSEX ST***	***SE 1/8 - 1/4 (0.186 mi.)***	***L64***	***204***
ACCELERATED CIRCUITS MCP Status: RAO RTN: 3-0000328	***104 ESSEX ST***	***SE 1/8 - 1/4 (0.203 mi.)***	***L81***	***238***

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: The EPA's listing of Brownfields properties from the Cleanups in My Community program, which provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

A review of the US BROWNFIELDS list, as provided by EDR, and dated 12/22/2015 has revealed that there are 9 US BROWNFIELDS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
STEVENS STREET MILL	***14 STEVENS STREET***	***NNW 0 - 1/8 (0.080 mi.)***	***D12***	***31***
ESSEX STREET PARKING	***200 ESSEX STREET***	***S 0 - 1/8 (0.097 mi.)***	***F25***	***87***
LOCKE STREET PARKING	***73-109 LOCKE STREET***	***E 1/8 - 1/4 (0.139 mi.)***	***42***	***125***
FORMER AUTO BODY SHO	***20-22 LOCKE STREET***	***SE 1/8 - 1/4 (0.181 mi.)***	***K63***	***200***
STOLLER PROPERTY/FOR	***10-62 LOCKE STREET***	***SE 1/8 - 1/4 (0.193 mi.)***	***K71***	***216***
HAYES BUILDING	14-44 GRANITE STREET	SE 1/8 - 1/4 (0.240 mi.)	S105	296
EMMAUS PROPERTY	***7 MURRAY COURT***	***ESE 1/4 - 1/2 (0.314 mi.)***	***123***	***361***

Lower Elevation	Address	Direction / Distance	Map ID	Page
LOCUST STREET PARKIN	***17 LOCUST STREET***	***SE 1/8 - 1/4 (0.230 mi.)***	***T100***	***280***
PHOENIX ROW	42 PHOENIX ROW	SE 1/4 - 1/2 (0.354 mi.)	130	408

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 06/09/2015 has revealed that there are 20 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PENTUCKET TEXTILES I	14 STEVENS ST	NNW 0 - 1/8 (0.080 mi.)	D10	24
STEVENS STREET MILL	***14 STEVENS STREET***	***NNW 0 - 1/8 (0.080 mi.)***	***D12***	***31***
ZARECO IND INC	***241 WINTER ST***	***ENE 0 - 1/8 (0.087 mi.)***	***16***	***68***
TEK COATING CO INC	15 HALE ST	NNE 0 - 1/8 (0.091 mi.)	E22	77
ASAP FINISHING CORP	***15B HALE ST***	***NNE 0 - 1/8 (0.091 mi.)***	***E24***	***80***
FALCONE PIANO CO INC	35 DUNCAN ST	E 0 - 1/8 (0.104 mi.)	G29	100
PLASTEK CORP	***10 DUNCAN ST.***	***ESE 0 - 1/8 (0.121 mi.)***	***H31***	***105***
EXXON COMPANY USA	***141 LAFAYETTE SQ***	***WNW 1/8 - 1/4 (0.150 mi.)***	***J47***	***133***
MARBLE MOTOR CO	***150 LAFAYETTE SQ***	***WNW 1/8 - 1/4 (0.158 mi.)***	***J52***	***145***
USM CORP	***32 STEVENS ST***	***NNW 1/8 - 1/4 (0.159 mi.)***	***57***	***175***
SUNOCO SERVICE STA	***174 WINTER ST***	***ENE 1/8 - 1/4 (0.193 mi.)***	***N73***	***224***
DOHERTY H E CO INC	104 ESSEX ST	SE 1/8 - 1/4 (0.203 mi.)	L79	235
ENTERPRISE CIRCUITS	***104 ESSEX ST***	***SE 1/8 - 1/4 (0.203 mi.)***	***L80***	***236***
DOHERTY H E CO INC	***104 ESSEX ST***	***SE 1/8 - 1/4 (0.203 mi.)***	***L82***	***240***
NOONAN J P	***65 HALE ST***	***N 1/8 - 1/4 (0.215 mi.)***	***P87***	***258***
UNITRODE COMPUTER PR	***86-88 ESSEX ST***	***SE 1/8 - 1/4 (0.224 mi.)***	***S94***	***265***
NORTHEAST QUALITY PR	18 GRANITE ST	SSE 1/8 - 1/4 (0.241 mi.)	U107	319

Lower Elevation	Address	Direction / Distance	Map ID	Page
BULLS EYE	17 LOCUST ST	SE 1/8 - 1/4 (0.230 mi.)	T98	271
PRINTED CIRCUIT DESI	***17 LOCUST STREET***	***SE 1/8 - 1/4 (0.230 mi.)***	***T99***	***274***
ALTERNATE CIRCUIT TE	17 LOCUST ST	SE 1/8 - 1/4 (0.230 mi.)	T102	287

DRYCLEANERS: A listing of Department of Environmental Protection regulated drycleaning facilities that use perchloroethylene under the Environmental Results Program.

A review of the DRYCLEANERS list, as provided by EDR, and dated 10/26/2015 has revealed that there is 1 DRYCLEANERS site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BENNETT THE CLEANSER Facility Id: 294307	7 BROADWAY	WNW 1/8 - 1/4 (0.224 mi.)	R92	264

HW GEN: Permanent generator identification numbers for all Massachusetts generators of hazardous waste and waste oil that have registered with or notified MassDEP of their hazardous waste activities.

A review of the HW GEN list, as provided by EDR, and dated 09/25/2015 has revealed that there are 17 HW GEN sites within approximately 0.25 miles of the target property.

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COTTMAN TRANSMISSION State Generator Status: SQG-MA EPA Id: MAD982203465	262 WINTER ST	ENE 0 - 1/8 (0.053 mi.)	B5	19
BRADFORD TOWING CO State Generator Status: SQG-MA EPA Id: MAD045912540	***221 ESSEX ST***	***S 0 - 1/8 (0.080 mi.)***	***C14***	***64***
BROADWAY AUTO BODY EPA Id: MAD981207673	216 ESSEX ST	S 0 - 1/8 (0.088 mi.)	C19	72
ASAP FINISHING CORP EPA Id: MAR000508663	15B HALE ST	NNE 0 - 1/8 (0.091 mi.)	E21	77
MASON & HAMLIN PIANO State Generator Status: VQG-MA EPA Id: MAR000015693	35 DUNCAN ST	E 0 - 1/8 (0.104 mi.)	G27	93
EUROPEAN AUTOBODY DB State Generator Status: VQG-MA EPA Id: MAD981060908	9 DUNCAN ST	ESE 1/8 - 1/4 (0.125 mi.)	H33	110
STRYKS AUTOMOTIVE State Generator Status: SQG-MA EPA Id: MV9783744419	36 HALE ST	N 1/8 - 1/4 (0.137 mi.)	I39	118
AC LANDSCAPING INC State Generator Status: VQG-MA EPA Id: MV9783735504	39 HALE ST	N 1/8 - 1/4 (0.144 mi.)	I44	132
HAVERHILL PETRO LLC State Generator Status: SQG-MA EPA Id: MV9783724165	141 LAFAYETTE SQ	WNW 1/8 - 1/4 (0.150 mi.)	J48	137
CVS PHARMACY 2596 EPA Id: MAC300018975	150 LAFAYETTE SQ	WNW 1/8 - 1/4 (0.158 mi.)	J51	145
LAFAYETTE SQUARE GUL EPA Id: MV9783727773	***2 HILLDALE AVE***	***WNW 1/8 - 1/4 (0.172 mi.)***	***J60***	***183***
RICE & BROUILLARD EL State Generator Status: VQG-MA EPA Id: MV9783728734	19-35 LOCKE ST	SE 1/8 - 1/4 (0.188 mi.)	K67	212
MORELS AUTO REPAIR State Generator Status: SQG-MA EPA Id: MV9783720845	174 WINTER ST	ENE 1/8 - 1/4 (0.193 mi.)	N72	223
STARSIGN EPA Id: MAD982546269	64 LOCUST ST	ESE 1/8 - 1/4 (0.199 mi.)	O77	234
JOHNS AUTO & TRANSMI State Generator Status: VQG-MA EPA Id: MV9783720282	29 HILLDALE AVE	NW 1/8 - 1/4 (0.215 mi.)	Q88	262
SIGN CENTER INC EPA Id: MAD985266188	40 ORCHARD ST	ESE 1/8 - 1/4 (0.216 mi.)	90	262
MERRIMACK VALLEY TIR State Generator Status: VQG-MA EPA Id: MV9783733561	***45 HILLDALE AVE***	***NW 1/8 - 1/4 (0.241 mi.)***	***V108***	***320***

EXECUTIVE SUMMARY

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

A review of the EDR MGP list, as provided by EDR, has revealed that there are 2 EDR MGP sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HAVERHILL GAS LIGHT	WINTER STREET	E 0 - 1/8 (0.008 mi.)	A4	19
HAVERHILL GAS CO	98 HILLDALE AVE	NW 1/4 - 1/2 (0.349 mi.)	X127	377

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 21 EDR Hist Auto sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	262 WINTER ST	ENE 0 - 1/8 (0.053 mi.)	B6	19
Not reported	235 ESSEX ST	S 0 - 1/8 (0.074 mi.)	C8	24
Not reported	17 LAFAYETTE	WSW 0 - 1/8 (0.077 mi.)	9	24
Not reported	218 ESSEX ST	S 0 - 1/8 (0.087 mi.)	C17	71
Not reported	216 ESSEX ST	S 0 - 1/8 (0.088 mi.)	C18	72
Not reported	9 DUNCAN ST	ESE 1/8 - 1/4 (0.125 mi.)	H32	109
Not reported	151 ESSEX ST	SSE 1/8 - 1/4 (0.126 mi.)	35	115
Not reported	17 LAFAYETTE AVE	WNW 1/8 - 1/4 (0.129 mi.)	36	115
Not reported	35 HALE ST	N 1/8 - 1/4 (0.133 mi.)	I37	115
Not reported	39 HALE ST	N 1/8 - 1/4 (0.144 mi.)	I45	132
Not reported	40 HALE ST	N 1/8 - 1/4 (0.148 mi.)	I46	133
Not reported	141 LAFAYETTE SQ	WNW 1/8 - 1/4 (0.150 mi.)	J49	137
Not reported	150 LAFAYETTE SQ	WNW 1/8 - 1/4 (0.158 mi.)	J55	173
Not reported	2 HILLDALE AVE	WNW 1/8 - 1/4 (0.172 mi.)	J61	191
Not reported	13 HILLDALE AVE	NW 1/8 - 1/4 (0.187 mi.)	M65	212
Not reported	106 LOCUST ST	E 1/8 - 1/4 (0.189 mi.)	68	212
Not reported	174 WINTER ST	ENE 1/8 - 1/4 (0.193 mi.)	N74	227
Not reported	29 HILLDALE AVE	NW 1/8 - 1/4 (0.215 mi.)	Q89	262
Not reported	98 PRIMROSE	NE 1/8 - 1/4 (0.225 mi.)	95	269
Not reported	37 HILLDALE AVE	NW 1/8 - 1/4 (0.229 mi.)	Q97	271

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	45 HILLDALE AVE	NW 1/8 - 1/4 (0.241 mi.)	V109	321

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there are 3 EDR Hist Cleaner sites within approximately 0.25 miles of the target property.

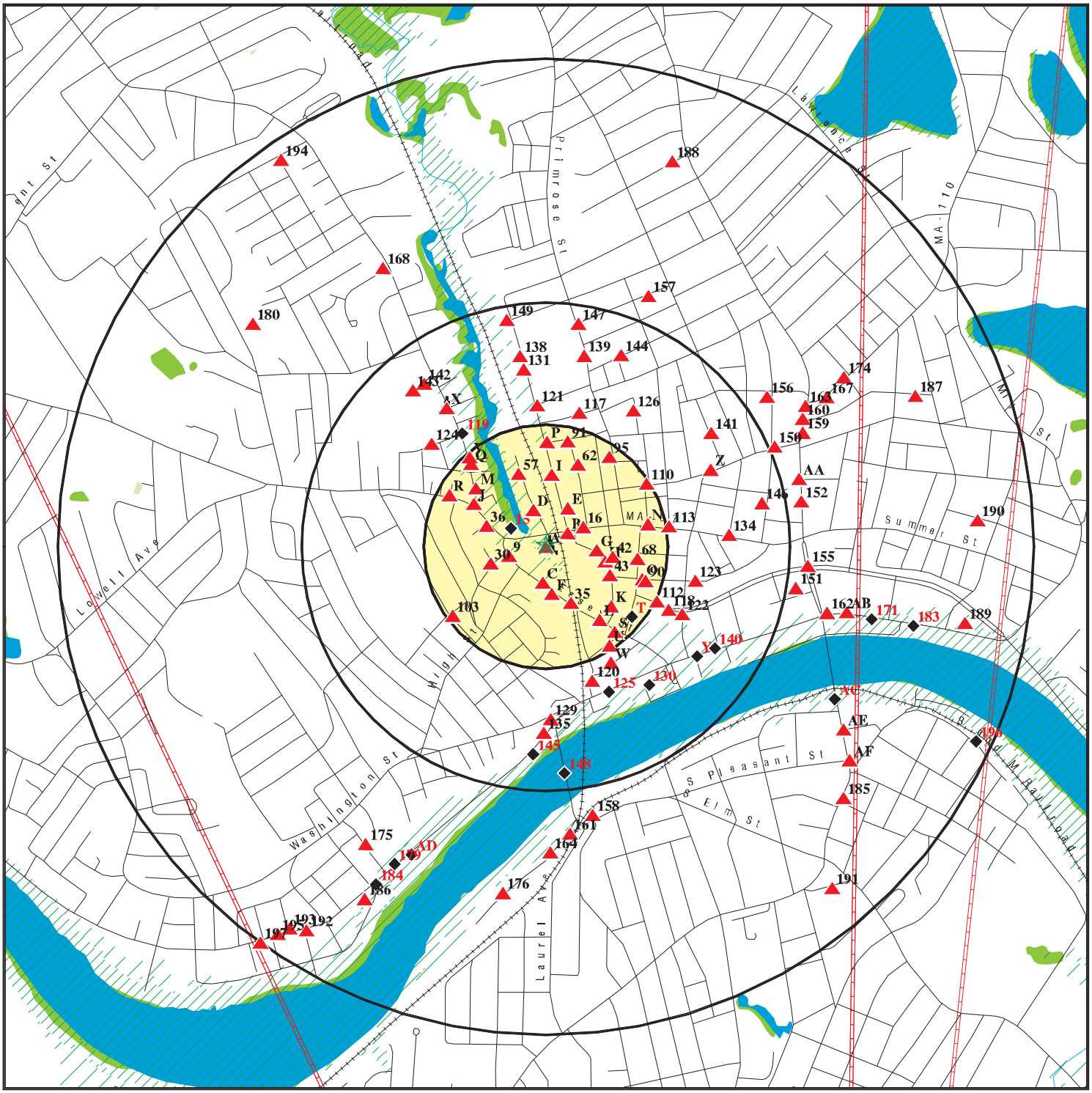
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	13 HILLDALE AVE	NW 1/8 - 1/4 (0.187 mi.)	M66	212
Not reported	7 BROADWAY	WNW 1/8 - 1/4 (0.224 mi.)	R93	264
Not reported	27 CHARLES ST	ENE 1/8 - 1/4 (0.244 mi.)	110	322

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 10 records.

Site Name	Database(s)
STATE HIGHWAY	SHWS, RELEASE
EXIT 52	SHWS, RELEASE
FEEDER LANE FROM ROUTE 125	SHWS, RELEASE
POLE 87	SHWS, RELEASE
ROADWAY	SHWS, RELEASE
NO LOCATION AID	SHWS, RELEASE
PERFECTION DIESEL CO	SHWS, SPILLS, RELEASE
ROUTE 495 RAMP TO RIVER ST AND OVE	SHWS, RELEASE
UTILITY POLE NO 42	SHWS, RELEASE
PLUGS POND	SHWS, RELEASE

OVERVIEW MAP - 04551943.2R



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Pipelines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Areas of Critical Environmental Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Haffner Realty Trust	CLIENT: Ramboll Environ
ADDRESS: 284 Winter St Haverhill MA 01830	CONTACT: Robert Seeley
LAT/LONG: 42.777156 / 71.087692	INQUIRY #: 04551943.2r DATE: March 01, 2016 3:04 pm

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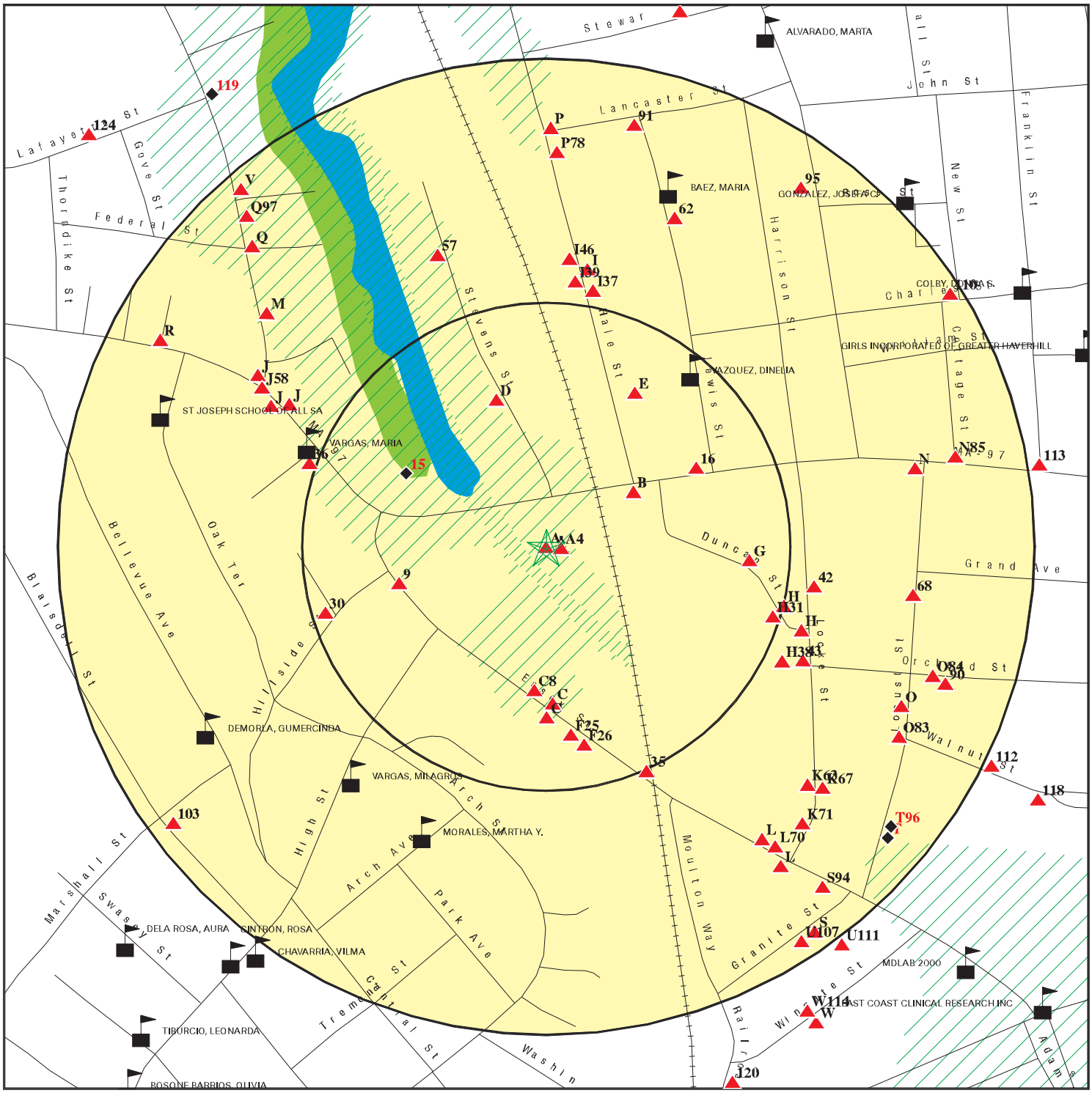
DETAIL MAP - 04551943.2R



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Critical Environmental Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Haffner Realty Trust ADDRESS: 284 Winter St Haverhill MA 01830 LAT/LONG: 42.777156 / 71.087692	CLIENT: Ramboll Environ CONTACT: Robert Seeley INQUIRY #: 04551943.2r DATE: March 01, 2016 3:08 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
CERCLIS	0.500		0	0	1	NR	NR	1
Federal CERCLIS NFRAP site List								
CERCLIS-NFRAP	0.500		0	2	0	NR	NR	2
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	1	NR	NR	NR	1
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		5	3	NR	NR	NR	8
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS	1.000	1	4	15	26	48	NR	94
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LAST	0.500		0	3	4	NR	NR	7
LUST	0.500		0	8	10	NR	NR	18
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST	0.250	1	2	6	NR	NR	NR	9
AST	0.250		0	1	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
INST CONTROL	0.500		1	4	5	NR	NR	10
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	2	0	NR	NR	2
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		2	5	2	NR	NR	9
Local Lists of Landfill / Solid Waste Disposal Sites								
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
SPILLS	0.001	1	0	NR	NR	NR	NR	1
RELEASE	0.001	1	0	NR	NR	NR	NR	1
SPILLS 90	0.001		0	NR	NR	NR	NR	0
SPILLS 80	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		7	13	NR	NR	NR	20
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
AIRS	0.001		0	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	1	NR	NR	NR	1
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001	1	0	NR	NR	NR	NR	1
GWDP	0.001		0	NR	NR	NR	NR	0
HW GEN	0.250		5	12	NR	NR	NR	17
LEAD	0.001		0	NR	NR	NR	NR	0
MERCURY	0.500		0	0	0	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
TIER 2	0.001	1	0	NR	NR	NR	NR	1
TSD	0.500		0	0	0	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		1	0	1	0	NR	2
EDR Hist Auto	0.250	1	5	16	NR	NR	NR	22
EDR Hist Cleaner	0.250		0	3	NR	NR	NR	3
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA HWS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		7	32	95	49	48	0	231

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 Target Property | **HEG 114**
284 WINTER ST
HAVERHILL, MA 01830

Site 1 of 4 in cluster A

SHWS | **U000226758**
UST | **N/A**
RELEASE
Financial Assurance
TIER 2

Actual: 24 ft.

SHWS:

Release Tracking Number/Current Status:	3-0032875 / UNCLSS
Release Town:	HAVERHILL
Notification Date:	05/12/2015
Category:	TWO HR
Associated ID:	Not reported
Current Status:	**Unclassified**
Status Date:	05/12/2015
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Oil and Hazardous Material
Location Type:	COMMERCIAL
Source:	UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	LNAPL
Quantity:	.36 inches
Chemical:	PETROLEUM
Quantity:	10 gallons

Actions:

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	5/12/2015
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	5/12/2015
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	6/3/2015
Response Action Outcome:	Not reported
Action Type:	RNFE
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	7/10/2015
Response Action Outcome:	Not reported
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	7/10/2015
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	7/17/2015
Response Action Outcome:	Not reported

HEG 114 (Continued) **U000226758**

Action Type:	Immediate Response Action
Action Status:	Written Plan Received
Action Date:	7/17/2015
Response Action Outcome:	Not reported

Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	9/11/2015
Response Action Outcome:	Not reported

Release Tracking Number/Current Status:	3-0032792 / UNCLSS
Release Town:	HAVERHILL
Notification Date:	03/30/2015
Category:	120 DY
Associated ID:	Not reported
Current Status:	**Unclassified**
Status Date:	03/30/2015
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Oil and Hazardous Material
Source:	UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	BENZO(A)ANTHRACENE
Quantity:	87 milligrams per kilogram
Chemical:	BENZO(A)PYRENE
Quantity:	110 milligrams per kilogram
Chemical:	CHRYSENE
Quantity:	73 milligrams per kilogram
Chemical:	DIBENZO[A,H]ANTHRACENE
Quantity:	11 milligrams per kilogram
Chemical:	BENZENE
Quantity:	16000 micrograms per liter
Chemical:	C9 THRU C12 ALIPHATIC HYDROCARBONS
Quantity:	2000 milligrams per kilogram
Chemical:	NAPHTHALENE
Quantity:	2900 milligrams per kilogram
Chemical:	PHENANTHRENE
Quantity:	550 milligrams per kilogram
Chemical:	PYRENE
Quantity:	110 micrograms per liter
Chemical:	TOLUENE
Quantity:	230 milligrams per kilogram
Chemical:	XYLENE
Quantity:	6300 micrograms per liter
Chemical:	ACENAPHTHENE
Quantity:	34 milligrams per kilogram
Chemical:	C11 THRU C22 AROMATIC HYDROCARBONS
Quantity:	4000 milligrams per kilogram
Chemical:	C9 THRU C10 AROMATIC HYDROCARBONS
Quantity:	11000 micrograms per liter
Chemical:	ACENAPHTHYLENE
Quantity:	310 milligrams per kilogram

HEG 114 (Continued) **U000226758**

Chemical:	C9 THRU C12 ALIPHATIC HYDROCARBONS
Quantity:	20000 micrograms per liter
Chemical:	FLUORENE
Quantity:	91 micrograms per liter
Chemical:	XYLENE
Quantity:	320 milligrams per kilogram
Chemical:	2-METHYLNAPHTHALENE
Quantity:	570 milligrams per kilogram
Chemical:	BENZO(B)FLUORANTHENE
Quantity:	80 milligrams per kilogram
Chemical:	C9 THRU C10 AROMATIC HYDROCARBONS
Quantity:	150 milligrams per kilogram
Chemical:	ETHYLBENZENE
Quantity:	7000 micrograms per liter
Chemical:	NAPHTHALENE
Quantity:	11000 micrograms per liter
Chemical:	BENZENE
Quantity:	190 milligrams per kilogram
Chemical:	ACENAPHTHYLENE
Quantity:	130 micrograms per liter
Chemical:	ANTHRACENE
Quantity:	59 micrograms per liter
Chemical:	INDENO(1,2,3-CD)PYRENE
Quantity:	38 milligrams per kilogram

Actions:

Action Type:	RNFE
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	3/30/2015
Response Action Outcome:	Not reported
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	3/30/2015
Response Action Outcome:	Not reported
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	3/30/2015
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	4/10/2015
Response Action Outcome:	Not reported

UST:

Facility:

Facility ID:	5252
Owner Id:	10854
Owner:	HEG INC
Owner Address:	1700 SHAWSHEEN ST 2ND FL
Owner City,St,Zip:	TEWKSBURY, MA 01876
Telephone:	(978) 683-2771
Description:	Gas Station
Fire Dept. ID:	9128

HEG 114 (Continued) **U000226758**

Date of Inspection: 03/03/2015

Tank ID: 1
Serial Number: Not reported
Tank Status: In Use
Status Date: Not reported
Date Installed: 05/10/1977
Capacity: 20000
Contents: GasolinE
Tank Type: 1 Wall
Tank Usage: MV
Tank Material: Reinforced
Tank Leak Detection: Approved In-Tank Monitor
Pipe Material: Reinforced
Pipe Container: 2 Walls
Pipe Leak Detection: Product Line Leak Detector
Above Ground: No

Tank ID: 2
Serial Number: Not reported
Tank Status: In Use
Status Date: Not reported
Date Installed: 05/10/1977
Capacity: 20000
Contents: GasolinE
Tank Type: 1 Wall
Tank Usage: MV
Tank Material: Reinforced
Tank Leak Detection: Approved In-Tank Monitor
Pipe Material: Reinforced
Pipe Container: 2 Walls
Pipe Leak Detection: Product Line Leak Detector
Above Ground: No

Tank ID: 3
Serial Number: Not reported
Tank Status: In Use
Status Date: Not reported
Date Installed: 05/10/1977
Capacity: 20000
Contents: GasolinE
Tank Type: 1 Wall
Tank Usage: MV
Tank Material: Reinforced
Tank Leak Detection: Approved In-Tank Monitor
Pipe Material: Reinforced
Pipe Container: 2 Walls
Pipe Leak Detection: Product Line Leak Detector
Above Ground: No

Tank ID: 4
Serial Number: Not reported
Tank Status: In Use

HEG 114 (Continued) **U000226758**

Status Date:	Not reported
Date Installed:	05/10/1977
Capacity:	20000
Contents:	Fuel OiL
Tank Type:	1 Wall
Tank Usage:	Not reported
Tank Material:	Reinforced
Tank Leak Detection:	Approved In-Tank Monitor
Pipe Material:	Reinforced
Pipe Container:	2 Walls
Pipe Leak Detection:	Suction: Check Valve at Dispenser
Above Ground:	No

Tank ID:	5
Serial Number:	Not reported
Tank Status:	**In Use**
Status Date:	Not reported
Date Installed:	05/10/1977
Capacity:	20000
Contents:	Fuel OiL
Tank Type:	1 Wall
Tank Usage:	Not reported
Tank Material:	Reinforced
Tank Leak Detection:	Approved In-Tank Monitor
Pipe Material:	Reinforced
Pipe Container:	2 Walls
Pipe Leak Detection:	Suction: Check Valve at Dispenser
Above Ground:	No

Tank ID:	6
Serial Number:	Not reported
Tank Status:	**In Use**
Status Date:	Not reported
Date Installed:	08/02/1983
Capacity:	6000
Contents:	DieseL
Tank Type:	1 Wall
Tank Usage:	MV
Tank Material:	Cathodic
Tank Leak Detection:	Approved In-Tank Monitor
Pipe Material:	Reinforced
Pipe Container:	2 Walls
Pipe Leak Detection:	Product Line Leak Detector
Above Ground:	No

Release:

Release Tracking Number/Current Status:	3-0032792 / UNCLSS
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	03/30/2015
Category:	120 DY
Status Date:	03/30/2015
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Oil and Hazardous Material

HEG 114 (Continued) **U000226758**

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0032875 / UNCLSS
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	05/12/2015
Category:	TWO HR
Status Date:	05/12/2015
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Oil and Hazardous Material

Click here to access the MA DEP site for this facility:

MA Financial Assurance 2:

Facility Id:	5252
Description:	Gas Station
Work Phone:	(978) 683-2771

TIER 2:

Report Year:	2012
Facility Id:	FATR2012974VLU03FT31
Facility Dept:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Mailing Address:	2 INTERNATIONAL WAY
Mailing City/State/Zip:	01843
Mailing Country:	USA
Notes:	Not reported
All Chemicals Same As Last Yr:	T
Date Signed:	3/31/2013
Dike Or Other Safeguard:	Not reported
Failed Validation:	Not reported
Date Modified:	11/15/2013
Fees Total:	Not reported
Num Of Employees:	Not reported
Site Coord Abbreviated?:	Not reported
Site Map:	Not reported
State Label Code:	MA2012
Submitted By:	PEGGY WILLETT
Validation Report:	Not reported
Fire District:	Not reported
Latlong Location Description:	Not reported
Latlong Method:	Not reported

Record Key:	FDTR2012974VLU03GT3G
Id:	44719
Type:	NAICS
Description:	Not reported
Last Modified:	4/5/2013

Record Key:	FDTR2012974VNH03H8YT
Id:	5541
Type:	SIC

HEG 114 (Continued) **U000226758**

Description: Not reported
Last Modified: 4/5/2013

Contact:
Report Year: 2012
Contact Record Id: CTTR2012974T5H002JRE
Title: PRESIDENT
Contact Name: FOURNIER
Contact Email: Not reported
Contact Mail Address: 2 INTERNATIONAL WAY
Contact Mail City: LAWRENCE
Contact Mail State: MA
Contact Mail Zip: 01843
Contact Mail Country: USA
Contact1 Type: Owner / Operator
Contact2 Type: Not reported
Contact3 Type: Not reported
Contact4 Type: Not reported
Modification Date: 11/15/2013

Contact:
Report Year: 2012
Contact Record Id: CTTR201297509K00223B
Title: SUPERVISOR
Contact Name: FOURNIER
Contact Email: Not reported
Contact Mail Address: 2 INTERNATIONAL WAY
Contact Mail City: LAWRENCE
Contact Mail State: MA
Contact Mail Zip: 01843
Contact Mail Country: USA
Contact1 Type: Emergency Contact
Contact2 Type: Not reported
Contact3 Type: Not reported
Contact4 Type: Not reported
Modification Date: 11/15/2013

Chemicals:
Acute: T
Ave Amount: Not reported
Ave Amount Code: 03
Chem Inv Record Id: CVTR2012974VNX03LM16
Chem Same As Last Yr: T
Chronic: Not reported
CICAS: 68476-30-2
CI EHS Chemical: Not reported
CI Last Modified: 11/15/2013
Days On Site: 365
Entered Chemical Name: FUEL OIL
Fire: T
Gas: Not reported
Liquid: T
Max Amount: Not reported
Max Amount Code: 03

HEG 114 (Continued) **U000226758**

Max Amt Container:	Not reported
Mixture:	T
Pressure:	Not reported
Pure:	Not reported
Reactive:	Not reported
Solid:	Not reported
State01 Checkbox:	Not reported
State01 Number:	9800
State01 Text:	Not reported
State02 Checkbox:	T
State02 Number:	7
State02 Text:	Week
State03 Checkbox:	Not reported
State03 Number:	70560
State03 Text:	Not reported
State04 Checkbox:	Not reported
State04 Number:	70560
State04 Text:	Liquid
State05 Checkbox:	Not reported
State05 Text:	Not reported
State06 Checkbox:	Not reported
State06 Text:	Not reported
State07 Checkbox:	Not reported
State07 Text:	RTS 495, 93 AND 95
State1 Contact Field:	PARKER FUEL CORP., 2 INTERNATIONAL WAY, LAWRENCE, MA 01843, RICK PELLETIER, 978-375-2001
State Label Code:	MA2012
Trade Secret:	Not reported

Location:

Record Key:	CLTR2012974VPM03M7GY
Chem Inv Record Id:	CVTR2012974VNX03LM16
Type Code:	Below Ground Tank
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	EAST 20’ FROM BUILDING
Amount:	Not reported
Amount Unit:	pounds
Last Modified:	11/15/2013

Acute:	T
Ave Amount:	Not reported
Ave Amount Code:	02
Chem Inv Record Id:	CVTR2012974VQ003NK0H
Chem Same As Last Yr:	T
Chronic:	Not reported
CICAS:	68476-34-6
CI EHS Chemical:	Not reported
CI Last Modified:	11/15/2013
Days On Site:	365
Entered Chemical Name:	LOW SULFER DIESEL
Fire:	T
Gas:	Not reported
Liquid:	T
Max Amount:	Not reported
Max Amount Code:	02
Max Amt Container:	Not reported

HEG 114 (Continued) **U000226758**

Mixture:	T
Pressure:	Not reported
Pure:	Not reported
Reactive:	Not reported
Solid:	Not reported
State01 Checkbox:	Not reported
State01 Number:	9800
State01 Text:	Not reported
State02 Checkbox:	T
State02 Number:	7
State02 Text:	Week
State03 Checkbox:	Not reported
State03 Number:	66836
State03 Text:	Not reported
State04 Checkbox:	Not reported
State04 Number:	66836
State04 Text:	Liquid
State05 Checkbox:	Not reported
State05 Text:	Not reported
State06 Checkbox:	Not reported
State06 Text:	Not reported
State07 Checkbox:	Not reported
State07 Text:	RTS 495, 95 AND 93
State1 Contact Field:	PARKER FUEL CORP., 2 INTERNATIONAL WAY, LAWRENCE, MA 01843, RICK PELLETIER, 978-375-2001
State Label Code:	MA2012
Trade Secret:	Not reported

Location:

Record Key:	CLTR2012974VQQ03P60N
Chem Inv Record Id:	CVTR2012974VQ003NK0H
Type Code:	Below Ground Tank
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	EAST 30’ FROM BUILDING
Amount:	Not reported
Amount Unit:	pounds
Last Modified:	11/15/2013

Acute:	T
Ave Amount:	Not reported
Ave Amount Code:	02
Chem Inv Record Id:	CVTR2012974VR003QEYW
Chem Same As Last Yr:	T
Chronic:	Not reported
CICAS:	86290-81-5
CI EHS Chemical:	Not reported
CI Last Modified:	11/15/2013
Days On Site:	365
Entered Chemical Name:	UNLEADED GASOLINE
Fire:	T
Gas:	Not reported
Liquid:	T
Max Amount:	Not reported
Max Amount Code:	02
Max Amt Container:	Not reported
Mixture:	T

HEG 114 (Continued) **U000226758**

Pressure:	Not reported
Pure:	Not reported
Reactive:	Not reported
Solid:	Not reported
State01 Checkbox:	Not reported
State01 Number:	11500
State01 Text:	Not reported
State02 Checkbox:	T
State02 Number:	7
State02 Text:	Week
State03 Checkbox:	Not reported
State03 Number:	69839.5
State03 Text:	Not reported
State04 Checkbox:	Not reported
State04 Number:	69839.5
State04 Text:	Liquid
State05 Checkbox:	Not reported
State05 Text:	Not reported
State06 Checkbox:	Not reported
State06 Text:	Not reported
State07 Checkbox:	Not reported
State07 Text:	RTS 495, 93 AND 95
State1 Contact Field:	PARKER FUEL CORP., 2 INTERNATIONAL WAY, LAWRENCE, MA 01843, RICK PELLETIER, 978-375-2001
State Label Code:	MA2012
Trade Secret:	Not reported

Location:

Record Key:	CLTR2012974VRP03R07S
Chem Inv Record Id:	CVTR2012974VR003QEYW
Type Code:	Below Ground Tank
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	EAST 10' FROM BUILDING
Amount:	Not reported
Amount Unit:	pounds
Last Modified:	11/15/2013

A2 Target Property **HAFFNERS OIL** **SPILLS** **S101018519**
284 WINTER STREET **N/A**
HAVERHILL, MA 01830

Site 2 of 4 in cluster A

Actual: 24 ft.

MA Spills:

Facility ID:	0000	Spill ID:	N88-0552
Staff Lead:	FONKEM, V	Date Entered:	19880517
Last Entered:	19940131	First Response:	19880419
Spill Date:	19880419	Spill Time:	Not reported
Report Date:	19880419	Report Time:	01:40PM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	VIRGIN	Contam Soil:	Not reported
Env Impact:	----------	Other Impact:	Not reported
Material:	MISCELLANEOUS OIL	Other Material:	Not reported
Qty Reported:	NONE	Qty Actual:	NONE
Qty Reported:	----------	Qty Actual:	----------

HAFFNERS OIL (Continued) **S101018519**

CAS No:	Not reported	PCB Lev (ppm):	----------
Source:	OTHER SOURCE >	Other Source:	UNKNOWN
Incident:	OTHER RELEASE >	Other Incdnt:	UNKNOWN
Cleanup Type:	Not reported	Contractor:	NOT USED
Referral:	NO	LUST Elig:	---
Report Prep:	Not reported	Category:	Not reported
Notifier:	Not reported		
Notif Tel:	Not reported		
Days/Close:	0		

A3 **EDR Hist Auto** **1015389071**
Target Property **284 WINTER ST** **N/A**
HAVERHILL, MA 01830

Site 3 of 4 in cluster A

Actual: 24 ft.

EDR Historical Auto Stations:

Name: HAFFNERS SERVICE STATION INCORPORATED
Year: 1999
Address: 284 WINTER ST

Name: HAFFNERS SERVICE STATION INCORPORATED
Year: 2000
Address: 284 WINTER ST

Name: HAFFNERS SERVICE STATION INC
Year: 2001
Address: 284 WINTER ST

Name: HAFFNERS SERVICE STATION INC
Year: 2003
Address: 284 WINTER ST

Name: HAFFNERS SERVICE STA INC
Year: 2005
Address: 284 WINTER ST

Name: HAFFNERS SERVICE STATION INC
Year: 2006
Address: 284 WINTER ST

Name: HAFFNERS SERVICE STATION INC
Year: 2007
Address: 284 WINTER ST

Name: HAFFNERS SERVICE STATION INC
Year: 2008
Address: 284 WINTER ST

Name: HAFFNERS SERVICE STATION INC
Year: 2009
Address: 284 WINTER ST

Name: HAFFNERS SERVICE STATION INC
Year: 2010
Address: 284 WINTER ST

A4
East
< 1/8
0.008 mi.
40 ft.

HAVERHILL GAS LIGHT CO — **EDR MGP** — **1008408442**
WINTER STREET — **N/A**
HAVERHILL, MA 1830

Site 4 of 4 in cluster A

Relative:
Higher

Actual:
25 ft.

Manufactured Gas Plants:
Alternate Name:HAVERHILL GAS WORKS. No additional information available

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B5
ENE
< 1/8
0.053 mi.
279 ft.

COTTMAN TRANSMISSION — **HW GEN** — **S112553181**
262 WINTER ST — **N/A**
HAVERHILL, MA 01830

Site 1 of 3 in cluster B

Relative:
Higher

Actual:
32 ft.

HW GEN:

EPA Id:	MAD982203465
RCRA Generator Status:	VSQG
State Generator Status:	SQG-MA

B6
ENE
< 1/8
0.053 mi.
279 ft.

EDR Hist Auto — **1015373640**
262 WINTER ST — **N/A**
HAVERHILL, MA 01830

Site 2 of 3 in cluster B

Relative:
Higher

Actual:
32 ft.

EDR Historical Auto Stations:

Name:	COTTMAN TRANSMISSION
Year:	2007
Address:	262 WINTER ST
Name:	AAMCO TRANSMISSIONS
Year:	2010
Address:	262 WINTER ST

B7
ENE
< 1/8
0.053 mi.
279 ft.

COTTMAN TRANSMISSION — **RCRA-CESQG** — **1004717426**
262 WINTER ST — **FINDS** — **MAD982203465**
HAVERHILL, MA 01830 — **ECHO**

Site 3 of 3 in cluster B

Relative:
Higher

Actual:
32 ft.

RCRA-CESQG:

Date form received by agency:	06/28/2005
Facility name:	COTTMAN TRANSMISSION
Facility address:	262 WINTER ST HAVERHILL, MA 01830
EPA ID:	MAD982203465
Contact:	MARTIN SHIPON
Contact address:	262 WINTER ST HAVERHILL, MA 018300000
Contact country:	US
Contact telephone:	(917) 469-0078
Contact email:	COTTMAN.HAVERHILL@VERIZON.COM
EPA Region:	01
Land type:	Private

COTTMAN TRANSMISSION (Continued) **1004717426**

Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: LARRY DORR
Owner/operator address: 262 WINTER ST
HAVERHILL, MA 01830
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 06/28/2005
Owner/Op end date: Not reported

Owner/operator name: LARRY DORR
Owner/operator address: 262 WINTER ST
HAVERHILL, MA 01830
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 06/28/2005
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE WASTE

COTTMAN TRANSMISSION (Continued) **1004717426**

. Waste code: MA01
. Waste name: WASTE OIL

Historical Generators:
Date form received by agency: 01/28/1987
Site name: DONS GARAGE INC
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 06/28/2005
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110003480484

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MA-EPICS - Massachussetts Environmental Protection Integrated Computer System

ECHO:
Envid: 1004717426
Registry ID: 110003480484
FIPS Code: 25009
EPA Region: 01
Indian Country Flag: N
Federal Flag: Not reported
US Mexico Border Flag: Not reported
Chesapeake Bay Flag: Not reported
NAA Flag: Y
Latitude: 42.77722
Longitude: -71.08688
Map Icon: RCRA-IC-MN-N.png
Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Reference Point: CENTER OF A FACILITY OR STATION
Accuracy Meters: 30
Derived Tribes: Not reported
Derived Huc: 01070006
Derived WBD: Not reported
Derived STCT FPS: 25009

COTTMAN TRANSMISSION (Continued) **1004717426**

Derived Zip:	01830
Derived CD113:	03
Derived CB2010:	250092601003016
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Y
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	06/28/2005
Days Last Inspection:	3736
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	_____
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported

COTTMAN TRANSMISSION (Continued) **1004717426**

CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	MAD982203465
RCRA Permit Types:	CESQG
RCRA NAICS:	811113
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	3736
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0
RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110003480484
Facility SIC Codes:	Not reported
Facility NAICS Codes:	811113
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	06/28/2005
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

C8
South
< 1/8
0.074 mi.
389 ft.

EDR Hist Auto **1015349740**
N/A

235 ESSEX ST
HAVERHILL, MA 01832

Site 1 of 7 in cluster C

Relative:
Higher

Actual:
32 ft.

EDR Historical Auto Stations:

Name:	BURNS AUTOMOTIVE PARTS INC
Year:	2004
Address:	235 ESSEX ST
Name:	BURNS AUTO PARTS RADIATOR DIV
Year:	2010
Address:	235 ESSEX ST
Name:	BURNS AUTOMOTIVE PARTS INC
Year:	2011
Address:	235 ESSEX ST
Name:	BURNS AUTOMOTIVE PARTS INC
Year:	2012
Address:	235 ESSEX ST

9
WSW
< 1/8
0.077 mi.
409 ft.

EDR Hist Auto **1015264727**
N/A

17 LAFAYETTE
HAVERHILL, MA 01832

Relative:
Higher

Actual:
25 ft.

EDR Historical Auto Stations:

Name:	FOREIGN CAR CENTER
Year:	1999
Address:	17 LAFAYETTE
Name:	FOREIGN CAR CENTER
Year:	2000
Address:	17 LAFAYETTE

D10
NNW
< 1/8
0.080 mi.
420 ft.

RCRA NonGen / NLR **1000422201**
MAD001410026

PENTUCKET TEXTILES INC
14 STEVENS ST
HAVERHILL, MA 01830

Site 1 of 3 in cluster D

Relative:
Higher

Actual:
28 ft.

RCRA NonGen / NLR:

Date form received by agency:	07/14/1980
Facility name:	PENTUCKET TEXTILES INC
Facility address:	14 STEVENS ST HAVERHILL, MA 01830
EPA ID:	MAD001410026
Contact:	UNKNOWN UNKNOWN
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(999) 999-9999
Contact email:	Not reported
EPA Region:	01
Classification:	Non-Generator

PENTUCKET TEXTILES INC (Continued) **1000422201**

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	PENTUCKET TEXTILES INC
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	12/08/1991
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

D11 **DYETEX INC** **SHWS** **U003000388**
NNW **14 STEVENS ST** **UST** **N/A**
< 1/8 **HAVERHILL, MA 01830** **RELEASE**
0.080 mi. **Financial Assurance**
420 ft. **Site 2 of 3 in cluster D**

Relative: Higher

Actual: 28 ft.

SHWS:

Release Tracking Number/Current Status:	3-0026818 / RAO
Release Town:	HAVERHILL
Notification Date:	05/09/2007
Category:	TWO HR
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	03/13/2008
Phase:	Not reported
Response Action Outcome:	A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil Or Haz Material:	Hazardous Material
Location Type:	COMMERCIAL
Source:	30
Source:	55 GALLON
Source:	DRUMS

Click here to access the MA DEP site for this facility:

DYETEX INC (Continued) **U003000388**

Chemicals:

Chemical:	MISC CHEMICAL AND PRODUCTS
Quantity:	1650 gallons
Chemical:	CORROSIVITY CHARACTERISTIC
Quantity:	Not reported

Actions:

Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	10/1/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	10/19/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	10/19/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	3/13/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	3/13/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Response Action Outcome - RAO
Action Status:	Fee Received - FMCRA Use Only
Action Date:	3/21/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	5/15/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	5/17/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	RLFA
Action Status:	FOLOFF

DYETEX INC (Continued) **U003000388**

Action Date: 5/9/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA
Action Status: FLDD1A
Action Date: 5/9/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 5/9/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 5/9/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: FLDISS
Action Date: 5/9/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action
Action Status: IRA Assessment Only
Action Date: 5/9/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 7/27/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 7/6/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 7/6/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action
Action Status: Written Approval of Plan
Action Date: 8/23/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

DYETEX INC (Continued) **U003000388**

Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	9/13/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	9/5/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release Tracking Number/Current Status:	3-0020884 / RAO
Release Town:	HAVERHILL
Notification Date:	07/05/2001
Category:	TWO HR
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	02/20/2002
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Oil
Location Type:	WATERBODY
Source:	UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	#6 FUEL OIL
Quantity:	1000 gallons
Chemical:	UNKNOWN CHEMICAL OF TYPE - OIL
Quantity:	Not reported

Actions:

Action Type:	Immediate Response Action
Action Status:	Written Approval of Plan
Action Date:	10/2/2001
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	11/9/2001
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Response Action Outcome - RAO
Action Status:	Fee Received - FMCRA Use Only
Action Date:	2/19/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received

DYETEX INC (Continued) **U003000388**

Action Date: 2/20/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 2/20/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FLDD1A
Action Date: 7/5/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 7/5/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: FLDISS
Action Date: 7/5/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 7/5/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FLDDO
Action Date: 7/6/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLFLD
Action Date: 7/7/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 8/2/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 9/10/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

DYETEX INC (Continued) **U003000388**

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 9/4/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

UST:

Facility:
Facility ID: 5211
Owner Id: 5228
Owner: DYETEX INC
Owner Address: 14 STEVENS ST
Owner City,St,Zip: HAVERHILL, MA 01830
Telephone: (508) 374-7401
Description: Industrial
Fire Dept. ID: 9128
Date of Inspection: Not reported

Tank ID: 1
Serial Number: Not reported
Tank Status: Removed
Status Date: Not reported
Date Installed: 04/09/1961
Capacity: 5000
Contents: Hazardous
Tank Type: Not reported
Tank Usage: Not reported
Tank Material: Steel
Tank Leak Detection: Not reported
Pipe Material: Not reported
Pipe Container: Pressure
Pipe Leak Detection: Not reported
Above Ground: No

Tank ID: 2
Serial Number: Not reported
Tank Status: In Use
Status Date: Not reported
Date Installed: 04/09/1930
Capacity: 70000
Contents: Fuel Oil
Tank Type: Not reported
Tank Usage: Consumptiv
Tank Material: Concrete
Tank Leak Detection: Not reported
Pipe Material: Not reported
Pipe Container: Pressure
Pipe Leak Detection: Not reported
Above Ground: No

Release:
Release Tracking Number/Current Status: 3-0020884 / RAO
Primary ID: Not reported

DYETEX INC (Continued) **U003000388**

Official City:	HAVERHILL
Notification:	07/05/2001
Category:	TWO HR
Status Date:	02/20/2002
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0026818 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	05/09/2007
Category:	TWO HR
Status Date:	03/13/2008
Phase:	Not reported
Response Action Outcome:	A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil / Haz Material Type:	Hazardous Material

Click here to access the MA DEP site for this facility:

MA Financial Assurance 2:

Facility Id:	5211
Description:	Industrial
Work Phone:	(508) 374-7401

D12 **STEVENS STREET MILL** **US BROWNFIELDS** **1000403986**
NNW **14 STEVENS STREET** **RCRA NonGen / NLR** **MAD001400829**
< 1/8 **HAVERHILL, MA 01830** **US AIRS**
0.080 mi. **FINDS**
420 ft. **Site 3 of 3 in cluster D** **ECHO**

Relative:
Higher

Actual:
28 ft.

US BROWNFIELDS:

Recipient name:	Merrimack Valley Planning Commission
Grant type:	Assessment
Property name:	STEVENS STREET MILL
Property #:	Not reported
Parcel size:	2
Property Description:	Not reported
Latitude:	42.7781178
Longitude:	-71.088035
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983
ACRES property ID:	120761
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	14000

STEVENS STREET MILL (Continued) **1000403986**

Assessment funding source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	EPA
Cleanup funding entity:	Not reported
Grant type:	B
Accomplishment type:	Supplemental Assessment
Accomplishment count:	0
Cooperative agreement #:	96163801
Ownership entity:	Not reported
Current owner:	Not reported
Did owner change:	Not reported
Cleanup required:	Unknown
Video available:	Not reported
Photo available:	Not reported
Institutional controls required:	U
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported

STEVENS STREET MILL (Continued) **1000403986**

VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported

Recipient name:	Merrimack Valley Planning Commission
Grant type:	Assessment
Property name:	STEVENS STREET MILL
Property #:	Not reported
Parcel size:	2
Property Description:	Not reported
Latitude:	42.7781178
Longitude:	-71.088035
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station

STEVENS STREET MILL (Continued) **1000403986**

Datum:	North American Datum of 1983
ACRES property ID:	120761
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	6800
Assessment funding source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	EPA
Cleanup funding entity:	Not reported
Grant type:	B
Accomplishment type:	Supplemental Assessment
Accomplishment count:	0
Cooperative agreement #:	96109201
Ownership entity:	Not reported
Current owner:	Not reported
Did owner change:	Not reported
Cleanup required:	Unknown
Video available:	Not reported
Photo available:	Not reported
Institutional controls required:	U
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Not reported
PCBs found:	Not reported

STEVENS STREET MILL (Continued) **1000403986**

PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported

Recipient name:	Merrimack Valley Planning Commission
Grant type:	Assessment
Property name:	STEVENS STREET MILL

STEVENS STREET MILL (Continued) **1000403986**

Property #:	Not reported
Parcel size:	2
Property Description:	Not reported
Latitude:	42.7781178
Longitude:	-71.088035
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983
ACRES property ID:	120761
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	35000
Assessment funding source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	EPA
Cleanup funding entity:	Not reported
Grant type:	B
Accomplishment type:	Phase II Environmental Assessment
Accomplishment count:	0
Cooperative agreement #:	96109201
Ownership entity:	Not reported
Current owner:	Not reported
Did owner change:	Not reported
Cleanup required:	Unknown
Video available:	Not reported
Photo available:	Not reported
Institutional controls required:	U
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported

STEVENS STREET MILL (Continued) **1000403986**

Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported

STEVENS STREET MILL (Continued) **1000403986**

Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported

Recipient name:	Merrimack Valley Planning Commission
Grant type:	Assessment
Property name:	STEVENS STREET MILL
Property #:	Not reported
Parcel size:	2
Property Description:	Not reported
Latitude:	42.7781178
Longitude:	-71.088035
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983
ACRES property ID:	120761
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	10000
Assessment funding source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	EPA
Cleanup funding entity:	Not reported
Grant type:	B
Accomplishment type:	Phase I Environmental Assessment
Accomplishment count:	1
Cooperative agreement #:	96109201
Ownership entity:	Not reported
Current owner:	Not reported
Did owner change:	Not reported
Cleanup required:	Unknown
Video available:	Not reported
Photo available:	Not reported
Institutional controls required:	U
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported

STEVENS STREET MILL (Continued) **1000403986**

Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported

STEVENS STREET MILL (Continued) **1000403986**

No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported

Recipient name:	Merrimack Valley Planning Commission
Grant type:	Assessment
Property name:	STEVENS STREET MILL
Property #:	Not reported
Parcel size:	2
Property Description:	Not reported
Latitude:	42.7781178
Longitude:	-71.088035
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983
ACRES property ID:	120761
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	35000
Assessment funding source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	EPA
Cleanup funding entity:	Not reported
Grant type:	B
Accomplishment type:	Supplemental Assessment
Accomplishment count:	0
Cooperative agreement #:	96163801
Ownership entity:	Not reported
Current owner:	Not reported
Did owner change:	Not reported
Cleanup required:	Unknown
Video available:	Not reported
Photo available:	Not reported
Institutional controls required:	U
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	Not reported

STEVENS STREET MILL (Continued) **1000403986**

State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported

STEVENS STREET MILL (Continued) **1000403986**

Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported

RCRA NonGen / NLR:

Date form received by agency:	07/29/1980
Facility name:	DYETEX INC
Facility address:	14 STEVENS ST HAVERHILL, MA 01830
EPA ID:	MAD001400829
Contact:	BENNETT GESMER
Contact address:	14 STEVENS ST HAVERHILL, MA 01830
Contact country:	US
Contact telephone:	(508) 373-3826
Contact email:	Not reported
EPA Region:	01
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	DYETEX INC
Owner/operator address:	14 STEVENS ST HAVERHILL, MA 01830
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	03/01/1963
Owner/Op end date:	Not reported

Owner/operator name:	DYETEX INC
Owner/operator address:	14 STEVENS ST HAVERHILL, MA 01830
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	10/16/2004

STEVENS STREET MILL (Continued) **1000403986**

Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D002
. Waste name: CORROSIVE WASTE

Violation Status: No violations found

US AIRS (AFS):
Envid: 1000403986
Region Code: 01
County Code: MA009
Programmatic ID: AIR MA0000002512100202
Facility Registry ID: 110001949937
D and B Number: Not reported
Facility Site Name: DYETEX INC
Primary SIC Code: 2298
NAICS Code: 314991
Default Air Classification Code: SMI
Facility Type of Ownership Code: POF
Air CMS Category Code: Not reported
HPV Status: Not reported

US AIRS (AFS):
Region Code: 01
Programmatic ID: AIR MA0000002512100202
Facility Registry ID: 110001949937
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1987-02-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002512100202
Facility Registry ID: 110001949937
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

STEVENS STREET MILL (Continued) **1000403986**

Activity Date: 1988-01-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002512100202
Facility Registry ID: 110001949937
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1988-02-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002512100202
Facility Registry ID: 110001949937
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1989-01-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002512100202
Facility Registry ID: 110001949937
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1989-07-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002512100202
Facility Registry ID: 110001949937
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1990-01-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002512100202
Facility Registry ID: 110001949937

STEVENS STREET MILL (Continued) **1000403986**

Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1990-01-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002512100202
Facility Registry ID: 110001949937
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1991-01-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002512100202
Facility Registry ID: 110001949937
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1991-01-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002512100202
Facility Registry ID: 110001949937
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1992-01-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002512100202
Facility Registry ID: 110001949937
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1992-03-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

STEVENS STREET MILL (Continued) **1000403986**

Region Code: 01
Programmatic ID: AIR MA0000002512100202
Facility Registry ID: 110001949937
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1993-02-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002512100202
Facility Registry ID: 110001949937
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1994-08-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002512100202
Facility Registry ID: 110001949937
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1995-02-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002512100202
Facility Registry ID: 110001949937
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1996-02-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002512100202
Facility Registry ID: 110001949937
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1997-01-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

STEVENS STREET MILL (Continued) **1000403986**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002512100202
Facility Registry ID: 110001949937
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1998-01-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002512100202
Facility Registry ID: 110001949937
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1999-01-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002512100202
Facility Registry ID: 110001949937
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2000-03-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002512100202
Facility Registry ID: 110001949937
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2001-02-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002512100202
Facility Registry ID: 110001949937
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

STEVENS STREET MILL (Continued) **1000403986**

Activity Date:	2001-11-09 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	01
Programmatic ID:	AIR MA0000002512100202
Facility Registry ID:	110001949937
Air Operating Status Code:	OPR
Default Air Classification Code:	SMI
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2002-02-20 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	01
Programmatic ID:	AIR MA0000002512100202
Facility Registry ID:	110001949937
Air Operating Status Code:	OPR
Default Air Classification Code:	SMI
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2003-02-06 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	01
Programmatic ID:	AIR MA0000002512100202
Facility Registry ID:	110001949937
Air Operating Status Code:	OPR
Default Air Classification Code:	SMI
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2004-02-23 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	01
Programmatic ID:	AIR MA0000002512100202
Facility Registry ID:	110001949937
Air Operating Status Code:	OPR
Default Air Classification Code:	SMI
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2005-02-04 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	01
Programmatic ID:	AIR MA0000002512100202
Facility Registry ID:	110001949937

STEVENS STREET MILL (Continued) **1000403986**

Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-06-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002512100202
Facility Registry ID: 110001949937
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1994-07-26 00:00:00
Activity Status Date: 1994-07-26 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 01
Programmatic ID: AIR MA0000002512100202
Facility Registry ID: 110001949937
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-02-27 00:00:00
Activity Status Date: 2003-02-27 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

FINDS:

Registry ID: 110042301915

Environmental Interest/Information System
US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES) is an federal online database for Brownfields Grantees to electronically submit data directly to EPA.

Registry ID: 110009586493

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MA-EPICS - Massachussetts Environmental Protection Integrated Computer System

Registry ID: 110001949937

STEVENS STREET MILL (Continued) **1000403986**

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

AIR EMISSIONS CLASSIFICATION UNKNOWN

AIR SYNTHETIC MINOR

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MA-EPICS - Massachussetts Environmental Protection Integrated Computer System

ECHO:

Envid:	1000403986
Registry ID:	110042301915
FIPS Code:	25009
EPA Region:	01
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Y
Latitude:	42.77802
Longitude:	-71.08836
Map Icon:	NONE-UNK-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	CENTER OF A FACILITY OR STATION
Accuracy Meters:	30
Derived Tribes:	Not reported
Derived Huc:	01070006
Derived WBD:	Not reported
Derived STCT FPS:	25009
Derived Zip:	01830
Derived CD113:	03
Derived CB2010:	250092607001013
Percent Minority:	Not reported

STEVENS STREET MILL (Continued) **1000403986**

Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	Not reported
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	Not reported
Programs in SNC:	0
Curr Compliance Status:	Not reported
Curr SNC Flag:	N
3yr Compliance Status:	Not reported
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported

STEVENS STREET MILL (Continued) **1000403986**

CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	Not reported
RCRA Permit Types:	Not reported
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	Not reported
RCRA Curr Compliance Status:	Not reported
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	Not reported
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110042301915
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported
Envid:	1000403986
Registry ID:	110009586493
FIPS Code:	25009
EPA Region:	01
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported

STEVENS STREET MILL (Continued) **1000403986**

NAA Flag:	Y
Latitude:	42.77802
Longitude:	-71.08836
Map Icon:	RCRA-IC-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	CENTER OF A FACILITY OR STATION
Accuracy Meters:	30
Derived Tribes:	Not reported
Derived Huc:	01070006
Derived WBD:	Not reported
Derived STCT FPS:	25009
Derived Zip:	01830
Derived CD113:	03
Derived CB2010:	250092607001013
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	_____
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported

STEVENS STREET MILL (Continued) **1000403986**

NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	MAD001410026
RCRA Permit Types:	Other
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0
RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110009586493
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported

STEVENS STREET MILL (Continued) **1000403986**

Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported
Envid:	1000403986
Registry ID:	110001949937
FIPS Code:	25009
EPA Region:	01
Indian Country Flag:	N
Federal Flag:	N
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Y
Latitude:	42.77802
Longitude:	-71.08836
Map Icon:	MULT-IC-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	CENTER OF A FACILITY OR STATION
Accuracy Meters:	30
Derived Tribes:	Not reported
Derived Huc:	01070006
Derived WBD:	Not reported
Derived STCT FPS:	25009
Derived Zip:	01830
Derived CD113:	03
Derived CB2010:	250092607001013
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Y
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	02/27/2003
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	_____
AFS Flag:	Y
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AFS IDS:	MA0000002512100202

STEVENS STREET MILL (Continued) **1000403986**

CAA Permit Types:	Synthetic Minor Emissions
CAA NAICS:	314991
CAA SICS:	2298
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	0
CAA Curr Compliance Status:	No Violation
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	_____
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	MAD001400829
RCRA Permit Types:	Other
RCRA NAICS:	313312
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0
RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	01830DYTXN14STE
TRI Releases Transfers:	Not reported

STEVENS STREET MILL (Continued) **1000403986**

TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Y
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110001949937
Facility SIC Codes:	2298
Facility NAICS Codes:	314991 313312 314994
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	02/27/2003
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

C13 **BRADFORD TOWING CO** **RCRA-CESQG** **1000188747**
South **221 ESSEX ST** **FINDS** **MAD045912540**
< 1/8 **HAVERHILL, MA 01832** **ECHO**
0.080 mi.
424 ft. **Site 2 of 7 in cluster C**

Relative:
Higher

Actual:
35 ft.

RCRA-CESQG:

Date form received by agency:	07/12/2005
Facility name:	BRADFORD TOWING CO
Facility address:	221 ESSEX ST HAVERHILL, MA 01830
EPA ID:	MAD045912540
Contact:	STEPHEN LEBLANC
Contact address:	221 ESSEX ST HAVERHILL, MA 018300000
Contact country:	US
Contact telephone:	(978) 374-0311
Contact email:	Not reported
EPA Region:	01
Land type:	Private
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

BRADFORD TOWING CO (Continued) **1000188747**

Owner/Operator Summary:

Owner/operator name:	STEPHEN J LEBLANC
Owner/operator address:	221 ESSEX ST HAVERHILL, MA 01830
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	06/09/2003
Owner/Op end date:	Not reported

Owner/operator name:	STEPHEN J LEBLANC
Owner/operator address:	221 ESSEX ST HAVERHILL, MA 01830
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	06/09/2003
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: MA98
. Waste name: OFF SPECIFICATION USED OIL FUEL THAT IS SHIPPED USING A HW MANIFEST

Historical Generators:

Date form received by agency:	10/30/1986
Site name:	BRADFORD TOWING CO
Classification:	Not a generator, verified

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE,

BRADFORD TOWING CO (Continued) **1000188747**

ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F004
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: CRESOLS, CRESYLIC ACID, AND NITROBENZENE; AND THE STILL BOTTOMS FROM THE RECOVERY OF THESE SOLVENTS; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Facility Has Received Notices of Violations:

Regulation violated: SR - 30.341(2)
Area of violation: State Statute or Regulation
Date violation determined: 06/29/2005
Date achieved compliance: 01/31/2006
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/02/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 30.061
Area of violation: Generators - General
Date violation determined: 06/29/2005
Date achieved compliance: 01/31/2006
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/02/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 30.341(2)(a) - (c)
Area of violation: State Statute or Regulation
Date violation determined: 06/29/2005
Date achieved compliance: 01/31/2006
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/02/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported

BRADFORD TOWING CO (Continued) **1000188747**

Paid penalty amount: Not reported

Regulation violated: SR - 30.341(5)
Area of violation: State Statute or Regulation
Date violation determined: 06/29/2005
Date achieved compliance: 01/31/2006
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/02/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 30.253(1)(h)9
Area of violation: State Statute or Regulation
Date violation determined: 06/29/2005
Date achieved compliance: 01/31/2006
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/02/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 30.351(9)(c)6
Area of violation: State Statute or Regulation
Date violation determined: 06/29/2005
Date achieved compliance: 01/31/2006
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/02/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 30.253(6)(b)1.
Area of violation: State Statute or Regulation
Date violation determined: 06/29/2005
Date achieved compliance: 01/31/2006
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/02/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

BRADFORD TOWING CO (Continued) **1000188747**

Evaluation Action Summary:

Evaluation date:	01/31/2006
Evaluation:	COMPLIANCE SCHEDULE EVALUATION
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State

Evaluation date:	06/29/2005
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Generators - General
Date achieved compliance:	01/31/2006
Evaluation lead agency:	State

Evaluation date:	06/29/2005
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	State Statute or Regulation
Date achieved compliance:	01/31/2006
Evaluation lead agency:	State

Evaluation date:	06/28/2005
Evaluation:	FOCUSED COMPLIANCE INSPECTION
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State

FINDS:

Registry ID: 110003433231

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MA-EPICS - Massachussetts Environmental Protection Integrated Computer System

ECHO:

Envid:	1000188747
Registry ID:	110003433231
FIPS Code:	25009
EPA Region:	01
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Y
Latitude:	42.77636
Longitude:	-71.08812
Map Icon:	RCRA-IC-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	CENTER OF A FACILITY OR STATION
Accuracy Meters:	30

BRADFORD TOWING CO (Continued) **1000188747**

Derived Tribes:	Not reported
Derived Huc:	01070006
Derived WBD:	Not reported
Derived STCT FPS:	25009
Derived Zip:	01832
Derived CD113:	03
Derived CB2010:	250092608002000
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Y
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	01/31/2006
Days Last Inspection:	3519
Informal Count:	0
Date Last Informal Action:	09/02/2005
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	_____
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported

BRADFORD TOWING CO (Continued) **1000188747**

CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	MAD045912540
RCRA Permit Types:	CESQG
RCRA NAICS:	48841 811111
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	3519
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0
RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110003433231
Facility SIC Codes:	Not reported
Facility NAICS Codes:	811111 48841
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	01/31/2006
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	09/02/2005
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

C14
South
< 1/8
0.080 mi.
424 ft.

BRADFORD TOWING CO
221 ESSEX ST
HAVERHILL, MA 01830

UST **U003000404**
Financial Assurance **N/A**
HW GEN

Site 3 of 7 in cluster C

Relative:
Higher

Actual:
35 ft.

UST:

Facility:

Facility ID:	5218
Owner Id:	837
Owner:	BRADFORD TOWING CO
Owner Address:	221 ESSEX ST
Owner City,St,Zip:	HAVERHILL, MA 01830
Telephone:	(617) 374-0311
Description:	Other
Fire Dept. ID:	9128
Date of Inspection:	Not reported

Tank ID:	1
Serial Number:	Not reported
Tank Status:	**Removed**
Status Date:	Not reported
Date Installed:	06/30/1961
Capacity:	4000
Contents:	Gasoline
Tank Type:	Not reported
Tank Usage:	Not reported
Tank Material:	Steel
Tank Leak Detection:	Not reported
Pipe Material:	Steel
Pipe Container:	Not reported
Pipe Leak Detection:	Not reported
Above Ground:	No

Tank ID:	2
Serial Number:	Not reported
Tank Status:	**Removed**
Status Date:	Not reported
Date Installed:	06/30/1961
Capacity:	4000
Contents:	Gasoline
Tank Type:	Not reported
Tank Usage:	Not reported
Tank Material:	Steel
Tank Leak Detection:	Not reported
Pipe Material:	Steel
Pipe Container:	Not reported
Pipe Leak Detection:	Not reported
Above Ground:	No

Tank ID:	3
Serial Number:	Not reported
Tank Status:	**Removed**
Status Date:	06/02/1998
Date Installed:	05/23/1987
Capacity:	4000

BRADFORD TOWING CO (Continued) **U003000404**

Contents:	Gasoline
Tank Type:	Not reported
Tank Usage:	Not reported
Tank Material:	Steel
Tank Leak Detection:	Not reported
Pipe Material:	Steel
Pipe Container:	Not reported
Pipe Leak Detection:	Not reported
Above Ground:	No

Tank ID:	4
Serial Number:	Not reported
Tank Status:	**Removed**
Status Date:	06/02/1998
Date Installed:	Not reported
Capacity:	500
Contents:	Fuel Oil
Tank Type:	Not reported
Tank Usage:	Not reported
Tank Material:	Not reported
Tank Leak Detection:	Not reported
Pipe Material:	Not reported
Pipe Container:	Not reported
Pipe Leak Detection:	Not reported
Above Ground:	No

MA Financial Assurance 2:

Facility Id:	5218
Description:	Other
Work Phone:	(617) 374-0311

HW GEN:

EPA Id:	MAD045912540
RCRA Generator Status:	VSQG
State Generator Status:	SQG-MA

---

15 WNW < 1/8 0.081 mi. 427 ft. | **NO LOCATION AID 93 LAFAYETTE SQ HAVERHILL, MA** | **SHWS INST CONTROL RELEASE** | **S104482373 N/A**

Relative: Lower

Actual: 23 ft.

SHWS:

Release Tracking Number/Current Status:	3-0018974 / RAO
Release Town:	HAVERHILL
Notification Date:	11/16/1999
Category:	120 DY
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	11/23/1999
Phase:	PHASE II
Response Action Outcome:	B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Oil Or Haz Material:	Oil

NO LOCATION AID (Continued) **S104482373**

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	C5 THRU C8 ALIPHATIC HYDROCARBONS
Quantity:	1210 parts per million

Actions:

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	11/16/1999
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	11/16/1999
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Activity and Use Limitation
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	11/23/1999
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	11/23/1999
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Phase 1
Action Status:	Completion Statement Received
Action Date:	11/23/1999
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Activity and Use Limitation
Action Status:	Level II - Audit Inspection
Action Date:	5/13/2008
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	An activity type that is related to an Audit
Action Status:	NAFNVD
Action Date:	6/9/2008
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

NO LOCATION AID (Continued) **S104482373**

Action Type: Activity and Use Limitation
Action Status: Level I - Technical Screen Audit
Action Date: 8/24/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 8/24/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

INST CONTROL:
Release Tracking Number: 3-0018974
Action Type: AUL
Action Stat: RECPT
Action Date: 11/23/1999
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number: 3-0018974
Action Type: AUL
Action Stat: SNAUDI
Action Date: 05/13/2008
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number: 3-0018974
Action Type: AUL
Action Stat: TSAUD
Action Date: 08/24/2001
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release:
Release Tracking Number/Current Status: 3-0018974 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 11/16/1999
Category: 120 DY
Status Date: 11/23/1999
Phase: PHASE II
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

16 ENE < 1/8 0.087 mi. 458 ft. | **ZARECO IND INC**
241 WINTER ST
HAVERHILL, MA 01830 | **RCRA NonGen / NLR**
FINDS
ECHO | **1000200933**
MAD980912042

Relative: Higher

Actual: 41 ft.

RCRA NonGen / NLR:

Date form received by agency:	04/16/1984
Facility name:	ZARECO IND INC
Facility address:	241 WINTER ST HAVERHILL, MA 01830
EPA ID:	MAD980912042
Contact:	PETER ZAHORUIKO
Contact address:	241 WINTER ST HAVERHILL, MA 01830
Contact country:	US
Contact telephone:	(508) 373-0080
Contact email:	Not reported
EPA Region:	01
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	ZARECO IND INC
Owner/operator address:	241 WINTER ST HAVERHILL, MA 01830
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	03/01/1990
Owner/Op end date:	06/30/1991

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE

ZARECO IND INC (Continued) **1000200933**

SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

FINDS:

Registry ID: 110003457795

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:

Envid:	1000200933
Registry ID:	110003457795
FIPS Code:	25009
EPA Region:	01
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Y
Latitude:	42.77782
Longitude:	-71.08634
Map Icon:	RCRA-IC-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	CENTER OF A FACILITY OR STATION
Accuracy Meters:	30
Derived Tribes:	Not reported
Derived Huc:	01070006
Derived WBD:	Not reported
Derived STCT FPS:	25009
Derived Zip:	01830
Derived CD113:	03
Derived CB2010:	250092601003018
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	0

ZARECO IND INC (Continued) **1000200933**

Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	_____
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	MAD980912042
RCRA Permit Types:	Other
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0

ZARECO IND INC (Continued) **1000200933**

RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110003457795
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

C17 **EDR Hist Auto** **1015330130**
South **218 ESSEX ST** **N/A**
< 1/8 **HAVERHILL, MA 01832**
0.087 mi.
461 ft. **Site 4 of 7 in cluster C**

Relative:
Higher

Actual:
36 ft.

EDR Historical Auto Stations:

Name:	BROADWAY AUTO BODY
Year:	1999
Address:	218 ESSEX ST
Name:	BROADWAY AUTO BODY
Year:	2000
Address:	218 ESSEX ST
Name:	BROADWAY AUTO BODY
Year:	2001
Address:	218 ESSEX ST
Name:	BROADWAY AUTO BODY
Year:	2002
Address:	218 ESSEX ST
Name:	BROADWAY AUTO BODY
Year:	2003

(Continued) **1015330130**

Address: 218 ESSEX ST

Name: BROADWAY AUTO BODY
Year: 2005
Address: 218 ESSEX ST

Name: BROADWAY AUTO BODY
Year: 2006
Address: 218 ESSEX ST

Name: BROADWAY AUTO BODY
Year: 2007
Address: 218 ESSEX ST

Name: BROADWAY AUTO BODY
Year: 2008
Address: 218 ESSEX ST

Name: BROADWAY AUTO BODY
Year: 2009
Address: 218 ESSEX ST

Name: BROADWAY AUTO BODY
Year: 2010
Address: 218 ESSEX ST

Name: BROADWAY AUTO BODY
Year: 2011
Address: 218 ESSEX ST

Name: BROADWAY AUTO BODY
Year: 2012
Address: 218 ESSEX ST

C18 **EDR Hist Auto** **1015328355**
South **216 ESSEX ST** **N/A**
< 1/8 **HAVERHILL, MA 01832**
0.088 mi.
467 ft. **Site 5 of 7 in cluster C**

Relative:
Higher

Actual:
37 ft.

EDR Historical Auto Stations:
Name: BROADWAY AUTO BODY
Year: 2004
Address: 216 ESSEX ST

C19 **BROADWAY AUTO BODY** **HW GEN** **S112552512**
South **216 ESSEX ST** **N/A**
< 1/8 **HAVERHILL, MA 01830**
0.088 mi.
467 ft. **Site 6 of 7 in cluster C**

Relative:
Higher

Actual:
37 ft.

HW GEN:
EPA Id: MAD981207673
RCRA Generator Status: VSQG
State Generator Status: Not reported

C20 South < 1/8 0.088 mi. 467 ft. | **BROADWAY AUTO BODY**
216 ESSEX ST
HAVERHILL, MA 01830 | **RCRA-CESQG FINDS ECHO** | **1000145652 MAD981207673**

Site 7 of 7 in cluster C

Relative: Higher

Actual: 37 ft.

RCRA-CESQG:

Date form received by agency:	06/16/1986
Facility name:	BROADWAY AUTO BODY
Facility address:	216 ESSEX ST HAVERHILL, MA 01830
EPA ID:	MAD981207673
Contact:	GEORGE MANAKIS
Contact address:	216 ESSEX ST HAVERHILL, MA 01830
Contact country:	US
Contact telephone:	(508) 374-0301
Contact email:	Not reported
EPA Region:	01
Land type:	Private
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	GEORGE MANAKAS
Owner/operator address:	216 ESSEX ST HAVERHILL, MA 01830
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	10/16/2004
Owner/Op end date:	Not reported

Owner/operator name:	BROADWAY AUTO BODY
Owner/operator address:	216 ESSEX ST HAVERHILL, MA 01830
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	12/08/1991
Owner/Op end date:	Not reported

Handler Activities Summary:

BROADWAY AUTO BODY (Continued) **1000145652**

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code: D001
. Waste name: IGNITABLE WASTE

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date:	05/23/1986
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State

FINDS:

Registry ID: 110003465401

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MA-EPICS - Massachussetts Environmental Protection Integrated Computer System

ECHO:

Envid:	1000145652
Registry ID:	110003465401
FIPS Code:	25009
EPA Region:	01
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Y
Latitude:	42.77589
Longitude:	-71.08821
Map Icon:	RCRA-IC-MN-N.png

BROADWAY AUTO BODY (Continued) **1000145652**

Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	CENTER OF A FACILITY OR STATION
Accuracy Meters:	30
Derived Tribes:	Not reported
Derived Huc:	01070006
Derived WBD:	Not reported
Derived STCT FPS:	25009
Derived Zip:	01832
Derived CD113:	03
Derived CB2010:	250092608002001
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Y
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	05/23/1986
Days Last Inspection:	10712
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	_____
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported

BROADWAY AUTO BODY (Continued) **1000145652**

CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	MAD981207673
RCRA Permit Types:	CESQG
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	10712
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0
RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110003465401
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	05/23/1986
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported

BROADWAY AUTO BODY (Continued) **1000145652**

TRI Reporter: Not reported
Facility IMP Water Flag: Not reported

E21
NNE
< 1/8
0.091 mi.
481 ft.

ASAP FINISHING CORP
15B HALE ST
HAVERHILL, MA 01831

HW GEN **S112554418**
N/A

Site 1 of 4 in cluster E

Relative:
Higher

Actual:
38 ft.

HW GEN:
EPA Id: MAR000508663
RCRA Generator Status: VSQG
State Generator Status: Not reported

E22
NNE
< 1/8
0.091 mi.
481 ft.

TEK COATING CO INC
15 HALE ST
HAVERHILL, MA 01830

RCRA NonGen / NLR **1010415444**
MAD019395748

Site 2 of 4 in cluster E

Relative:
Higher

Actual:
38 ft.

RCRA NonGen / NLR:
Date form received by agency: 08/15/1980
Facility name: TEK COATING CO INC
Facility address: 15 HALE ST
HAVERHILL, MA 01830
EPA ID: MAD019395748
Contact: A-JOHN GAGNE
Contact address: 15 HALE ST
HAVERHILL, MA 01830
Contact country: US
Contact telephone: (508) 373-3855
Contact email: Not reported
EPA Region: 01
Land type: Private
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: TEK COATING CO INC
Owner/operator address: 15 HALE ST
HAVERHILL, MA 01830
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 03/01/1990
Owner/Op end date: 06/03/1991

Owner/operator name: GAGNE A JOHN
Owner/operator address: 15 HALE ST
HAVERHILL, MA 01830
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 10/16/2004

TEK COATING CO INC (Continued) **1010415444**

Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: U220
. Waste name: BENZENE, METHYL- (OR) TOLUENE

. Waste code: U239
. Waste name: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 05/29/1985
Date achieved compliance: 12/01/1990
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/29/1985
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 05/29/1985
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Generators - General
Date achieved compliance: 12/01/1990
Evaluation lead agency: State

E23 **ASAP FINISHING CORP** **RCRA-CESQG** **1006808122**
NNE **15B HALE ST** **MAR000508663**
< 1/8 **HAVERHILL, MA 01831**
0.091 mi.
481 ft. **Site 3 of 4 in cluster E**

Relative:
Higher

Actual:
38 ft.

RCRA-CESQG:
Date form received by agency: 05/22/2002
Facility name: ASAP FINISHING CORP
Facility address: 15B HALE ST

ASAP FINISHING CORP (Continued) **1006808122**

	HAVERHILL, MA 01831
EPA ID:	MAR000508663
Contact:	SCOTT BERGERON
Contact address:	ROLLINGHILL AVE PLAISTOW, NH 03865
Contact country:	US
Contact telephone:	(603) 382-0905
Contact email:	Not reported
EPA Region:	01
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	ASAP FINISHING CORP
Owner/operator address:	ROLLINGHILL AVE PLAISTOW, NH 03865
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	05/22/2002
Owner/Op end date:	Not reported

Owner/operator name:	KEN SWEET
Owner/operator address:	ROLLINGHILL AVE PLAISTOW, NH 03865
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	05/22/2002
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No

ASAP FINISHING CORP (Continued) **1006808122**

Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

Violation Status: No violations found

E24 NNE < 1/8 0.091 mi. 481 ft. | **ASAP FINISHING CORP** | **RCRA NonGen / NLR** | **1000108035**
15B HALE ST | **FINDS** | **MAD001409796**
HAVERHILL, MA 01830 | **ECHO**

Site 4 of 4 in cluster E

Relative: Higher

Actual: 38 ft.

RCRA NonGen / NLR:
Date form received by agency: 09/17/2004
Facility name: J M B MACHINE & TOOL CO INC
Facility address: 15 HALE ST
HAVERHILL, MA 01830
EPA ID: MAD001409796
Contact: JAMES-M BUCUZZO
Contact address: 15 HALE ST
HAVERHILL, MA 018300000
Contact country: US
Contact telephone: (508) 373-5598
Contact email: Not reported
EPA Region: 01
Land type: Private
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: JMB MACHINE
Owner/operator address: 15 HALE ST
HAVERHILL, MA 01830
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 11/15/1990
Owner/Op end date: Not reported

Owner/operator name: JMB MACHINE
Owner/operator address: 15 HALE ST
HAVERHILL, MA 01830
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private

ASAP FINISHING CORP (Continued) **1000108035**

Owner/Operator Type: Owner
Owner/Op start date: 11/15/1990
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 06/20/1985
Site name: J M B MACHINE & TOOL CO INC
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL

ASAP FINISHING CORP (Continued) **1000108035**

BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 09/17/2004
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110009586787

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Registry ID: 110014350193

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MA-EPICS - Massachussetts Environmental Protection Integrated Computer System

ECHO:
Envid: 1000108035
Registry ID: 110014350193
FIPS Code: 25009
EPA Region: 01
Indian Country Flag: N
Federal Flag: Not reported
US Mexico Border Flag: Not reported
Chesapeake Bay Flag: Not reported
NAA Flag: Y

ASAP FINISHING CORP (Continued) **1000108035**

Latitude:	42.77826
Longitude:	-71.087
Map Icon:	RCRA-IC-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	CENTER OF A FACILITY OR STATION
Accuracy Meters:	30
Derived Tribes:	Not reported
Derived Huc:	01070006
Derived WBD:	010700061401
Derived STCT FPS:	25009
Derived Zip:	01830
Derived CD113:	03
Derived CB2010:	250092601003018
Percent Minority:	20.981
Pop Den:	2269.7
Major Flag:	Not reported
Active Flag:	Y
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	_____
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported

ASAP FINISHING CORP (Continued) **1000108035**

CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	MAR000508663
RCRA Permit Types:	CESQG
RCRA NAICS:	332813 332812
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0
RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110014350193
Facility SIC Codes:	Not reported
Facility NAICS Codes:	332812 332813
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported

ASAP FINISHING CORP (Continued) **1000108035**

Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported
Envid:	1000108035
Registry ID:	110009586787
FIPS Code:	25009
EPA Region:	01
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Y
Latitude:	42.77832
Longitude:	-71.08683
Map Icon:	RCRA-IC-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	CENTER OF A FACILITY OR STATION
Accuracy Meters:	30
Derived Tribes:	Not reported
Derived Huc:	01070006
Derived WBD:	Not reported
Derived STCT FPS:	25009
Derived Zip:	01830
Derived CD113:	03
Derived CB2010:	250092601003018
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	05/29/1985
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	_____
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported

ASAP FINISHING CORP (Continued) **1000108035**

CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	MAD019395748
RCRA Permit Types:	Other
RCRA NAICS:	33991
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0
RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported

ASAP FINISHING CORP (Continued) **1000108035**

Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110009586787
Facility SIC Codes:	Not reported
Facility NAICS Codes:	33991
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	05/29/1985
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

F25 **ESSEX STREET PARKING LOT** **US BROWNFIELDS** **1016456688**
South **200 ESSEX STREET** **FINDS** **N/A**
< 1/8 **HAVERHILL, MA 01830** **ECHO**
0.097 mi.
512 ft. **Site 1 of 2 in cluster F**

Relative:
Higher

Actual:
38 ft.

US BROWNFIELDS:

Recipient name:	Haverhill, City of
Grant type:	Assessment
Property name:	ESSEX STREET PARKING LOT
Property #:	Block 297 15 Lots 1,3,4,5,25,&25
Parcel size:	2.12
Property Description:	vacant property used as parking lot
Latitude:	42.7759862
Longitude:	-71.087769
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983
ACRES property ID:	159423
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	4000
Assessment funding source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	EPA
Cleanup funding entity:	Not reported
Grant type:	H
Accomplishment type:	Phase I Environmental Assessment
Accomplishment count:	1
Cooperative agreement #:	97137401

ESSEX STREET PARKING LOT (Continued) **1016456688**

Ownership entity:	Private
Current owner:	Kifor Development LLC and Essex County Greenbelt Association
Did owner change:	N
Cleanup required:	Unknown
Video available:	No
Photo available:	No
Institutional controls required:	U
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	2.12
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported

ESSEX STREET PARKING LOT (Continued) **1016456688**

Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported

FINDS:

Registry ID: 110056365286

Environmental Interest/Information System
US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES) is an federal online database for Brownfields Grantees to electronically submit data directly to EPA.

ECHO:

Envid:	1016456688
Registry ID:	110056365286
FIPS Code:	25009
EPA Region:	01
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Y
Latitude:	42.775735

ESSEX STREET PARKING LOT (Continued) **1016456688**

Longitude:	-71.08723
Map Icon:	NONE-UNK-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	ENTRANCE POINT OF A FACILITY OR STATION
Accuracy Meters:	50
Derived Tribes:	Not reported
Derived Huc:	01070006
Derived WBD:	010700061401
Derived STCT FPS:	25009
Derived Zip:	01832
Derived CD113:	03
Derived CB2010:	250092608002000
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	Not reported
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	Not reported
Programs in SNC:	0
Curr Compliance Status:	Not reported
Curr SNC Flag:	N
3yr Compliance Status:	Not reported
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported

ESSEX STREET PARKING LOT (Continued) **1016456688**

CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	Not reported
RCRA Permit Types:	Not reported
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	Not reported
RCRA Curr Compliance Status:	Not reported
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	Not reported
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110056365286
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported

ESSEX STREET PARKING LOT (Continued) **1016456688**

Facility Date Last Informal ACT ST: Not reported
Facility Federal Agency: Not reported
TRI Reporter: Not reported
Facility IMP Water Flag: Not reported

F26
South
< 1/8
0.103 mi.
544 ft.

NO LOCATION AID **SHWS** **S104562567**
NEAR 190 ESSEX ST **RELEASE** **N/A**
HAVERHILL, MA 01830

Site 2 of 2 in cluster F

Relative:
Higher

Actual:
39 ft.

SHWS:
Release Tracking Number/Current Status: 3-0019526 / RAO
Release Town: HAVERHILL
Notification Date: 05/08/2000
Category: TWO HR
Associated ID: Not reported
Current Status: **Response Action Outcome**
Status Date: 07/05/2000
Phase: Not reported
Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil Or Haz Material: Oil
Location Type: ROADWAY
Source: VEHICLE

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: DIESEL FUEL
Quantity: 50 gallons
Chemical: DIESEL
Quantity: 100 gallons

Actions:
Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 5/22/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 5/8/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 5/8/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action
Action Status: Oral Approval of a Modified Plan
Action Date: 5/8/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced

NO LOCATION AID (Continued) **S104562567**

to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 6/20/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 7/5/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 7/5/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Release Tracking Number/Current Status: 3-0019526 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 05/08/2000
Category: TWO HR
Status Date: 07/05/2000
Phase: Not reported
Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

G27 **MASON & HAMLIN PIANO CO** **HW GEN** **S112554173**
East **35 DUNCAN ST** **N/A**
< 1/8 **HAVERHILL, MA 01830**
0.104 mi.
551 ft. **Site 1 of 3 in cluster G**

Relative:
Higher

Actual:
32 ft.

HW GEN:
EPA Id: MAR000015693
RCRA Generator Status: VSQG
State Generator Status: VQG-MA

G28 East < 1/8 0.104 mi. 551 ft. | **FALCONE PIANO CO INC**
35 DUNCAN ST
HAVERHILL, MA 01830 | **RCRA-CESQG**
FINDS
ECHO | **1004718309**
MAR000015693

Site 2 of 3 in cluster G

Relative: Higher

Actual: 32 ft.

RCRA-CESQG:

Date form received by agency:	05/31/2000
Facility name:	MASON & HAMLIN PIANO CO
Facility address:	35 DUNCAN ST HAVERHILL, MA 01830
EPA ID:	MAR000015693
Contact:	JEFFREY G VORCE
Contact address:	35 DUNCAN ST HAVERHILL, MA 018300000
Contact country:	US
Contact telephone:	(978) 374-8888
Contact email:	Not reported
EPA Region:	01
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	MASON & HAMLIN PIANO CO
Owner/operator address:	35 DUNCAN ST HAVERHILL, MA 01830
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	06/02/1999
Owner/Op end date:	Not reported

Owner/operator name:	B & B GENERAL PARTNERSHIP
Owner/operator address:	35 DUNCAN ST HAVERHILL, MA 01830
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	06/02/1999
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No

FALCONE PIANO CO INC (Continued) **1004718309**

Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: MA01
. Waste name: WASTE OIL

Historical Generators:
Date form received by agency: 02/05/2000
Site name: MASON & HAMLIN PIANO CO
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: MA01
. Waste name: WASTE OIL

Violation Status: No violations found

FINDS:

Registry ID: 110003451158

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MA-EPICS - Massachussetts Environmental Protection Integrated Computer System

Registry ID: 110009594956

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

FALCONE PIANO CO INC (Continued) **1004718309**

corrective action activities required under RCRA.

MA-EPICS - Massachussetts Environmental Protection Integrated Computer System

ECHO:

Envid:	1004718309
Registry ID:	110003451158
FIPS Code:	25009
EPA Region:	01
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Y
Latitude:	42.77695
Longitude:	-71.08533
Map Icon:	RCRA-IC-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	CENTER OF A FACILITY OR STATION
Accuracy Meters:	30
Derived Tribes:	Not reported
Derived Huc:	01070006
Derived WBD:	Not reported
Derived STCT FPS:	25009
Derived Zip:	01830
Derived CD113:	03
Derived CB2010:	250092601003032
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	08/20/2004
Days Last Inspection:	4048
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	_____
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported

FALCONE PIANO CO INC (Continued) **1004718309**

CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	MAD121005441
RCRA Permit Types:	Other
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	4048
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0
RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported

FALCONE PIANO CO INC (Continued) **1004718309**

TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110003451158
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	08/20/2004
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

Envid:	1004718309
Registry ID:	110009594956
FIPS Code:	25009
EPA Region:	01
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Y
Latitude:	42.77695
Longitude:	-71.08533
Map Icon:	RCRA-IC-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	CENTER OF A FACILITY OR STATION
Accuracy Meters:	30
Derived Tribes:	Not reported
Derived Huc:	01070006
Derived WBD:	Not reported
Derived STCT FPS:	25009
Derived Zip:	01830
Derived CD113:	03
Derived CB2010:	250092601003032
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Y
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0

FALCONE PIANO CO INC (Continued) **1004718309**

Penalty Count:	0
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	_____
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	MAR000015693
RCRA Permit Types:	CESQG
RCRA NAICS:	339992
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported

FALCONE PIANO CO INC (Continued) **1004718309**

RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0
RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110009594956
Facility SIC Codes:	Not reported
Facility NAICS Codes:	339992
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

G29 **FALCONE PIANO CO INC** **RCRA NonGen / NLR** **1000179878**
East **35 DUNCAN ST** **MAD121005441**
< 1/8 **HAVERHILL, MA 01830**
0.104 mi.
551 ft. **Site 3 of 3 in cluster G**

Relative:
Higher

Actual:
32 ft.

RCRA NonGen / NLR:

Date form received by agency:	08/20/2004
Facility name:	FALCONE PIANO CO INC
Facility address:	35 DUNCAN ST HAVERHILL, MA 01830
EPA ID:	MAD121005441
Contact:	GEORGE BRAMBILLA
Contact address:	35 DUNCAN ST HAVERHILL, MA 01830
Contact country:	US
Contact telephone:	(508) 372-8300
Contact email:	Not reported
EPA Region:	01
Land type:	Private
Classification:	Non-Generator

FALCONE PIANO CO INC (Continued) **1000179878**

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	FALCONE PIANO CO INC
Owner/operator address:	35 DUNCAN ST HAVERHILL, MA 01830
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/1900
Owner/Op end date:	Not reported

Owner/operator name:	FALCONE PIANO CO INC
Owner/operator address:	35 DUNCAN ST HAVERHILL, MA 01830
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	03/01/1983
Owner/Op end date:	06/02/1999

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	06/23/1987
Site name:	FALCONE PIANO CO INC
Classification:	Small Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date:	08/20/2004
Evaluation:	FOCUSED COMPLIANCE INSPECTION
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State

30 WSW < 1/8 0.118 mi. 623 ft. | **RESIDENTIAL PROPERTY**
10 1/2 HILLSIDE PL
HAVERHILL, MA 01830 | **SHWS RELEASE LEAD** | **S107266945 N/A**

Relative: Higher

Actual: 33 ft.

SHWS:

Release Tracking Number/Current Status:	3-0027797 / RAO
Release Town:	HAVERHILL
Notification Date:	06/25/2008
Category:	TWO HR
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	10/30/2008
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Oil
Location Type:	RESIDNTIAL
Source:	32GALTRSH
Source:	BARREL

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	OIL
Quantity:	30 gallons
Chemical:	FUEL OIL #2
Quantity:	30 gallons

Actions:

Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	10/30/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	Level I - Technical Screen Audit
Action Date:	11/13/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	6/25/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	6/26/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	7/15/2008

RESIDENTIAL PROPERTY (Continued) **S107266945**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of a Modified Plan
Action Date: 8/5/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 8/5/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 8/7/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 9/2/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Imminent Hazard Evaluation Received
Action Date: 9/2/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 9/8/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 9/9/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Release Tracking Number/Current Status: 3-0027797 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 06/25/2008
Category: TWO HR
Status Date: 10/30/2008
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Oil

RESIDENTIAL PROPERTY (Continued) **S107266945**

Click here to access the MA DEP site for this facility:

LEAD:

Community:	Haverhill
Unit:	2
Inspector Name:	Richard Holmes
Inspector License Number:	1837
Activity Type:	INSPECT
Activity Date:	04/10/1989
Start Work Date:	Not reported
Activity Descriptions:	Comprehensive Initial Inspection
Outcomes:	Hazards Found

Community:	Haverhill
Unit:	2
Inspector Name:	Richard Holmes
Inspector License Number:	1837
Activity Type:	COMPLIANCE
Activity Date:	06/19/1989
Start Work Date:	Not reported
Activity Descriptions:	Letter of Full Deleading Comp
Outcomes:	Issued

Community:	Haverhill
Unit:	2
Inspector Name:	Richard Holmes
Inspector License Number:	1837
Activity Type:	INSPECT
Activity Date:	12/01/1998
Start Work Date:	Not reported
Activity Descriptions:	PCAD
Outcomes:	Hazards Found

Community:	Haverhill
Unit:	2
Inspector Name:	Richard Holmes
Inspector License Number:	1837
Activity Type:	COMPLIANCE
Activity Date:	12/01/1998
Start Work Date:	Not reported
Activity Descriptions:	Cert of Maintained Compliance
Outcomes:	Issued

Community:	Haverhill
Unit:	3
Inspector Name:	Richard Holmes
Inspector License Number:	1837
Activity Type:	INSPECT
Activity Date:	12/01/1998
Start Work Date:	Not reported
Activity Descriptions:	Comprehensive Initial Inspection
Outcomes:	No Hazards Found

Community:	Haverhill
Unit:	3
Inspector Name:	Richard Holmes

RESIDENTIAL PROPERTY (Continued) **S107266945**

Inspector License Number: 1837
Activity Type: COMPLIANCE
Activity Date: 12/01/1998
Start Work Date: Not reported
Activity Descriptions: Letter of Full Initial Insp Comp
Outcomes: Issued

Community: Haverhill
Unit: 3
Inspector Name: Richard Holmes
Inspector License Number: 1837
Activity Type: INSPECT
Activity Date: 03/24/2000
Start Work Date: Not reported
Activity Descriptions: PCAD
Outcomes: No Hazards Found

Community: Haverhill
Unit: 3
Inspector Name: Richard Holmes
Inspector License Number: 1837
Activity Type: COMPLIANCE
Activity Date: 04/08/2000
Start Work Date: Not reported
Activity Descriptions: Cert of Restored Compliance
Outcomes: Issued

H31 **PLASTEK CORP** **RCRA NonGen / NLR** **1000388406**
ESE **10 DUNCAN ST.** **FINDS** **MAD080037229**
< 1/8 **HAVERHILL, MA 01830** **ECHO**
0.121 mi.
641 ft. **Site 1 of 7 in cluster H**

Relative:
Higher

Actual:
28 ft.

RCRA NonGen / NLR:
Date form received by agency: 03/19/1982
Facility name: GI PLASTEK CORPORATION
Facility address: 10 DUNCAN ST
HAVERHILL, MA 01830
EPA ID: MAD080037229
Mailing address: PO BOX 551
HAVERHILL, MA 01830
Contact: RAY DANDURANT
Contact address: PO BOX 551
HAVERHILL, MA 01830
Contact country: US
Contact telephone: (508) 372-6418
Contact email: Not reported
EPA Region: 01
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: GI PLASTEK CORPORATION
Owner/operator address: PO BOX 551
HAVERHILL, MA 01830
Owner/operator country: US
Owner/operator telephone: Not reported

PLASTEK CORP (Continued) **1000388406**

Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 03/01/1990
Owner/Op end date: 06/03/1991

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

FINDS:

Registry ID: 110001949946

Environmental Interest/Information System
AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

PLASTEK CORP (Continued) **1000388406**

ECHO:

Envid:	1000388406
Registry ID:	110001949946
FIPS Code:	25009
EPA Region:	01
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Y
Latitude:	42.77634
Longitude:	-71.08528
Map Icon:	RCRA-IC-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	CENTER OF A FACILITY OR STATION
Accuracy Meters:	30
Derived Tribes:	Not reported
Derived Huc:	01070006
Derived WBD:	Not reported
Derived STCT FPS:	25009
Derived Zip:	01830
Derived CD113:	03
Derived CB2010:	250092601003016
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	_____
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported

PLASTEK CORP (Continued) **1000388406**

CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	MAD080037229
RCRA Permit Types:	Other
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0
RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported

PLASTEK CORP (Continued) **1000388406**

FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110001949946
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

H32 **EDR Hist Auto** **1015665532**
ESE **9 DUNCAN ST** **N/A**
1/8-1/4 **HAVERHILL, MA 01830**
0.125 mi.
662 ft. **Site 2 of 7 in cluster H**

Relative:
Higher

Actual:
30 ft.

EDR Historical Auto Stations:

Name:	EUROPEAN AUTO BODY
Year:	1999
Address:	9 DUNCAN ST
Name:	EUROPEAN AUTO BODY
Year:	2000
Address:	9 DUNCAN ST
Name:	EUROPEAN AUTO BODY
Year:	2001
Address:	9 DUNCAN ST
Name:	EUROPEAN AUTO BODY
Year:	2002
Address:	9 DUNCAN ST
Name:	EUROPEAN AUTO BODY
Year:	2003
Address:	9 DUNCAN ST
Name:	EUROPEAN AUTO BODY
Year:	2004
Address:	9 DUNCAN ST
Name:	EUROPEAN AUTO BODY
Year:	2005
Address:	9 DUNCAN ST
Name:	EUROPEAN AUTO BODY
Year:	2006
Address:	9 DUNCAN ST
Name:	EUROPEAN AUTO BODY
Year:	2007
Address:	9 DUNCAN ST

(Continued) **1015665532**

Name: EUROPEAN AUTO BODY
Year: 2009
Address: 9 DUNCAN ST

Name: EUROPEAN AUTO BODY
Year: 2010
Address: 9 DUNCAN ST

Name: EUROPEAN AUTO BODY
Year: 2011
Address: 9 DUNCAN ST

Name: EUROPEAN AUTO BODY
Year: 2012
Address: 9 DUNCAN ST

H33 **EUROPEAN AUTOBODY DBA** **HW GEN** **S112552242**
ESE **9 DUNCAN ST** **N/A**
1/8-1/4 **HAVERHILL, MA 01830**
0.125 mi.
662 ft. **Site 3 of 7 in cluster H**

Relative:
Higher

Actual:
30 ft.

HW GEN:
EPA Id: MAD981060908
RCRA Generator Status: VSQG
State Generator Status: VQG-MA

H34 **EUROPEAN AUTOBODY DBA** **RCRA-CESQG** **1000286816**
ESE **9 DUNCAN ST** **FINDS** **MAD981060908**
1/8-1/4 **HAVERHILL, MA 01830** **ECHO**
0.125 mi.
662 ft. **Site 4 of 7 in cluster H**

Relative:
Higher

Actual:
30 ft.

RCRA-CESQG:
Date form received by agency: 07/05/2005
Facility name: EUROPEAN AUTOBODY DBA
Facility address: 9 DUNCAN ST
HAVERHILL, MA 01830
EPA ID: MAD981060908
Mailing address: 815 SOUTH MAIN STREET
HAVERHILL, MA 018350000
Contact: STEVEN LAMBROU
Contact address: 815 SOUTH MAIN STREET
HAVERHILL, MA 018350000
Contact country: US
Contact telephone: (978) 521-7000
Contact email: SM162@YAHOO.COM
EPA Region: 01
Land type: Private
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any

EUROPEAN AUTOBODY DBA (Continued) **1000286816**

land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	STEVEN LAMBROU
Owner/operator address:	815 SOUTH MAIN STREET HAVERHILL, MA 01835
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	07/05/2005
Owner/Op end date:	Not reported

Owner/operator name:	STEVEN LAMBROU
Owner/operator address:	815 SOUTH MAIN STREET HAVERHILL, MA 01835
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	07/05/2005
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL

EUROPEAN AUTOBODY DBA (Continued) **1000286816**

ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: MA98
. Waste name: OFF SPECIFICATION USED OIL FUEL THAT IS SHIPPED USING A HW MANIFEST

Historical Generators:
Date form received by agency: 02/03/1986
Site name: QUALITY EUROPEAN AUTO BODY
Classification: Not a generator, verified

. Waste code: D001
. Waste name: IGNITABLE WASTE

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 06/28/2005
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110003459221

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MA-EPICS - Massachussetts Environmental Protection Integrated Computer System

ECHO:
Envid: 1000286816

EUROPEAN AUTOBODY DBA (Continued) **1000286816**

Registry ID:	110003459221
FIPS Code:	25009
EPA Region:	01
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Y
Latitude:	42.77692
Longitude:	-71.08529
Map Icon:	RCRA-IC-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	CENTER OF A FACILITY OR STATION
Accuracy Meters:	30
Derived Tribes:	Not reported
Derived Huc:	01070006
Derived WBD:	Not reported
Derived STCT FPS:	25009
Derived Zip:	01830
Derived CD113:	03
Derived CB2010:	250092601003032
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Y
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	06/28/2005
Days Last Inspection:	3736
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	_____
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported

EUROPEAN AUTOBODY DBA (Continued) **1000286816**

CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	MAD981060908
RCRA Permit Types:	CESQG
RCRA NAICS:	811121
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	3736
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0
RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported

EUROPEAN AUTOBODY DBA (Continued) **1000286816**

GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110003459221
Facility SIC Codes:	Not reported
Facility NAICS Codes:	811121
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	06/28/2005
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

35
SSE
1/8-1/4
0.126 mi.
664 ft.

151 ESSEX ST **EDR Hist Auto** **1015239903**
HAVERHILL, MA 01832 **N/A**

Relative:
Higher

Actual:
35 ft.

EDR Historical Auto Stations:

Name:	110 MOBIL
Year:	1999
Address:	151 ESSEX ST

36
WNW
1/8-1/4
0.129 mi.
679 ft.

17 LAFAYETTE AVE **EDR Hist Auto** **1015264724**
HAVERHILL, MA 01832 **N/A**

Relative:
Higher

Actual:
28 ft.

EDR Historical Auto Stations:

Name:	FOREIGN CAR CTR
Year:	2003
Address:	17 LAFAYETTE AVE

I37
North
1/8-1/4
0.133 mi.
704 ft.

35 HALE ST **EDR Hist Auto** **1015441753**
HAVERHILL, MA 01830 **N/A**

Site 1 of 5 in cluster I

Relative:
Higher

Actual:
38 ft.

EDR Historical Auto Stations:

Name:	STRYKS AUTOMOTIVE
Year:	2001
Address:	35 HALE ST
Name:	STRYKS AUTOMOTIVE
Year:	2002
Address:	35 HALE ST
Name:	STRYKS AUTOMOTIVE
Year:	2003
Address:	35 HALE ST

(Continued) **1015441753**

Name: STRYKS AUTOMOTIVE
Year: 2004
Address: 35 HALE ST

Name: STRYKS AUTOMOTIVE
Year: 2005
Address: 35 HALE ST

Name: STRYKS AUTOMOTIVE
Year: 2006
Address: 35 HALE ST

Name: STRYKS AUTOMOTIVE
Year: 2007
Address: 35 HALE ST

Name: STRYKES AUTOMOTIVE
Year: 2008
Address: 35 HALE ST

Name: STRYKES AUTOMOTIVE
Year: 2009
Address: 35 HALE ST

Name: STRYKS AUTOMOTIVE
Year: 2010
Address: 35 HALE ST

Name: STRYKS AUTOMOTIVE
Year: 2011
Address: 35 HALE ST

Name: STRYKS AUTOMOTIVE
Year: 2012
Address: 35 HALE ST

H38 **NO LOCATION AID** **SHWS** **S103811910**
ESE **60 TO 62 LOCKE ST** **RELEASE** **N/A**
1/8-1/4 **HAVERHILL, MA**
0.134 mi.
709 ft. **Site 5 of 7 in cluster H**

Relative:
Higher

Actual:
26 ft.

SHWS:

Release Tracking Number/Current Status:	3-0020718 / RAONR
Release Town:	HAVERHILL
Notification Date:	05/18/2001
Category:	72 HR
Associated ID:	Not reported
Current Status:	**Response Action Outcome Not Required**
Status Date:	04/09/2002
Phase:	PHASE III
Response Action Outcome:	-
Oil Or Haz Material:	Not reported
Location Type:	COMMERCIAL
Source:	UNKNOWN

Click here to access the MA DEP site for this facility:

NO LOCATION AID (Continued) **S103811910**

Chemicals:
Chemical: NAPL
Quantity: 12 inches

Actions:
Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 10/23/2001
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 10/23/2001
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 2/19/2002
Response Action Outcome: Not reported

Action Type: RAO Not Required
Action Status: Linked to a Tier Classified Site
Action Date: 4/9/2002
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 4/9/2002
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 4/9/2002
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 5/18/2001
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 5/18/2001
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 7/11/2002
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 8/29/2001
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action
Action Status: Interim Deadline Letter Issued

NO LOCATION AID (Continued) **S103811910**

Action Date: 8/29/2001
Response Action Outcome: Not reported

Release:
Release Tracking Number/Current Status: 3-0020718 / RAONR
Primary ID: Not reported
Official City: HAVERHILL
Notification: 05/18/2001
Category: 72 HR
Status Date: 04/09/2002
Phase: PHASE III
Response Action Outcome: -
Oil / Haz Material Type: Not reported

Click here to access the MA DEP site for this facility:

I39 North 1/8-1/4 0.137 mi. 722 ft. | **STRYKS AUTOMOTIVE** | **HW GEN** | **S112559988**
36 HALE ST | **N/A**
HAVERHILL, MA 01830

Site 2 of 5 in cluster I

Relative: Higher
Actual: 35 ft.

HW GEN:
EPA Id: MV9783744419
RCRA Generator Status: VSQG
State Generator Status: SQG-MA

H40 ESE 1/8-1/4 0.138 mi. 726 ft. | **FMR TRANSFORMER AREA TRC-8** | **SHWS RELEASE** | **S108962750**
62 LOCKE ST | **N/A**
HAVERHILL, MA 01830

Site 6 of 7 in cluster H

Relative: Higher
Actual: 28 ft.

SHWS:
Release Tracking Number/Current Status: 3-0027349 / RAO
Release Town: HAVERHILL
Notification Date: 12/26/2007
Category: 120 DY
Associated ID: Not reported
Current Status: **Response Action Outcome**
Status Date: 08/11/2008
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material: Oil and Hazardous Material

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: BENZO[B]FLUORANTHENE
Quantity: 23.4 milligrams per kilogram
Chemical: AROCLOR 1254

FMR TRANSFORMER AREA TRC-8 (Continued) **S108962750**

Quantity:	3.82 milligrams per kilogram
Chemical:	CHRYSENE
Quantity:	24.2 milligrams per kilogram
Chemical:	BENZO[A]PYRENE
Quantity:	21.9 milligrams per kilogram
Chemical:	BENZO[A]ANTHRACENE
Quantity:	24.5 milligrams per kilogram
Chemical:	C11 THRU C22 AROMATIC HYDROCARBONS
Quantity:	217 milligrams per kilogram
Chemical:	NAPHTHALENE
Quantity:	4 milligrams per kilogram
Chemical:	DIBENZ[A,H]ANTHRACENE
Quantity:	4.54 milligrams per kilogram
Chemical:	INDENO(1,2,3-CD)PYRENE
Quantity:	19.9 milligrams per kilogram

Actions:

Action Type:	Release Abatement Measure
Action Status:	Level I - Technical Screen Audit
Action Date:	1/14/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	1/23/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Abatement Measure
Action Status:	Written Plan Received
Action Date:	1/8/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Abatement Measure
Action Status:	Fee Received - FMCRA Use Only
Action Date:	1/9/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	12/26/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	12/26/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Abatement Measure
Action Status:	Completion Statement Received
Action Date:	5/21/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

FMR TRANSFORMER AREA TRC-8 (Continued) **S108962750**

Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	8/11/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Response Action Outcome - RAO
Action Status:	Fee Received - FMCRA Use Only
Action Date:	8/15/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Response Action Outcome - RAO
Action Status:	Level I - Technical Screen Audit
Action Date:	9/9/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Release Tracking Number/Current Status:	3-0027349 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	12/26/2007
Category:	120 DY
Status Date:	08/11/2008
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type:	Oil and Hazardous Material

Click here to access the MA DEP site for this facility:

H41 **NO LOCATION AID** **LUST** **S105309320**
ESE **60-62 LOCKE ST** **INST CONTROL** **N/A**
1/8-1/4 **HAVERHILL, MA 01832** **RELEASE**
0.138 mi.
731 ft.

Site 7 of 7 in cluster H

Relative: Higher

Actual: 28 ft.

LUST:

Facility:

Release Tracking Number/Current Status:	3-0017252 / RAO
Status Date:	02/07/2003
Source Type:	UST
Release Town:	HAVERHILL
Notification Date:	09/04/1998
Category:	TWO HR
Associated ID:	3-0017254
Phase:	PHASE III
Response Action Outcome:	A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Oil Or Haz Material:	Oil

Location Type:	INDUSTRIAL
Source:	UST

NO LOCATION AID (Continued) **S105309320**

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	#6 FUEL OIL
Quantity:	20 gallons
Chemical:	FUEL OIL #6
Quantity:	20 gallons

Actions:

Action Type:	Activity and Use Limitation
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	1/27/2003
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	Release Abatement Measure
Action Status:	Completion Statement Received
Action Date:	1/3/2001
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	10/23/2001
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	10/9/1998
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	11/10/1998
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	11/3/1998
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	RLFA
Action Status:	FLDRUN
Action Date:	11/6/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been

NO LOCATION AID (Continued) **S105309320**

reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Status: Legal Notice Published
Action Date: 2/13/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 2/7/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 7/11/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 8/17/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 9/3/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 9/3/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 9/3/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RAO Not Required
Action Status: Linked to a Tier Classified Site
Action Date: 9/3/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

NO LOCATION AID (Continued) **S105309320**

been implemented.

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 9/3/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 9/4/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 9/4/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Facility:
Release Tracking Number/Current Status: 3-0017254 / RAONR
Status Date: 09/03/1999
Source Type: UST
Release Town: HAVERHILL
Notification Date: 09/04/1998
Category: 72 HR
Associated ID: 3-0017254
Phase: PHASE II
Response Action Outcome: -
Oil Or Haz Material: Oil

Location Type: INDUSTRIAL
Source: UST

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: FUEL OIL #6
Quantity: 107 parts per million
Chemical: #6 FUEL OIL
Quantity: 4100 parts per million

Actions:
Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 1/3/2001
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.

NO LOCATION AID (Continued) **S105309320**

Action Date: 10/19/1998
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 11/10/1998
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 11/3/1998
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 8/17/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 9/3/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 9/3/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 9/3/1999
Response Action Outcome: Not reported

Action Type: RAO Not Required
Action Status: Linked to a Tier Classified Site
Action Date: 9/3/1999
Response Action Outcome: Not reported

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 9/3/1999
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 9/4/1998
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 9/4/1998
Response Action Outcome: Not reported

INST CONTROL:
Release Tracking Number: 3-0017252
Action Type: AUL

NO LOCATION AID (Continued) **S105309320**

Action Stat: LEGNOT
Action Date: 02/13/2003
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release Tracking Number: 3-0017252
Action Type: AUL
Action Stat: RECPT
Action Date: 01/27/2003
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release:
Release Tracking Number/Current Status: 3-0017252 / RAO
Primary ID: 3-0017254
Official City: HAVERHILL
Notification: 09/04/1998
Category: TWO HR
Status Date: 02/07/2003
Phase: PHASE III
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status: 3-0017254 / RAONR
Primary ID: 3-0017254
Official City: HAVERHILL
Notification: 09/04/1998
Category: 72 HR
Status Date: 09/03/1999
Phase: PHASE II
Response Action Outcome: -
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

42
East
1/8-1/4
0.139 mi.
732 ft.

LOCKE STREET PARKING LOT **US BROWNFIELDS** **1016456892**
73-109 LOCKE STREET **FINDS** **N/A**
HAVERHILL, MA 01830 **ECHO**

Relative:
Higher

Actual:
37 ft.

US BROWNFIELDS:
Recipient name: Haverhill, City of
Grant type: Assessment
Property name: LOCKE STREET PARKING LOT
Property #: Block 60 Lots2 and 2-2
Parcel size: 1.08
Property Description: City-owned parking lot property. Site was formerly occupied by a gasoline filling station.

LOCKE STREET PARKING LOT (Continued) **1016456892**

Latitude:	42.7768702
Longitude:	-71.0850453
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983
ACRES property ID:	159421
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	2000
Assessment funding source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	EPA
Cleanup funding entity:	Not reported
Grant type:	H
Accomplishment type:	Phase I Environmental Assessment
Accomplishment count:	1
Cooperative agreement #:	97137401
Ownership entity:	Government
Current owner:	City of Haverhill
Did owner change:	N
Cleanup required:	Unknown
Video available:	No
Photo available:	No
Institutional controls required:	U
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported

LOCKE STREET PARKING LOT (Continued) **1016456892**

Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	1.08
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported

LOCKE STREET PARKING LOT (Continued) **1016456892**

Past Use: Multistory Not reported

FINDS:

Registry ID: 110056365268

Environmental Interest/Information System
US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES) is an federal online database for Brownfields Grantees to electronically submit data directly to EPA.

ECHO:

Envid:	1016456892
Registry ID:	110056365268
FIPS Code:	25009
EPA Region:	01
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Y
Latitude:	42.776741
Longitude:	-71.085025
Map Icon:	NONE-UNK-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	ENTRANCE POINT OF A FACILITY OR STATION
Accuracy Meters:	50
Derived Tribes:	Not reported
Derived Huc:	01070006
Derived WBD:	010700061401
Derived STCT FPS:	25009
Derived Zip:	01830
Derived CD113:	03
Derived CB2010:	250092601003011
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	Not reported
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	Not reported
Programs in SNC:	0
Curr Compliance Status:	Not reported
Curr SNC Flag:	N
3yr Compliance Status:	Not reported

LOCKE STREET PARKING LOT (Continued) **1016456892**

AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	Not reported
RCRA Permit Types:	Not reported
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	Not reported
RCRA Curr Compliance Status:	Not reported
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	Not reported
SDWA IDS:	Not reported

LOCKE STREET PARKING LOT (Continued) **1016456892**

SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110056365268
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

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43 **FMR TRANSFORMER AREA MAI-6/TRC-112** **SHWS** **S108962749**
ESE **50 LOCKE ST** **RELEASE** **N/A**
1/8-1/4 **HAVERHILL, MA 01830**
0.144 mi.
758 ft.

Relative:
Higher

Actual:
26 ft.

SHWS:

Release Tracking Number/Current Status:	3-0027350 / RAO
Release Town:	HAVERHILL
Notification Date:	12/26/2007
Category:	120 DY
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	08/11/2008
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Hazardous Material

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	BENZO[A]ANTHRACENE
Quantity:	332 milligrams per kilogram
Chemical:	ACENAPHTHENE
Quantity:	220 milligrams per kilogram
Chemical:	2-METHYLNAPHTHALENE

FMR TRANSFORMER AREA MAI-6/TRC-112 (Continued) **S108962749**

Quantity: 75.7 milligrams per kilogram
Chemical: PCBS
Quantity: 11.1 milligrams per kilogram

Actions:

Action Type: Release Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 1/15/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 1/23/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 1/8/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Fee Received - FMCRA Use Only
Action Date: 1/9/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 12/26/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 12/26/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 5/21/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 8/11/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Fee Received - FMCRA Use Only
Action Date: 8/15/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

FMR TRANSFORMER AREA MAI-6/TRC-112 (Continued) **S108962749**

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 9/8/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Release Tracking Number/Current Status: 3-0027350 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 12/26/2007
Category: 120 DY
Status Date: 08/11/2008
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Hazardous Material

Click here to access the MA DEP site for this facility:

I44
North
1/8-1/4
0.144 mi.
759 ft.

AC LANDSCAPING INC **HW GEN** **S112559980**
39 HALE ST **N/A**
HAVERHILL, MA 01830

Site 3 of 5 in cluster I

Relative:
Higher

Actual:
37 ft.

HW GEN:
EPA Id: MV9783735504
RCRA Generator Status: Not reported
State Generator Status: VQG-MA

I45
North
1/8-1/4
0.144 mi.
759 ft.

EDR Hist Auto **1015462477**
N/A

39 HALE ST
HAVERHILL, MA 01830

Site 4 of 5 in cluster I

Relative:
Higher

Actual:
37 ft.

EDR Historical Auto Stations:
Name: AUTO CONTROL
Year: 1999
Address: 39 HALE ST

Name: RICKS AUTO
Year: 2002
Address: 39 HALE ST

Name: RICKS AUTO
Year: 2003
Address: 39 HALE ST

Name: RICKS AUTO & NAPA
Year: 2004
Address: 39 HALE ST

(Continued) **1015462477**

Name: RICKS AUTO
Year: 2005
Address: 39 HALE ST

Name: RICKS AUTO
Year: 2006
Address: 39 HALE ST

Name: RICKS AUTO
Year: 2007
Address: 39 HALE ST

Name: RICKS AUTO
Year: 2008
Address: 39 HALE ST

I46
North
1/8-1/4
0.148 mi.
782 ft.

40 HALE ST
HAVERHILL, MA 01830

Site 5 of 5 in cluster I

EDR Hist Auto **1015467851**
N/A

Relative:
Higher

Actual:
35 ft.

EDR Historical Auto Stations:
Name: CENTRAL AUTO BODY
Year: 2006
Address: 40 HALE ST

Name: CENTRAL AUTO BODY
Year: 2007
Address: 40 HALE ST

J47
WNW
1/8-1/4
0.150 mi.
794 ft.

EXXON COMPANY USA
141 LAFAYETTE SQ
HAVERHILL, MA 01832

Site 1 of 14 in cluster J

RCRA NonGen / NLR **1004717956**
FINDS **MAD985288901**
ECHO

Relative:
Higher

Actual:
26 ft.

RCRA NonGen / NLR:
Date form received by agency: 05/17/2007
Facility name: EXXON CO USA 35308
Facility address: 141 LAFAYETTE SQ
HAVERHILL, MA 01830
EPA ID: MAD985288901
Mailing address: CORP-GP4-538
16945 NORTHCHASE DRIVE, ROOM 5
HOUSTON, TX 772100000
Contact: DALE VIATOR
Contact address: 16945 NORTHCHASE DRIVE, ROOM 5 CORP-GP4-538
HOUSTON, TX 770600000
Contact country: US
Contact telephone: (281) 654-8470
Contact email: DALE.VIATOR@EXXONMOBIL.COM
EPA Region: 01
Land type: Private
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

EXXON COMPANY USA (Continued) **1004717956**

Owner/Operator Summary:

Owner/operator name:	EXXONMOBIL OIL CORPORATION
Owner/operator address:	16945 NORTHCHASE DRIVE, ROOM 5 CORP-GP4-538 HOUSTON, TX 77060
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	06/30/1991
Owner/Op end date:	Not reported

Owner/operator name:	EXXON MOBIL
Owner/operator address:	16945 NORTHCHASE DRIVE, ROOM 5 CORP-GP4-538 HOUSTON, TX 77060
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	10/16/2004
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	02/27/1991
Site name:	EXXON CO USA 35308
Classification:	Not a generator, verified
. Waste code:	D001
. Waste name:	IGNITABLE WASTE
. Waste code:	D018
. Waste name:	BENZENE
Violation Status:	No violations found

Evaluation Action Summary:

Evaluation date:	05/03/2007
Evaluation:	FOCUSED COMPLIANCE INSPECTION
Area of violation:	Not reported

EXXON COMPANY USA (Continued) **1004717956**

Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110003491294

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MA-EPICS - Massachussetts Environmental Protection Integrated Computer System

ECHO:

Envid:	1004717956
Registry ID:	110003491294
FIPS Code:	25009
EPA Region:	01
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Y
Latitude:	42.77836
Longitude:	-71.09013
Map Icon:	RCRA-IC-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	CENTER OF A FACILITY OR STATION
Accuracy Meters:	30
Derived Tribes:	Not reported
Derived Huc:	01070006
Derived WBD:	Not reported
Derived STCT FPS:	25009
Derived Zip:	01832
Derived CD113:	03
Derived CB2010:	250092607001016
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	05/03/2007
Days Last Inspection:	3062
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	Not reported

EXXON COMPANY USA (Continued) **1004717956**

Last Penalty Amount:	Not reported
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	_____
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	MAD985288901
RCRA Permit Types:	Other
RCRA NAICS:	44711
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	3062
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported

EXXON COMPANY USA (Continued) **1004717956**

RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0
RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110003491294
Facility SIC Codes:	Not reported
Facility NAICS Codes:	44711
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	05/03/2007
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

J48 **HAVERHILL PETRO LLC** **HW GEN** **S113411347**
WNW **141 LAFAYETTE SQ** **N/A**
1/8-1/4 **HAVERHILL, MA 01832**
0.150 mi.
794 ft. **Site 2 of 14 in cluster J**

Relative:
Higher

Actual:
26 ft.

HW GEN:

EPA Id:	MV9783724165
RCRA Generator Status:	Not reported
State Generator Status:	SQG-MA

J49 **EDR Hist Auto** **1015222743**
WNW **141 LAFAYETTE SQ** **N/A**
1/8-1/4 **HAVERHILL, MA 01832**
0.150 mi.
794 ft. **Site 3 of 14 in cluster J**

Relative:
Higher

Actual:
26 ft.

EDR Historical Auto Stations:

Name:	L & R SERVICE INCORPORATED ROAD SERVICE GENERAL REPAIRS
Year:	1999
Address:	141 LAFAYETTE SQ

(Continued) **1015222743**

Name: L & R SERVICE INCORPORATED ROAD SERVICE GENERAL REPAIRS
Year: 2000
Address: 141 LAFAYETTE SQ

Name: HAVERHILL AUTO
Year: 2007
Address: 141 LAFAYETTE SQ

Name: HAVERHILL AUTO
Year: 2008
Address: 141 LAFAYETTE SQ

Name: HAVERHILL AUTO
Year: 2009
Address: 141 LAFAYETTE SQ

Name: HAVERHILL AUTO
Year: 2010
Address: 141 LAFAYETTE SQ

Name: HAVERHILL GAS & AUTO
Year: 2011
Address: 141 LAFAYETTE SQ

Name: HAVERHILL GAS & AUTO
Year: 2012
Address: 141 LAFAYETTE SQ

J50 WNW 1/8-1/4 0.150 mi. 794 ft. | **HAVERHILL AUTO SALES** | **LUST** | **U003000449**
141 LAFAYETTE SQ | **UST** | **N/A**
HAVERHILL, MA 01832 | **AST**
RELEASE
Site 4 of 14 in cluster J | **Financial Assurance**

Relative: Higher

Actual: 26 ft.

LUST:

Facility:
Release Tracking Number/Current Status: 3-0000882 / RAO
Status Date: 07/21/2009
Source Type: UST
Release Town: HAVERHILL
Notification Date: 01/15/1989
Category: NONE
Associated ID: Not reported
Phase: PHASE III
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material: Not reported

Location Type: GASSTATION
Source: UST

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: UNKNOWN

HAVERHILL AUTO SALES (Continued) **U003000449**

Quantity: Not reported

Actions:

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 1/10/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Valid Transition Site
Action Date: 1/15/1989
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 10/21/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 10/4/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 11/16/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 11/16/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Revised Statement or Transmittal Received
Action Date: 11/16/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Compliance and Enforcement Action
Action Status: Notice of Non-Compliance Issued
Action Date: 12/1/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Partial RAO for this RTN
Action Status: RAO Statement Received
Action Date: 12/20/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2

HAVERHILL AUTO SALES (Continued) **U003000449**

Action Status: Completion Statement Received
Action Date: 12/20/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TAG
Action Status: GRNTST
Action Date: 4/1/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 4/13/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Status: WAVREC
Action Date: 5/17/1993
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Revised Statement or Transmittal Received
Action Date: 6/12/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 6/25/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 6/29/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TAG
Action Status: GRNTEN
Action Date: 6/30/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 7/17/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 7/18/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

HAVERHILL AUTO SALES (Continued) **U003000449**

reduced to background.

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 7/18/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 7/21/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 7/26/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 9/15/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Status: WAVSIG
Action Date: 9/16/1993
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 9/21/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Status: WAVACC
Action Date: 9/22/1993
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 9/23/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2
Action Status: Notice of Delay in Meeting RA Deadline Received
Action Date: 9/30/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

HAVERHILL AUTO SALES (Continued) **U003000449**

UST:

Facility:

Facility ID:	5235
Owner Id:	10200
Owner:	HAVERHILL PETRO LLC
Owner Address:	141 LAFAYETTE SQ
Owner City,St,Zip:	HAVERHILL, MA 01830
Telephone:	(978) 372-4165
Description:	Gas Station
Fire Dept. ID:	9128
Date of Inspection:	04/17/2013

Tank ID:	1
Serial Number:	Not reported
Tank Status:	**Removed**
Status Date:	10/24/1994
Date Installed:	12/01/1977
Capacity:	4000
Contents:	Gasoline
Tank Type:	1 Wall
Tank Usage:	MV
Tank Material:	Reinforced
Tank Leak Detection:	Not reported
Pipe Material:	Reinforced
Pipe Container:	Pressure
Pipe Leak Detection:	Product Line Leak Detector
Above Ground:	No

Tank ID:	2
Serial Number:	Not reported
Tank Status:	**Removed**
Status Date:	10/24/1994
Date Installed:	01/01/1978
Capacity:	8000
Contents:	Gasoline
Tank Type:	1 Wall
Tank Usage:	MV
Tank Material:	Reinforced
Tank Leak Detection:	Not reported
Pipe Material:	Reinforced
Pipe Container:	1 Wall
Pipe Leak Detection:	Product Line Leak Detector
Above Ground:	No

Tank ID:	3
Serial Number:	Not reported
Tank Status:	**Removed**
Status Date:	10/24/1994
Date Installed:	12/01/1977
Capacity:	6000
Contents:	Gasoline
Tank Type:	1 Wall
Tank Usage:	MV

HAVERHILL AUTO SALES (Continued) **U003000449**

Tank Material:	Reinforced
Tank Leak Detection:	Not reported
Pipe Material:	Reinforced
Pipe Container:	Pressure
Pipe Leak Detection:	Product Line Leak Detector
Above Ground:	No

Tank ID:	4
Serial Number:	Not reported
Tank Status:	**In Use**
Status Date:	Not reported
Date Installed:	10/27/1994
Capacity:	10000
Contents:	Gasoline
Tank Type:	2 Walls
Tank Usage:	MV
Tank Material:	Reinforced
Tank Leak Detection:	Not reported
Pipe Material:	Reinforced
Pipe Container:	Not reported
Pipe Leak Detection:	Not reported
Above Ground:	No

Tank ID:	5
Serial Number:	Not reported
Tank Status:	**In Use**
Status Date:	Not reported
Date Installed:	10/27/1994
Capacity:	8000
Contents:	Gasoline
Tank Type:	2 Walls
Tank Usage:	MV
Tank Material:	Reinforced
Tank Leak Detection:	Not reported
Pipe Material:	Reinforced
Pipe Container:	Not reported
Pipe Leak Detection:	Not reported
Above Ground:	No

Tank ID:	6
Serial Number:	Not reported
Tank Status:	**In Use**
Status Date:	Not reported
Date Installed:	01/01/1978
Capacity:	1000
Contents:	Waste Oil
Tank Type:	1 Wall
Tank Usage:	Not reported
Tank Material:	Reinforced
Tank Leak Detection:	Not reported
Pipe Material:	None
Pipe Container:	Not reported
Pipe Leak Detection:	Not reported
Above Ground:	No

HAVERHILL AUTO SALES (Continued) **U003000449**

AST:

Facility ID:	5235
Owner Id:	10200
Owner:	HAVERHILL PETRO LLC
Owner Address:	141 LAFAYETTE SQ
Owner City,St,Zip:	HAVERHILL, MA 01830
Telephone:	(978) 372-4165
Description:	Gas Station
Fire Dept. ID:	9128
Date of Inspection:	2/26/2007
Inspector:	Andrew J Murphy
Overfill Prevention:	Not reported
Spill Prevention:	Not reported

Tank Info:

Tank ID:	7
Serial Number:	Not reported
Tank Status:	In Use
Capacity:	275
Contents:	Waste Oil
Tank Use:	Not reported
Tank Material:	Not reported
Tank Construction:	Not reported
Tank Leak Detection:	Not reported
Pipe Material:	Not reported
Pipe Construction:	Not reported
Pipe Leak Detection:	Not reported
Aboveground:	Yes

Release:

Release Tracking Number/Current Status:	3-0000882 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	01/15/1989
Category:	NONE
Status Date:	07/21/2009
Phase:	PHASE III
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type:	Not reported

Click here to access the MA DEP site for this facility:

MA Financial Assurance 2:

Facility Id:	5235
Description:	Gas Station
Work Phone:	(978) 372-4165

J51 WNW 1/8-1/4 0.158 mi. 834 ft. | **CVS PHARMACY 2596**
150 LAFAYETTE SQ
HAVERHILL, MA 01832 | **HW GEN** | **S113409329**
N/A

Site 5 of 14 in cluster J

Relative: Higher

Actual: 27 ft.

HW GEN:

EPA Id:	MAC300018975
RCRA Generator Status:	LQG
State Generator Status:	Not reported

J52 WNW 1/8-1/4 0.158 mi. 834 ft. | **MARBLE MOTOR CO**
150 LAFAYETTE SQ
HAVERHILL, MA 01831 | **RCRA NonGen / NLR**
FINDS
ECHO | **1004715463**
MAD019394162

Site 6 of 14 in cluster J

Relative: Higher

Actual: 27 ft.

RCRA NonGen / NLR:

Date form received by agency:	02/01/2008
Facility name:	MARBLE MOTOR CO
Facility address:	150 LAFAYETTE SQ HAVERHILL, MA 01831
EPA ID:	MAD019394162
Mailing address:	PO BOX 930 HAVERHILL, MA 018310000
Contact:	RICHARD CIOFOLO
Contact address:	PO BOX 930 HAVERHILL, MA 018310000
Contact country:	Not reported
Contact telephone:	(508) 373-3800
Contact email:	Not reported
EPA Region:	01
Land type:	Private
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	MARBLE MOTOR CO
Owner/operator address:	PO BOX 930 HAVERHILL, MA 01831
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/2000
Owner/Op end date:	Not reported

Owner/operator name:	MARBLE MOTOR CO
Owner/operator address:	PO BOX 930 HAVERHILL, MA 01831
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	12/08/1991
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No

MARBLE MOTOR CO (Continued) **1004715463**

Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 07/11/1985
Site name: MARBLE MOTOR CO
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 02/01/2008
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110003426221

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MA-EPICS - Massachussetts Environmental Protection Integrated Computer System

ECHO:
Envid: 1004715463
Registry ID: 110003426221
FIPS Code: 25009
EPA Region: 01
Indian Country Flag: N
Federal Flag: Not reported
US Mexico Border Flag: Not reported

MARBLE MOTOR CO (Continued) **1004715463**

Chesapeake Bay Flag:	Not reported
NAA Flag:	Y
Latitude:	42.77803
Longitude:	-71.09073
Map Icon:	RCRA-IC-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	CENTER OF A FACILITY OR STATION
Accuracy Meters:	30
Derived Tribes:	Not reported
Derived Huc:	01070006
Derived WBD:	Not reported
Derived STCT FPS:	25009
Derived Zip:	01832
Derived CD113:	03
Derived CB2010:	250092608001000
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	02/01/2008
Days Last Inspection:	2788
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	_____
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N

MARBLE MOTOR CO (Continued) **1004715463**

CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	MAD019394162
RCRA Permit Types:	Other
RCRA NAICS:	44111
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	2788
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0
RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110003426221
Facility SIC Codes:	Not reported
Facility NAICS Codes:	44111
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	02/01/2008

MARBLE MOTOR CO (Continued) **1004715463**

Facility Date Last Formal ACT EPA: Not reported
Facility Date Last Formal ACT ST: Not reported
Facility Date Last Inforamal ACT EPA: Not reported
Facility Date Last Informal ACT ST: Not reported
Facility Federal Agency: Not reported
TRI Reporter: Not reported
Facility IMP Water Flag: Not reported

J53 WNW 1/8-1/4 0.158 mi. 834 ft. | **AUTOMOBILE DEALERSHIP** | **SHWS** | **S105596517**
150 LAFAYETTE SQ | **LUST** | **N/A**
HAVERHILL, MA 01830 | **RELEASE**

Site 7 of 14 in cluster J

Relative: Higher

Actual: 27 ft.

SHWS:
Release Tracking Number/Current Status: 3-0025415 / RAO
Release Town: HAVERHILL
Notification Date: 11/18/2005
Category: TWO HR
Associated ID: Not reported
Current Status: **Response Action Outcome**
Status Date: 03/20/2006
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material: Not reported
Location Type: INDUSTRIAL
Location Type: COMMERCIAL
Source: DRUMS

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: 90 WT GEAR OIL
Quantity: 20 gallons
Chemical: GEAR OIL
Quantity: 20 gallons

Actions:
Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 1/18/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 1/20/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 11/18/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

AUTOMOBILE DEALERSHIP (Continued) **S105596517**

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	11/18/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	11/18/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Oral Approval of a Modified Plan
Action Date:	11/21/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	11/23/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	3/20/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	3/20/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Release Tracking Number/Current Status:	3-0026906 / RAO
Release Town:	HAVERHILL
Notification Date:	06/21/2007
Category:	120 DY
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	07/16/2007
Phase:	Not reported
Response Action Outcome:	B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.
Oil Or Haz Material:	Oil

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	C11 THRU C22 AROMATIC HYDROCARBONS
Quantity:	1800 milligrams per kilogram
Chemical:	C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity:	5100 milligrams per kilogram

AUTOMOBILE DEALERSHIP (Continued) **S105596517**

Actions:

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	6/21/2007
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	6/25/2007
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	7/16/2007
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

Release Tracking Number/Current Status:	3-0022086 / RAONR
Release Town:	HAVERHILL
Notification Date:	09/09/2002
Category:	72 HR
Associated ID:	Not reported
Current Status:	**Response Action Outcome Not Required**
Status Date:	08/06/2003
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Oil
Location Type:	COMMERCIAL
Source:	UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	GASOLINE
Quantity:	2 inches
Chemical:	NAPL
Quantity:	2 inches

Actions:

Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	10/18/2002
Response Action Outcome:	Not reported

Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	12/17/2002
Response Action Outcome:	Not reported

Action Type:	Immediate Response Action
Action Status:	Written Plan Received
Action Date:	12/17/2002
Response Action Outcome:	Not reported

AUTOMOBILE DEALERSHIP (Continued) **S105596517**

Action Type:	RAO Not Required
Action Status:	Linked to a Tier Classified Site
Action Date:	8/6/2003
Response Action Outcome:	Not reported

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	9/30/2002
Response Action Outcome:	Not reported

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	9/9/2002
Response Action Outcome:	Not reported

Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	9/9/2002
Response Action Outcome:	Not reported

LUST:

Facility:

Release Tracking Number/Current Status:	3-0026428 / RAO
Status Date:	07/02/2007
Source Type:	UST
Release Town:	HAVERHILL
Notification Date:	11/29/2006
Category:	72 HR
Associated ID:	Not reported
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Oil

Location Type:	COMMERCIAL
Source:	UST

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	GASOLINE
Quantity:	120 parts per million

Actions:

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	1/24/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	1/25/2007

AUTOMOBILE DEALERSHIP (Continued) **S105596517**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 1/8/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 11/29/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 11/29/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 11/29/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 2/2/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 7/2/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Fee Received - FMCRA Use Only
Action Date: 7/3/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Facility:
Release Tracking Number/Current Status: 3-0026429 / RAO
Status Date: 07/02/2007
Source Type: UST
Release Town: HAVERHILL
Notification Date: 11/29/2006
Category: 72 HR
Associated ID: Not reported
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.

AUTOMOBILE DEALERSHIP (Continued) **S105596517**

Oil Or Haz Material: Oil

Location Type: COMMERCIAL
Source: UST

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: FUEL OIL
Quantity: 105 parts per million

Actions:
Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 1/24/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 1/25/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 11/29/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 11/29/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 11/29/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 2/2/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 7/2/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO

AUTOMOBILE DEALERSHIP (Continued) **S105596517**

Action Status:	Fee Received - FMCRA Use Only
Action Date:	7/3/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Facility:

Release Tracking Number/Current Status:	3-0027301 / RAO
Status Date:	10/02/2008
Source Type:	UST
Release Town:	HAVERHILL
Notification Date:	12/03/2007
Category:	72 HR
Associated ID:	Not reported
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Not reported
Location Type:	COMMERCIAL
Source:	UST

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	GASOLINE AND FUEL OIL MIXTURE
Quantity:	1.32 inches
Chemical:	NAPL
Quantity:	1.2 inches

Actions:

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	1/23/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	1/3/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	RMRFIN
Action Date:	10/2/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	10/2/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

AUTOMOBILE DEALERSHIP (Continued) **S105596517**

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 10/2/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Fee Received - FMCRA Use Only
Action Date: 10/3/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 12/12/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 12/21/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 12/21/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 12/3/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 12/3/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 4/15/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 4/28/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 4/29/2009

AUTOMOBILE DEALERSHIP (Continued) **S105596517**

Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	4/8/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	RMRINI
Action Date:	4/8/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Abatement Measure
Action Status:	Level I - Technical Screen Audit
Action Date:	5/1/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	8/27/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Facility:

Release Tracking Number/Current Status:	3-0027305 / RAO
Status Date:	10/02/2008
Source Type:	UST
Release Town:	HAVERHILL
Notification Date:	12/03/2007
Category:	72 HR
Associated ID:	Not reported
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Not reported
Location Type:	COMMERCIAL
Source:	UST

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	GASOLINE AND FUEL OIL MIXTURE
Quantity:	1.32 inches
Chemical:	NAPL
Quantity:	1.32 inches

Actions:

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.

AUTOMOBILE DEALERSHIP (Continued) **S105596517**

Action Date: 1/23/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 1/3/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 10/2/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 10/2/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: RMRFIN
Action Date: 10/2/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 10/28/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Fee Received - FMCRA Use Only
Action Date: 10/3/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 12/12/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 12/21/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 12/21/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

AUTOMOBILE DEALERSHIP (Continued) **S105596517**

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 12/3/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 12/3/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 2/7/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 3/20/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 4/15/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 4/28/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: RMRINI
Action Date: 4/8/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 4/8/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 5/1/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 8/27/2008

AUTOMOBILE DEALERSHIP (Continued) **S105596517**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Facility:

Release Tracking Number/Current Status:	3-0017247 / RAO
Status Date:	10/18/2002
Source Type:	UST
Release Town:	HAVERHILL
Notification Date:	09/02/1998
Category:	72 HR
Associated ID:	Not reported
Phase:	PHASE II
Response Action Outcome:	B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.
Oil Or Haz Material:	Oil
Location Type:	COMMERCIAL
Source:	UST

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	#2 FUEL OIL
Quantity:	560 parts per million
Chemical:	FUEL OIL #2
Quantity:	560 parts per million

Actions:

Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	10/18/2002
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	10/18/2002
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	10/26/1998
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	10/9/1998
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.
Action Type:	Immediate Response Action
Action Status:	Written Plan Received

AUTOMOBILE DEALERSHIP (Continued) **S105596517**

Action Date: 2/17/1999
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response Action
Action Status: Written Approval of Plan
Action Date: 3/22/1999
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 6/22/1999
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Phase 2
Action Status: Notice of Delay in Meeting RA Deadline Received
Action Date: 8/29/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Phase 3
Action Status: Notice of Delay in Meeting RA Deadline Received
Action Date: 8/29/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 9/2/1998
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 9/2/1998
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 9/9/1999
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 9/9/1999
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 9/9/1999
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

AUTOMOBILE DEALERSHIP (Continued) **S105596517**

Facility:

Release Tracking Number/Current Status:	3-0017249 / RAO
Status Date:	08/06/2003
Source Type:	UST
Release Town:	HAVERHILL
Notification Date:	09/03/1998
Category:	72 HR
Associated ID:	Not reported
Phase:	PHASE II
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Oil
Location Type:	COMMERCIAL
Source:	UST

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	GASOLINE
Quantity:	1000 parts per million
Chemical:	WASTE OIL
Quantity:	1000 parts per million
Chemical:	#2 FUEL OIL
Quantity:	1000 parts per million
Chemical:	FUEL OIL #2
Quantity:	1000 parts per million

Actions:

Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	10/26/1998
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	10/9/1998
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	12/17/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Written Plan Received
Action Date:	2/17/1999
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received

AUTOMOBILE DEALERSHIP (Continued) **S105596517**

Action Date: 6/22/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 3
Action Status: Notice of Delay in Meeting RA Deadline Received
Action Date: 8/29/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2
Action Status: Notice of Delay in Meeting RA Deadline Received
Action Date: 8/29/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 8/6/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 9/3/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 9/3/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 9/9/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 9/9/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 9/9/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Facility:
Release Tracking Number/Current Status: 3-0021159 / RAO
Status Date: 10/18/2002
Source Type: UST

AUTOMOBILE DEALERSHIP (Continued) **S105596517**

Release Town:	HAVERHILL
Notification Date:	10/16/2001
Category:	72 HR
Associated ID:	Not reported
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Oil
Location Type:	COMMERCIAL
Source:	UST

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	GASOLINE
Quantity:	104 parts per million

Actions:

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	10/16/2001
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	10/16/2001
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	10/18/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	10/18/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	11/8/2001
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Written Plan Received
Action Date:	12/17/2001
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

AUTOMOBILE DEALERSHIP (Continued) **S105596517**

Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	12/17/2001
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	12/17/2001
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Release Tracking Number/Current Status:	3-0017247 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	09/02/1998
Category:	72 HR
Status Date:	10/18/2002
Phase:	PHASE II
Response Action Outcome:	B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0017249 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	09/03/1998
Category:	72 HR
Status Date:	08/06/2003
Phase:	PHASE II
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0021159 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	10/16/2001
Category:	72 HR
Status Date:	10/18/2002
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status: 3-0022086 / RAONR

AUTOMOBILE DEALERSHIP (Continued) **S105596517**

Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	09/09/2002
Category:	72 HR
Status Date:	08/06/2003
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0025415 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	11/18/2005
Category:	TWO HR
Status Date:	03/20/2006
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type:	Not reported

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0026428 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	11/29/2006
Category:	72 HR
Status Date:	07/02/2007
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0026429 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	11/29/2006
Category:	72 HR
Status Date:	07/02/2007
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0026906 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL

AUTOMOBILE DEALERSHIP (Continued) **S105596517**

Notification:	06/21/2007
Category:	120 DY
Status Date:	07/16/2007
Phase:	Not reported
Response Action Outcome:	B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0027301 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	12/03/2007
Category:	72 HR
Status Date:	10/02/2008
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type:	Not reported

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0027305 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	12/03/2007
Category:	72 HR
Status Date:	10/02/2008
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type:	Not reported

Click here to access the MA DEP site for this facility:

J54 **CVS PHARMACY 2596** **RCRA-LQG** **1014953966**
WNW **150 LAFAYETTE SQ** **MAC300018975**
1/8-1/4 **HAVERHILL, MA 01832**
0.158 mi.
834 ft. **Site 8 of 14 in cluster J**

Relative:
Higher

Actual:
27 ft.

RCRA-LQG:

Date form received by agency:	11/07/2014
Facility name:	CVS PHARMACY 2596
Facility address:	150 LAFAYETTE SQ HAVERHILL, MA 01832
EPA ID:	MAC300018975
Mailing address:	1 CVS DR WOONSOCKET, RI 028950000
Contact:	WENDY BRANT
Contact address:	1 CVS DR WOONSOCKET, RI 028950000
Contact country:	US
Contact telephone:	(401) 701-1500

CVS PHARMACY 2596 (Continued) **1014953966**

Contact email: WENDY.BRANT@CVSCAREMARK.COM
EPA Region: 01
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: CVS PHARMACY INC
Owner/operator address: 1 CVS DR
WOONSOCKET, RI 02895
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 09/27/2008
Owner/Op end date: Not reported

Owner/operator name: QUADRANT HAVERHILL REAL ESTATE LLC
Owner/operator address: 1 CVS DR
WOONSOCKET, RI 02895
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 05/05/2008
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE WASTE

CVS PHARMACY 2596 (Continued) **1014953966**

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D011
. Waste name: SILVER

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P042
. Waste name: 1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)- (OR) EPINEPHRINE

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

. Waste code: P081
. Waste name: 1,2,3-PROPANETRIOL, TRINITRATE (R) (OR) NITROGLYCERINE (R)

Historical Generators:
Date form received by agency: 06/01/2014
Site name: CVS PHARMACY 2596
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

CVS PHARMACY 2596 (Continued) **1014953966**

. Waste code: D016
. Waste name: 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)

. Waste code: D018
. Waste name: BENZENE

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: D026
. Waste name: CRESOL

. Waste code: D027
. Waste name: 1,4-DICHLOROBENZENE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P012
. Waste name: ARSENIC OXIDE AS2O3 (OR) ARSENIC TRIOXIDE

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

. Waste code: P081
. Waste name: 1,2,3-PROPANETRIOL, TRINITRATE (R) (OR) NITROGLYCERINE (R)

. Waste code: P188
. Waste name: BENZOIC ACID, 2-HYDROXY-, COMPD. WITH (3AS-CIS)-1,2,3,3A,8,8A-HEXAHYDRO-1,3A,8-TRIMETHYLPYRROLO[2,3-B]INDOL--YL METHYLCARBAMATE ESTER (1:1) (OR) PHYSOSTIGMINE SALICYLATE

. Waste code: U002
. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

. Waste code: U010
. Waste name: AZIRINO [2',3':3,4]PYRROLO[1,2-A]INDOLE-4,7-DIONE, 6-AMINO-8-[[(AMINOCARBONYL)OXY]METHYL]-1,1A,2,8,8A,8B-HEXAHYDRO-8A-MET OXY-5-METHYL-, [1AS-(1AALPHA, 8BETA, 8AALPHA, 8BALPHA)]- (OR) MITOMYCIN C

. Waste code: U031
. Waste name: 1-BUTANOL (I) (OR) N-BUTYL ALCOHOL (I)

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO- (OR) CHLORAL

. Waste code: U035

CVS PHARMACY 2596 (Continued) **1014953966**

. Waste name: BENZENEBUTANOIC ACID, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) CHLORAMBUCIL

. Waste code: U044
. Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-

. Waste code: U058
. Waste name: 2H-1,3,2-OXAZAPHOSPHORIN-2-AMINE, N,N-BIS(2-CHLOROETHYL)TETRAHYDRO-, 2-OXIDE (OR) CYCLOPHOSPHAMIDE

. Waste code: U059
. Waste name: 5,12-NAPHTHACENEDIONE, 8-ACETYL-10-[(3-AMINO-2,3,6-TRIDEOXY)-ALPHA-L-LYXO-HEXOPYRANOSYL)OXY]-,8,9,10-TETRAHYDRO-6,8,11-TRIHYDROXY-1-METHOXY-, (8S-CIS)- (OR) DAUNOMYCIN

. Waste code: U070
. Waste name: BENZENE, 1,2-DICHLORO- (OR) O-DICHLOROBENZENE

. Waste code: U072
. Waste name: BENZENE, 1,4-DICHLORO- (OR) P-DICHLOROBENZENE

. Waste code: U089
. Waste name: DIETHYLSTILBESTEROL (OR) PHENOL, 4,4'-(1,2-DIETHYL-1,2-ETHENEDIYL)BIS, (E)-

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U129
. Waste name: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA, 2ALPHA, 3BETA, 4ALPHA, 5ALPHA, 6BETA)- (OR) LINDANE

. Waste code: U132
. Waste name: HEXACHLOROPHENE (OR) PHENOL, 2,2'-METHYLENEBIS[3,4,6-TRICHLORO-

. Waste code: U150
. Waste name: L-PHENYLALANINE, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) MELPHALAN

. Waste code: U151
. Waste name: MERCURY

. Waste code: U154
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

. Waste code: U165
. Waste name: NAPHTHALENE

. Waste code: U188
. Waste name: PHENOL

. Waste code: U200
. Waste name: RESERPINE (OR) YOHIMBAN-16-CARBOXYLIC ACID, 11,17-DIMETHOXY-18-[(3,4,5-TRIMETHOXYBENZOYL)OXY]-, METHYL ESTER, (3BETA, 16BETA, 17ALPHA, 18BETA, 20ALPHA)-

. Waste code: U201
. Waste name: 1,3-BENZENEDIOL (OR) RESORCINOL

CVS PHARMACY 2596 (Continued) **1014953966**

. Waste code: U204
. Waste name: SELENIOUS ACID (OR) SELENIUM DIOXIDE

. Waste code: U205
. Waste name: SELENIUM SULFIDE (OR) SELENIUM SULFIDE SES2 (R,T)

. Waste code: U206
. Waste name: D-GLUCOSE, 2-DEOXY-2-[[(METHYLNITROSOAMINO)-CARBONYL]AMINO]- (OR) GLUCOPYRANOSE, 2-DEOXY-2-(3-METHYL-3-NITROSOUREIDO)-,D- (OR) STREPTOZOTOCIN

. Waste code: U210
. Waste name: ETHENE, TETRACHLORO- (OR) TETRACHLOROETHYLENE

. Waste code: U279
. Waste name: CARBARYL (OR) 1-NAPHTHALENOL, METHYLCARBAMATE

. Waste code: U411
. Waste name: PHENOL, 2-(1-METHYLETHOXY)-, METHYLCARBAMATE (OR) PROPOXUR

Date form received by agency: 03/30/2012
Site name: CVS PHARMACY 2596
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D011
. Waste name: SILVER

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P042
. Waste name: 1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)- (OR) EPINEPHRINE

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

. Waste code: P081
. Waste name: 1,2,3-PROPANETRIOL, TRINITRATE (R) (OR) NITROGLYCERINE (R)

Violation Status: No violations found

J55 **EDR Hist Auto** **1015236695**
WNW **150 LAFAYETTE SQ** **N/A**
1/8-1/4 **HAVERHILL, MA 01832**
0.158 mi.
834 ft. **Site 9 of 14 in cluster J**

Relative:
Higher

Actual:
27 ft.

EDR Historical Auto Stations:

Name:	MARBLE CADILLAC OLDSMOBILE
Year:	1999
Address:	150 LAFAYETTE SQ
Name:	DIAMOND AUTO WORKS INCORPORATED
Year:	2000
Address:	150 LAFAYETTE SQ
Name:	DIAMOND AUTO WORKS INC
Year:	2001
Address:	150 LAFAYETTE SQ
Name:	DIAMOND AUTO WORKS INC
Year:	2002
Address:	150 LAFAYETTE SQ
Name:	DIAMOND AUTO WORKS INC
Year:	2003
Address:	150 LAFAYETTE SQ
Name:	DIAMOND AUTO WORKS INC
Year:	2004
Address:	150 LAFAYETTE SQ
Name:	DIAMOND AUTO WORKS INC
Year:	2005
Address:	150 LAFAYETTE SQ
Name:	DIAMOND AUTO WORKS INC
Year:	2006
Address:	150 LAFAYETTE SQ

J56 **MARBLE MOTOR CO** **UST** **U003832491**
WNW **152 LAFAYETTE SQ** **Financial Assurance** **N/A**
1/8-1/4 **HAVERHILL, MA 01830**
0.158 mi.
835 ft. **Site 10 of 14 in cluster J**

Relative:
Higher

Actual:
27 ft.

UST:

Facility:

Facility ID:	22130
Owner Id:	9270
Owner:	MARBLE MOTOR CO
Owner Address:	144-150 LAFAYETTE SQ
Owner City,St,Zip:	HAVERHILL, MA 01830
Telephone:	Not reported
Description:	Vehicle Dealer
Fire Dept. ID:	9128
Date of Inspection:	Not reported
Tank ID:	1

MARBLE MOTOR CO (Continued) **U003832491**

Serial Number:	Not reported
Tank Status:	**Removed**
Status Date:	10/01/2001
Date Installed:	Not reported
Capacity:	1000
Contents:	Gasoline
Tank Type:	Not reported
Tank Usage:	Not reported
Tank Material:	Not reported
Tank Leak Detection:	Not reported
Pipe Material:	Not reported
Pipe Container:	Not reported
Pipe Leak Detection:	Not reported
Above Ground:	No

Tank ID:	2
Serial Number:	Not reported
Tank Status:	**Removed**
Status Date:	10/01/2001
Date Installed:	Not reported
Capacity:	1000
Contents:	Gasoline
Tank Type:	Not reported
Tank Usage:	Not reported
Tank Material:	Not reported
Tank Leak Detection:	Not reported
Pipe Material:	Not reported
Pipe Container:	Not reported
Pipe Leak Detection:	Not reported
Above Ground:	No

Tank ID:	3
Serial Number:	Not reported
Tank Status:	**Removed**
Status Date:	10/01/2001
Date Installed:	Not reported
Capacity:	1000
Contents:	Gasoline
Tank Type:	Not reported
Tank Usage:	Not reported
Tank Material:	Not reported
Tank Leak Detection:	Not reported
Pipe Material:	Not reported
Pipe Container:	Not reported
Pipe Leak Detection:	Not reported
Above Ground:	No

MA Financial Assurance 2:

Facility Id:	22130
Description:	Vehicle Dealer
Work Phone:	Not reported

57 NNW 1/8-1/4 0.159 mi. 842 ft. | **USM CORP**
32 STEVENS ST
HAVERHILL, MA 01830 | **RCRA NonGen / NLR**
US AIRS | **1000384073**
MAD112949920

Relative: Higher

Actual: 24 ft.

RCRA NonGen / NLR:

Date form received by agency:	06/28/2013
Facility name:	USM CORP
Facility address:	32 STEVENS ST HAVERHILL, MA 01830
EPA ID:	MAD112949920
Contact:	JAMES STANDLE
Contact address:	32 STEVENS ST HAVERHILL, MA 018300000
Contact country:	US
Contact telephone:	9783740303X274
Contact email:	Not reported
EPA Region:	01
Land type:	Private
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	KF MANUFACTURING LLC
Owner/operator address:	32 STEVENS ST HAVERHILL, MA 01830
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	08/25/2005
Owner/Op end date:	Not reported

Owner/operator name:	HUDSON INDUSTRIAL PARK REALTY TRUST
Owner/operator address:	32 STEVENS ST HAVERHILL, MA 01830
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	08/25/2005
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No

USM CORP (Continued) **1000384073**

Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 08/30/2005
Site name: USM CORP
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: MA01
. Waste name: WASTE OIL

. Waste code: MA97
. Waste name: CLASS A REGULATED RECYCLABLE MATERIAL (INCLUDING BUT NOT LIMITED TO SPECIFICATION USED OIL FUEL) THAT IS SHIPPED USING A HAZARDOUS WASTE MANIFEST

. Waste code: MA98
. Waste name: OFF SPECIFICATION USED OIL FUEL THAT IS SHIPPED USING A HW MANIFEST

Date form received by agency: 01/21/1985
Site name: HUDSON MACHINERY CORP
Classification: Small Quantity Generator

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED

USM CORP (Continued) **1000384073**

IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Facility Has Received Notices of Violations:

Regulation violated:	Not reported
Area of violation:	Generators - Manifest
Date violation determined:	06/21/2007
Date achieved compliance:	08/23/2007
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	07/09/2007
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Regulation violated:	Not reported
Area of violation:	State Statute or Regulation
Date violation determined:	06/21/2007
Date achieved compliance:	08/23/2007
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	07/09/2007
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Regulation violated:	Not reported
Area of violation:	Generators - General
Date violation determined:	06/21/2007
Date achieved compliance:	08/23/2007
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	07/09/2007
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Regulation violated:	Not reported
Area of violation:	Generators - Pre-transport
Date violation determined:	06/21/2007
Date achieved compliance:	08/23/2007
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	07/09/2007
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported

USM CORP (Continued) **1000384073**

Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 08/23/2007
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/21/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: 08/23/2007
Evaluation lead agency: State

Evaluation date: 06/21/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/23/2007
Evaluation lead agency: State

Evaluation date: 06/21/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 08/23/2007
Evaluation lead agency: State

Evaluation date: 06/21/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Manifest
Date achieved compliance: 08/23/2007
Evaluation lead agency: State

US AIRS MINOR:
Envid: 1000384073
Region Code: 01
Programmatic ID: AIR MA0000002512100370
Facility Registry ID: 110024312322
D and B Number: Not reported
Primary SIC Code: 3559
NAICS Code: 333298
Default Air Classification Code: MIN
Facility Type of Ownership Code: POF
Air CMS Category Code: Not reported
HPV Status: Not reported

US AIRS MINOR:
Region Code: 01
Programmatic ID: AIR MA0000002512100370
Facility Registry ID: 110024312322
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1991-02-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

USM CORP (Continued) **1000384073**

Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002512100370
Facility Registry ID: 110024312322
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1991-02-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002512100370
Facility Registry ID: 110024312322
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1992-01-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002512100370
Facility Registry ID: 110024312322
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1994-05-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002512100370
Facility Registry ID: 110024312322
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1996-03-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002512100370
Facility Registry ID: 110024312322
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1998-02-23 00:00:00

USM CORP (Continued) **1000384073**

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002512100370
Facility Registry ID: 110024312322
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1999-02-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002512100370
Facility Registry ID: 110024312322
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2000-04-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002512100370
Facility Registry ID: 110024312322
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-04-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002512100370
Facility Registry ID: 110024312322
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-06-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 01
Programmatic ID: AIR MA0000002512100370
Facility Registry ID: 110024312322
Air Operating Status Code: OPR

USM CORP (Continued) **1000384073**

Default Air Classification Code:	MIN
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1994-04-28 00:00:00
Activity Status Date:	1994-04-28 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Informal
Activity Status:	Achieved

Region Code:	01
Programmatic ID:	AIR MA0000002512100370
Facility Registry ID:	110024312322
Air Operating Status Code:	OPR
Default Air Classification Code:	MIN
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2011-11-09 00:00:00
Activity Status Date:	2011-11-09 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Informal
Activity Status:	Achieved

J58 **LAFAYETTE ST** **SHWS** **S104516944**
WNW **BROADWAY AND HILLDALE AVE** **RELEASE** **N/A**
1/8-1/4 **HAVERHILL, MA**
0.167 mi.
881 ft. **Site 11 of 14 in cluster J**

Relative:
Higher

Actual:
28 ft.

SHWS:

Release Tracking Number/Current Status:	3-0011347 / URAM
Release Town:	HAVERHILL
Notification Date:	07/22/1994
Category:	120 DY
Associated ID:	Not reported
Current Status:	**URAM**
Status Date:	07/22/1994
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Oil
Location Type:	ROADWAY
Source:	UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	GASOLINE
Quantity:	Not reported

Actions:

Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	6/19/1995
Response Action Outcome:	Not reported

Action Type:	RLFA
Action Status:	FOLFLD
Action Date:	7/22/1994
Response Action Outcome:	Not reported

LAFAYETTE ST (Continued) **S104516944**

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	7/22/1994
Response Action Outcome:	Not reported

Action Type:	Utility-related Abatement Measure
Action Status:	Notice of Intent to Conduct a URAM
Action Date:	7/22/1994
Response Action Outcome:	Not reported

Release:

Release Tracking Number/Current Status:	3-0011347 / URAM
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	07/22/1994
Category:	120 DY
Status Date:	07/22/1994
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

J59
WNW
1/8-1/4
0.172 mi.
907 ft.

Relative:
Higher

Actual:
28 ft.

HAVERHILL CITGO **UST** **U003000416**
2 HILLDALE AVE **Financial Assurance** **N/A**
HAVERHILL, MA 01832

Site 12 of 14 in cluster J

UST:

Facility:

Facility ID:	5223
Owner Id:	20479
Owner:	DRAKE PETROLEUM COMPANY INC
Owner Address:	221 QUINEBAUG RD RTE 131
Owner City,St,Zip:	NORTH GROSVENORDALE, CT 06255
Telephone:	(401) 781-9900
Description:	Gas Station/Conv Store
Fire Dept. ID:	9128
Date of Inspection:	11/06/2012

Tank ID:	1
Serial Number:	Not reported
Tank Status:	**In Use**
Status Date:	Not reported
Date Installed:	07/20/1986
Capacity:	6000
Contents:	Gasoline
Tank Type:	1 Wall
Tank Usage:	MV
Tank Material:	Composite
Tank Leak Detection:	Approved In-Tank Monitor
Pipe Material:	Reinforced
Pipe Container:	2 Walls

HAVERHILL CITGO (Continued) **U003000416**

Pipe Leak Detection: Product Line Leak Detector
Above Ground: No

Tank ID: 2
Serial Number: 189067
Tank Status: In Use
Status Date: Not reported
Date Installed: 05/17/1991
Capacity: 8000
Contents: Gasoline
Tank Type: 2 Walls
Tank Usage: MV
Tank Material: Cathodic
Tank Leak Detection: Approved In-Tank Monitor
Pipe Material: Reinforced
Pipe Container: 2 Walls
Pipe Leak Detection: Product Line Leak Detector
Above Ground: No

MA Financial Assurance 2:
Facility Id: 5223
Description: Gas Station/Conv Store
Work Phone: (401) 781-9900

J60 **LAFAYETTE SQUARE GULF STA** **LUST** **S100351844**
WNW **2 HILLDALE AVE** **INST CONTROL** **N/A**
1/8-1/4 **HAVERHILL, MA 01830** **RELEASE**
0.172 mi. **ENF**
907 ft. **Site 13 of 14 in cluster J** **HW GEN**

Relative: Higher

Actual: 28 ft.

LUST:

Facility:
Release Tracking Number/Current Status: 3-0002512 / RAO
Status Date: 10/21/2013
Source Type: UST
Release Town: HAVERHILL
Notification Date: 01/15/1990
Category: NONE
Associated ID: Not reported
Phase: PHASE IV
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Oil Or Haz Material: Not reported

Location Type: GASSTATION
Source: UST

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: UNKNOWN
Quantity: Not reported

LAFAYETTE SQUARE GULF STA (Continued) **S100351844**

Actions:

Action Type:	Release Disposition
Action Status:	Valid Transition Site
Action Date:	1/15/1990
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	Phase 4
Action Status:	Written Plan Received
Action Date:	10/10/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	Phase 4
Action Status:	Modified Revised or Updated Plan Received
Action Date:	10/16/2010
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	Phase 3
Action Status:	Revised Statement or Transmittal Received
Action Date:	10/16/2010
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	Activity and Use Limitation
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	10/16/2013
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	Activity and Use Limitation
Action Status:	Legal Notice Published
Action Date:	10/16/2013
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	10/18/2010
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received
Action Date:	10/21/2011
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

LAFAYETTE SQUARE GULF STA (Continued) **S100351844**

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 10/21/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 10/21/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 10/22/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 10/22/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 4
Action Status: Status or Interim Report Received
Action Date: 10/7/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 4
Action Status: RMRINT
Action Date: 10/7/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 4
Action Status: RMRINT
Action Date: 4/13/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 4
Action Status: Status or Interim Report Received
Action Date: 4/13/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO

LAFAYETTE SQUARE GULF STA (Continued) **S100351844**

Action Status: RMRINT
Action Date: 4/15/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 4/15/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 4/15/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 4/15/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 4/20/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 4/20/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 4
Action Status: RMRINT
Action Date: 4/9/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 4
Action Status: Status or Interim Report Received
Action Date: 4/9/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit

LAFAYETTE SQUARE GULF STA (Continued) **S100351844**

Action Date: 4/9/2014
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Status: Level I - Technical Screen Audit
Action Date: 4/9/2014
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Status: Level II - Audit Inspection
Action Date: 5/19/2014
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: BOL
Action Status: Transmittal, Notice, or Notification Received
Action Date: 6/12/2014
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: An activity type that is related to an Audit
Action Status: NAFNVD
Action Date: 6/13/2014
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 6/15/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 6/15/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 6/15/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: BOL
Action Status: SHPFAC
Action Date: 6/30/2014

LAFAYETTE SQUARE GULF STA (Continued) **S100351844**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Transfer
Action Date: 7/26/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 8/31/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 9/1/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 9/1/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Compliance and Enforcement Action
Action Status: Notice of Non-Compliance Issued
Action Date: 9/16/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 9/2/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 9/21/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 9/4/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

LAFAYETTE SQUARE GULF STA (Continued) **S100351844**

reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 9/4/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 3
Action Status: Completion Statement Received
Action Date: 9/4/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 9/6/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 9/7/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

INST CONTROL:

Release Tracking Number: 3-0002512
Action Type: AUL
Action Stat: LEGNOT
Action Date: 10/16/2013
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release Tracking Number: 3-0002512
Action Type: AUL
Action Stat: RECPT
Action Date: 10/16/2013
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release Tracking Number: 3-0002512
Action Type: AUL
Action Stat: SNAUDI
Action Date: 05/19/2014
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

LAFAYETTE SQUARE GULF STA (Continued) **S100351844**

Release Tracking Number: 3-0002512
Action Type: AUL
Action Stat: TSAUD
Action Date: 04/09/2014
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release:
Release Tracking Number/Current Status: 3-0002512 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 01/15/1990
Category: NONE
Status Date: 10/21/2013
Phase: PHASE IV
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Oil / Haz Material Type: Not reported

Click here to access the MA DEP site for this facility:

ENFORCEMENT:
Region: NERO
DEP Region: NERO
DEP Program: 3C
DEP Bureau: BWSC
Program: Not reported
Program Id: 3-0002512
High Or Low Level Enforcement: LLE
FMF #: Not reported
Comptroller Billing Name: Not reported
Town Where Violation Occurred: Not reported
Date Executed: 09/16/2009
ENF #: NON-NE-09-3C030
Document Type: NON
AG Ref (Y/N): Not reported
Doc Archived (Y/N): Not reported
EJ Community (Y/N): Not reported
Regional Comment: Not reported
Final Payment Due Date: Not reported
ACOP $: Not reported
PAN $: Not reported
EMS (Y/N): Not reported
EMS$: Not reported
SEP (Y/N): Not reported
SEP $: Not reported
Demand $: Not reported
Suspended $: Not reported
Ownership: Commercially Owned

HW GEN:
EPA Id: MV9783727773
RCRA Generator Status: VSQG

LAFAYETTE SQUARE GULF STA (Continued) **S100351844**

State Generator Status: Not reported

J61
WNW
1/8-1/4
0.172 mi.
907 ft.

2 HILLDALE AVE
HAVERHILL, MA 01832

EDR Hist Auto **1015299276**
N/A

Site 14 of 14 in cluster J

Relative:
Higher

Actual:
28 ft.

EDR Historical Auto Stations:

Name: BRADFORD TIRE SALES
Year: 1999
Address: 2 HILLDALE AVE

Name: BRADFORD TIRE SALES
Year: 2000
Address: 2 HILLDALE AVE

Name: DRAKE PETROLEUM CO INC
Year: 2008
Address: 2 HILLDALE AVE

Name: DRAKE PETROLEUM CO INC
Year: 2009
Address: 2 HILLDALE AVE

62
NNE
1/8-1/4
0.181 mi.
955 ft.

RESIDENCE
35 LEWIS ST
HAVERHILL, MA 01830

SHWS **S109613024**
LAST **N/A**
RELEASE
ENF

Relative:
Higher

Actual:
46 ft.

SHWS:

Release Tracking Number/Current Status:	3-0028544 / RAO
Release Town:	HAVERHILL
Notification Date:	06/09/2009
Category:	TWO HR
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	06/07/2012
Phase:	PHASE II
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Oil
Location Type:	RESIDNTIAL
Source:	AST
Source:	LINE

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	#2 FUEL OIL
Quantity:	50 gallons

Actions:

Action Type:	RLFA

RESIDENCE (Continued) **S109613024**

Action Status: FOLOFF
Action Date: 10/27/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 10/5/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of a Modified Plan
Action Date: 11/30/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 11/30/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 12/3/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 12/30/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 12/30/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 12/30/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 12/30/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 2/5/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

RESIDENCE (Continued) **S109613024**

reduced to background.

Action Type: Immediate Response Action
Action Status: Written Approval of Plan
Action Date: 2/5/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 3/25/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 4/6/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: ALSENT
Action Date: 4/7/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FLDRAN
Action Date: 4/9/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 5/6/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: BOL
Action Status: Transmittal, Notice, or Notification Received
Action Date: 6/14/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 6/26/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 6/26/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action

RESIDENCE (Continued) **S109613024**

Action Status: Completion Statement Received
Action Date: 6/7/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 6/7/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: FLDISS
Action Date: 6/9/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FLDD1U
Action Date: 6/9/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 6/9/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 6/9/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 8/13/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 8/25/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 8/25/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 8/25/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

RESIDENCE (Continued) **S109613024**

reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 8/28/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 9/21/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Compliance and Enforcement Action
Action Status: Notice of Non-Compliance Issued
Action Date: 9/30/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

LAST:
Release Tracking Number/Current Status: 3-0028544 / RAO
Source Type: AST
Release Town: HAVERHILL
Notification Date: 06/09/2009
Category: TWO HR
Associated ID: Not reported
Status Date: 06/07/2012
Phase: PHASE II
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material: Oil

Chemicals:
Chemical: #2 FUEL OIL
Quantity: 50 gallons
Location Type: RESIDNTIAL
Source: AST
Source: LINE

Actions:
Action Type: RLFA
Action Status: FOLOFF
Action Date: 10/27/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 10/5/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of a Modified Plan
Action Date: 11/30/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

RESIDENCE (Continued) **S109613024**

reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 11/30/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 12/3/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 12/30/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 12/30/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 12/30/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 12/30/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 2/5/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Written Approval of Plan
Action Date: 2/5/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 3/25/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action

RESIDENCE (Continued) **S109613024**

Action Status: Status or Interim Report Received
Action Date: 4/6/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: ALSENT
Action Date: 4/7/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FLDRAN
Action Date: 4/9/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 5/6/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: BOL
Action Status: Transmittal, Notice, or Notification Received
Action Date: 6/14/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 6/26/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 6/26/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 6/7/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 6/7/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: FLDISS
Action Date: 6/9/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

RESIDENCE (Continued) **S109613024**

reduced to background.

Action Type: RLFA
Action Status: FLDD1U
Action Date: 6/9/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 6/9/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 6/9/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 8/13/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 8/25/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 8/25/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 8/25/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 8/28/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 9/21/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Compliance and Enforcement Action

RESIDENCE (Continued) **S109613024**

Action Status:	Notice of Non-Compliance Issued
Action Date:	9/30/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Release Tracking Number/Current Status:	3-0028544 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	06/09/2009
Category:	TWO HR
Status Date:	06/07/2012
Phase:	PHASE II
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

ENFORCEMENT:

Region:	NERO
DEP Region:	NERO
DEP Program:	3E
DEP Bureau:	BWSC
Program:	Not reported
Program Id:	3-0028544
High Or Low Level Enforcement:	LLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Not reported
Date Executed:	09/30/2009
ENF #:	NON-NE-09-3E006
Document Type:	NON
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	Not reported
Regional Comment:	Not reported
Final Payment Due Date:	Not reported
ACOP $:	Not reported
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	Not reported
Ownership:	Individually Owned

K63 SE 1/8-1/4 0.181 mi. 955 ft. | **FORMER AUTO BODY SHOP AND TRUCK GARAGE**
20-22 LOCKE STREET
HAVERHILL, MA 01830 | **US BROWNFIELDS FINDS ECHO** | **1016348659 N/A**

Site 1 of 3 in cluster K

Relative: Higher

Actual: 25 ft.

US BROWNFIELDS:

Recipient name:	Merrimack Valley Planning Commission
Grant type:	Assessment
Property name:	FORMER AUTO BODY SHOP AND TRUCK GARAGE
Property #:	304-58-20
Parcel size:	.2
Property Description:	An auto body repair shop and truck garage occupied the property from 1940s - 1993. The City of Haverhill took ownership in 1995. The property is not currently in use.
Latitude:	42.775285
Longitude:	-71.085505
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	World Geodetic System of 1984
ACRES property ID:	15220
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	5000
Assessment funding source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	Not reported
Cleanup funding entity:	Not reported
Grant type:	N/A
Accomplishment type:	Phase I Environmental Assessment
Accomplishment count:	1
Cooperative agreement #:	98192401
Ownership entity:	Government
Current owner:	City of Haverhill
Did owner change:	N
Cleanup required:	Unknown
Video available:	No
Photo available:	Yes
Institutional controls required:	N
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Unknown
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported

FORMER AUTO BODY SHOP AND TRUCK GARAGE (Continued) **1016348659**

Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Y
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Y
Other contams found description:	hazardous substances
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported

FORMER AUTO BODY SHOP AND TRUCK GARAGE (Continued) **1016348659**

Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported

FINDS:

Registry ID: 110038747023

Environmental Interest/Information System
US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES) is an federal online database for Brownfields Grantees to electronically submit data directly to EPA.

ECHO:

Envid:	1016348659
Registry ID:	110038747023
FIPS Code:	33013
EPA Region:	01
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Y
Latitude:	42.77532
Longitude:	-71.08517
Map Icon:	NONE-UNK-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	CENTER OF A FACILITY OR STATION
Accuracy Meters:	30
Derived Tribes:	Not reported
Derived Huc:	01070006
Derived WBD:	Not reported
Derived STCT FPS:	25009
Derived Zip:	01830
Derived CD113:	03
Derived CB2010:	250092601003016
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported

FORMER AUTO BODY SHOP AND TRUCK GARAGE (Continued) **1016348659**

Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	Not reported
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	Not reported
Programs in SNC:	0
Curr Compliance Status:	Not reported
Curr SNC Flag:	N
3yr Compliance Status:	Not reported
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	Not reported
RCRA Permit Types:	Not reported
RCRA NAICS:	Not reported

FORMER AUTO BODY SHOP AND TRUCK GARAGE (Continued) **1016348659**

RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	Not reported
RCRA Curr Compliance Status:	Not reported
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	Not reported
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110038747023
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

L64 **BENEATH BLDG 1 TRC-7 AREA** **SHWS** **S108962714**
SE **117 ESSEX ST** **INST CONTROL** **N/A**
1/8-1/4 **HAVERHILL, MA 01830** **BROWNFIELDS**
0.186 mi. **RELEASE**
982 ft. **Site 1 of 7 in cluster L**

Relative:
Higher

Actual:
27 ft.

SHWS:

Release Tracking Number/Current Status:	3-0027348 / RAO
Release Town:	HAVERHILL
Notification Date:	12/26/2007
Category:	120 DY
Associated ID:	3-0027348
Current Status:	**Response Action Outcome**
Status Date:	12/23/2009
Phase:	PHASE II
Response Action Outcome:	A3 - A permanent solution has been achieved. Contamination has not

BENEATH BLDG 1 TRC-7 AREA (Continued) **S108962714**

been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Oil Or Haz Material: Hazardous Material
Source: UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	INDENO(1,2,3-CD)PYRENE
Quantity:	138 milligrams per kilogram
Chemical:	BENZO[A]PYRENE
Quantity:	176 milligrams per kilogram
Chemical:	CADMIUM
Quantity:	17.9 milligrams per kilogram
Chemical:	ACENAPTHENE
Quantity:	156 milligrams per kilogram
Chemical:	BENZO[A]ANTHRACENE
Quantity:	201 milligrams per kilogram
Chemical:	CHRYSENE
Quantity:	170 milligrams per kilogram
Chemical:	DIBENZ[A,H]ANTHRACENE
Quantity:	23.9 milligrams per kilogram
Chemical:	PHENANTHRENE
Quantity:	624 milligrams per kilogram
Chemical:	NAPHTHALENE
Quantity:	13.4 milligrams per kilogram
Chemical:	BENZO[B]FLUORANTHENE
Quantity:	186 milligrams per kilogram
Chemical:	DIBENZOFURAN
Quantity:	104 milligrams per kilogram

Actions:

Action Type:	Tier Classification
Action Status:	Legal Notice Published
Action Date:	1/2/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	1/23/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	An activity type that is related to an Audit
Action Status:	NAFNVD
Action Date:	10/13/2011
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	ALSENT
Action Date:	10/15/2008

BENEATH BLDG 1 TRC-7 AREA (Continued) **S108962714**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 10/16/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Status: FLDRAN
Action Date: 10/4/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Status: Level II - Audit Inspection
Action Date: 10/4/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 11/14/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 11/21/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Status: Fee Received - FMCRA Use Only
Action Date: 11/25/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Status: FLDDO
Action Date: 12/17/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 12/23/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

BENEATH BLDG 1 TRC-7 AREA (Continued) **S108962714**

reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 12/23/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Status: Transmittal, Notice, or Notification Received
Action Date: 12/23/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 12/26/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 12/26/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 12/29/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 12/29/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 12/29/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 12/29/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

BENEATH BLDG 1 TRC-7 AREA (Continued) **S108962714**

been implemented.

Action Type: Activity and Use Limitation
Action Status: Legal Notice Published
Action Date: 12/30/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 3/12/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Status: Level I - Technical Screen Audit
Action Date: 4/27/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 4/27/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 9/9/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Status: Modified Revised or Updated Plan Received
Action Date: 9/9/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release Tracking Number/Current Status: 3-0027997 / RAONR
Release Town: HAVERHILL
Notification Date: 09/18/2008
Category: 120 DY
Associated ID: 3-0027348
Current Status: **Response Action Outcome Not Required**
Status Date: 12/29/2008
Phase: Not reported
Response Action Outcome: -
Oil Or Haz Material: Hazardous Material

BENEATH BLDG 1 TRC-7 AREA (Continued) **S108962714**

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	TRIVALENT CHROMIUM
Quantity:	1700 milligrams per kilogram
Chemical:	HEXAVALENT CHROMIUM
Quantity:	71 milligrams per kilogram

Actions:

Action Type:	Tier Classification
Action Status:	Legal Notice Published
Action Date:	1/2/2009
Response Action Outcome:	Not reported
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	10/15/2008
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Written Plan Received
Action Date:	11/14/2008
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Fee Received - FMCRA Use Only
Action Date:	11/25/2008
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Completion Statement Received
Action Date:	12/23/2009
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via Tier Classification Submittal
Action Date:	12/29/2008
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	12/29/2008
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	12/29/2008
Response Action Outcome:	Not reported
Action Type:	RAO Not Required
Action Status:	Linked to a Tier Classified Site
Action Date:	12/29/2008
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure

BENEATH BLDG 1 TRC-7 AREA (Continued) **S108962714**

Action Status: Status or Interim Report Received
Action Date: 3/12/2009
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 9/18/2008
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 9/18/2008
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 9/30/2008
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 9/30/2008
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 9/9/2009
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Modified Revised or Updated Plan Received
Action Date: 9/9/2009
Response Action Outcome: Not reported

INST CONTROL:
Release Tracking Number: 3-0027348
Action Type: AUL
Action Stat: LEGNOT
Action Date: 12/30/2009
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release Tracking Number: 3-0027348
Action Type: AUL
Action Stat: RECPT
Action Date: 12/23/2009
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release Tracking Number: 3-0027348
Action Type: AUL
Action Stat: SNAUDI
Action Date: 10/04/2011
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not

BENEATH BLDG 1 TRC-7 AREA (Continued) **S108962714**

been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release Tracking Number: 3-0027348
Action Type: AUL
Action Stat: TSAUD
Action Date: 04/27/2011
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

BROWNFIELDS 2:
RTN: 3-0027997
RAO Class: Not reported
Other RTNs: Not reported
Current Owner: Fc Haverhill, Llc
MCP Status: RTN CLOSED
AUL: Not reported
COCs: Chromium
Former Use: Not reported
Current Use: Not reported
Total Acreage: 4.57

Release:
Release Tracking Number/Current Status: 3-0027348 / RAO
Primary ID: 3-0027348
Official City: HAVERHILL
Notification: 12/26/2007
Category: 120 DY
Status Date: 12/23/2009
Phase: PHASE II
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Oil / Haz Material Type: Hazardous Material

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status: 3-0027997 / RAONR
Primary ID: 3-0027348
Official City: HAVERHILL
Notification: 09/18/2008
Category: 120 DY
Status Date: 12/29/2008
Phase: Not reported
Response Action Outcome: -
Oil / Haz Material Type: Hazardous Material

Click here to access the MA DEP site for this facility:

M65 **EDR Hist Auto** **1015200182**
NW **13 HILLDALE AVE** **N/A**
1/8-1/4 **HAVERHILL, MA 01832**
0.187 mi.
985 ft. **Site 1 of 2 in cluster M**

Relative:
Higher

Actual:
27 ft.

EDR Historical Auto Stations:
Name: DIAMOND AUTO WORKS
Year: 2002
Address: 13 HILLDALE AVE

M66 **EDR Hist Cleaner** **1014986625**
NW **13 HILLDALE AVE** **N/A**
1/8-1/4 **HAVERHILL, MA 01832**
0.187 mi.
985 ft. **Site 2 of 2 in cluster M**

Relative:
Higher

Actual:
27 ft.

EDR Historical Cleaners:
Name: SHOWCASE LAUNDRY
Year: 2010
Address: 13 HILLDALE AVE

Name: SHOWCASE LAUNDRY
Year: 2011
Address: 13 HILLDALE AVE

Name: SHOWCASE LAUNDRY
Year: 2012
Address: 13 HILLDALE AVE

K67 **RICE & BROUILLARD ELECTRIC** **HW GEN** **S112559973**
SE **19-35 LOCKE ST** **N/A**
1/8-1/4 **HAVERHILL, MA 01831**
0.188 mi.
991 ft. **Site 2 of 3 in cluster K**

Relative:
Higher

Actual:
25 ft.

HW GEN:
EPA Id: MV9783728734
RCRA Generator Status: Not reported
State Generator Status: VQG-MA

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68 **EDR Hist Auto** **1015141634**
East **106 LOCUST ST** **N/A**
1/8-1/4 **HAVERHILL, MA 01830**
0.189 mi.
1000 ft.

Relative:
Higher

Actual:
51 ft.

EDR Historical Auto Stations:
Name: J & K AUTO REPAIR
Year: 2003
Address: 106 LOCUST ST

Name: J & K AUTO REPAIR
Year: 2004
Address: 106 LOCUST ST

Name: J & K AUTO REPAIR

(Continued) **1015141634**

Year: 2005
Address: 106 LOCUST ST

Name: J & K AUTO REPAIR
Year: 2006
Address: 106 LOCUST ST

Name: J & K AUTO REPAIR
Year: 2007
Address: 106 LOCUST ST

Name: J & K AUTO REPAIR
Year: 2008
Address: 106 LOCUST ST

Name: J & K AUTO REPAIR
Year: 2009
Address: 106 LOCUST ST

Name: J & K AUTO REPAIR
Year: 2010
Address: 106 LOCUST ST

Name: J & K AUTO REPAIR
Year: 2011
Address: 106 LOCUST ST

Name: J & K AUTO REPAIR
Year: 2012
Address: 106 LOCUST ST

L69 **NO LOCATION AID** **SHWS** **S109948745**
SE **113 ESSEX ST** **RELEASE** **N/A**
1/8-1/4 **HAVERHILL, MA 01832**
0.190 mi.
1001 ft. **Site 2 of 7 in cluster L**

Relative:
Higher

Actual:
27 ft.

SHWS:

Release Tracking Number/Current Status:	3-0028653 / RAO
Release Town:	HAVERHILL
Notification Date:	08/03/2009
Category:	TWO HR
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	08/28/2009
Phase:	Not reported
Response Action Outcome:	A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil Or Haz Material:	Oil
Location Type:	TRIAL
Location Type:	INDUS
Location Type:	ABANDONED
Source:	VEHICLE

Click here to access the MA DEP site for this facility:

NO LOCATION AID (Continued) **S109948745**

Chemicals:

Chemical:	HYDRAULIC OIL
Quantity:	15 gallons
Chemical:	HYDRAULIC FLUID
Quantity:	50 gallons

Actions:

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	8/12/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	8/28/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	RNFE
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	8/28/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	8/28/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	8/3/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	8/3/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Response Action Outcome - RAO
Action Status:	Level I - Technical Screen Audit
Action Date:	9/8/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:

Release Tracking Number/Current Status:	3-0028653 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	08/03/2009
Category:	TWO HR
Status Date:	08/28/2009

NO LOCATION AID (Continued) **S109948745**

Phase: Not reported
Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

L70
SE
1/8-1/4
0.193 mi.
1019 ft.

NO LOCATION AID **SHWS** **S108962819**
109 ESSEX ST **RELEASE** **N/A**
HAVERHILL, MA 01830

Site 3 of 7 in cluster L

Relative:
Higher

Actual:
27 ft.

SHWS:
Release Tracking Number/Current Status: 3-0027284 / RAO
Release Town: HAVERHILL
Notification Date: 11/27/2007
Category: 120 DY
Associated ID: Not reported
Current Status: **Response Action Outcome**
Status Date: 08/11/2008
Phase: Not reported
Response Action Outcome: B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.
Oil Or Haz Material: Hazardous Material

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: 1,3,5-TRIMETHYL BENZENE
Quantity: 10 milligrams per kilogram

Actions:
Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 1/25/2008
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 1/28/2008
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 11/27/2007
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 11/27/2007
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

NO LOCATION AID (Continued) **S108962819**

Action Type: RLFA
Action Status: FOLOFF
Action Date: 2/3/2008
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 8/11/2008
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome - RAO
Action Status: Fee Received - FMCRA Use Only
Action Date: 8/15/2008
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 9/18/2008
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Release:
Release Tracking Number/Current Status: 3-0027284 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 11/27/2007
Category: 120 DY
Status Date: 08/11/2008
Phase: Not reported
Response Action Outcome: B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.
Oil / Haz Material Type: Hazardous Material

Click here to access the MA DEP site for this facility:

K71 **STOLLER PROPERTY/FOREST CITY RESIDENTIAL** **US BROWNFIELDS** **1016392626**
SE **10-62 LOCKE STREET** **FINDS** **N/A**
1/8-1/4 **HAVERHILL, MA 01830** **ECHO**
0.193 mi.
1019 ft. **Site 3 of 3 in cluster K**

Relative:
Higher

Actual:
25 ft.

US BROWNFIELDS:
Recipient name: Haverhill, City of
Grant type: Assessment
Property name: STOLLER PROPERTY/FOREST CITY RESIDENTIAL
Property #: Block 57 Lot 1; Block 58 Lots 4,11,20,21,22; Block 61 Lots 6-10
Parcel size: 5.15
Property Description: Three former mill/industrial buildings have since been redeveloped by Forest City Residential into 305 units of housing known as Hamel Lofts. The grand opening was on September 30, 2009. The redevelopment was funded with 70M in private investment.
Latitude: 42.7750597

STOLLER PROPERTY/FOREST CITY RESIDENTIAL (Continued) **1016392626**

Longitude:	-71.0850894
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983
ACRES property ID:	159401
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	9900
Assessment funding source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment funding:	15000000
Redev. funding source:	Private/Other Funding
Redev. funding entity name:	Firest City Residential
Redevelopment start date:	10/01/2008 00:00:00
Assessment funding entity:	EPA
Cleanup funding entity:	Not reported
Grant type:	H
Accomplishment type:	Phase I Environmental Assessment
Accomplishment count:	1
Cooperative agreement #:	97137401
Ownership entity:	Private
Current owner:	Stoller Company
Did owner change:	N
Cleanup required:	Yes
Video available:	No
Photo available:	No
Institutional controls required:	Y
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Y
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	02/13/2003 00:00:00
IC in place:	Yes
State/tribal program date:	07/31/2002 00:00:00
State/tribal program ID:	3-17252
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Y
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported

STOLLER PROPERTY/FOREST CITY RESIDENTIAL (Continued) **1016392626**

Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Not reported
PCBs found:	Y
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Y
Surface water cleaned:	Not reported
VOCs found:	Y
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	0
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	5.15
Future use greenspace acreage:	Not reported
Future use residential acreage:	5.15
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported

STOLLER PROPERTY/FOREST CITY RESIDENTIAL (Continued) **1016392626**

Recipient name:	Haverhill, City of
Grant type:	Assessment
Property name:	STOLLER PROPERTY/FOREST CITY RESIDENTIAL
Property #:	Block 57 Lot 1; Block 58 Lots 4,11,20,21,22; Block 61 Lots 6-10
Parcel size:	5.15
Property Description:	Three former mill/industrial buildings have since been redeveloped by Forest City Residential into 305 units of housing known as Hamel Lofts. The grand opening was on September 30, 2009. The redevelopment was funded with 70M in private investment.
Latitude:	42.7750597
Longitude:	-71.0850894
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983
ACRES property ID:	159401
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	123500
Assessment funding source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment funding:	15000000
Redev. funding source:	Private/Other Funding
Redev. funding entity name:	Firest City Residential
Redevelopment start date:	10/01/2008 00:00:00
Assessment funding entity:	EPA
Cleanup funding entity:	Not reported
Grant type:	H
Accomplishment type:	Phase II Environmental Assessment
Accomplishment count:	0
Cooperative agreement #:	97137401
Ownership entity:	Private
Current owner:	Stoller Company
Did owner change:	N
Cleanup required:	Yes
Video available:	No
Photo available:	No
Institutional controls required:	Y
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Y
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	02/13/2003 00:00:00
IC in place:	Yes
State/tribal program date:	07/31/2002 00:00:00
State/tribal program ID:	3-17252
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported

STOLLER PROPERTY/FOREST CITY RESIDENTIAL (Continued) **1016392626**

Groundwater affected:	Y
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Not reported
PCBs found:	Y
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Y
Surface water cleaned:	Not reported
VOCs found:	Y
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	0
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	5.15
Future use greenspace acreage:	Not reported
Future use residential acreage:	5.15
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported

STOLLER PROPERTY/FOREST CITY RESIDENTIAL (Continued) **1016392626**

Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported

FINDS:

Registry ID: 110055263968

Environmental Interest/Information System
US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES) is an federal online database for Brownfields Grantees to electronically submit data directly to EPA.

ECHO:

Envid:	1016392626
Registry ID:	110055263968
FIPS Code:	25009
EPA Region:	01
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Y
Latitude:	42.774998
Longitude:	-71.085054
Map Icon:	NONE-UNK-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	ENTRANCE POINT OF A FACILITY OR STATION
Accuracy Meters:	50
Derived Tribes:	Not reported
Derived Huc:	01070006
Derived WBD:	010700061401
Derived STCT FPS:	25009
Derived Zip:	01830
Derived CD113:	03
Derived CB2010:	250092601003015
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported

STOLLER PROPERTY/FOREST CITY RESIDENTIAL (Continued) **1016392626**

Total Penalties:	0
Penalty Count:	Not reported
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	Not reported
Programs in SNC:	0
Curr Compliance Status:	Not reported
Curr SNC Flag:	N
3yr Compliance Status:	Not reported
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	Not reported
RCRA Permit Types:	Not reported
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported

STOLLER PROPERTY/FOREST CITY RESIDENTIAL (Continued) **1016392626**

RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	Not reported
RCRA Curr Compliance Status:	Not reported
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	Not reported
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110055263968
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

N72 **MORELS AUTO REPAIR** **HW GEN** **S113411345**
ENE **174 WINTER ST** **N/A**
1/8-1/4 **HAVERHILL, MA 01830**
0.193 mi.
1020 ft. **Site 1 of 5 in cluster N**

Relative:
Higher

Actual:
68 ft.

HW GEN:

EPA Id:	MV9783720845
RCRA Generator Status:	Not reported
State Generator Status:	SQG-MA

N73 ENE 1/8-1/4 0.193 mi. 1020 ft. | **SUNOCO SERVICE STA**
174 WINTER ST
HAVERHILL, MA 01830 | **RCRA NonGen / NLR**
FINDS
ECHO | **1000690268**
MAD000636936

Site 2 of 5 in cluster N

Relative: Higher

Actual: 68 ft.

RCRA NonGen / NLR:

Date form received by agency:	08/18/1980
Facility name:	SUNOCO SERVICE STA
Facility address:	174 WINTER ST HAVERHILL, MA 01830
EPA ID:	MAD000636936
Contact:	CHRIS KOSMES
Contact address:	174 WINTER ST HAVERHILL, MA 01830
Contact country:	US
Contact telephone:	(617) XXX-XXXX
Contact email:	Not reported
EPA Region:	01
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	KOSMES CHRIS
Owner/operator address:	174 WINTER ST HAVERHILL, MA 01830
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	10/16/2004
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

FINDS:

Registry ID: 110003413574

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of

SUNOCO SERVICE STA (Continued) **1000690268**

events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MA-EPICS - Massachussetts Environmental Protection Integrated Computer System

ECHO:

Envid:	1000690268
Registry ID:	110003413574
FIPS Code:	25009
EPA Region:	01
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Y
Latitude:	42.77751
Longitude:	-71.08423
Map Icon:	RCRA-IC-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	CENTER OF A FACILITY OR STATION
Accuracy Meters:	30
Derived Tribes:	Not reported
Derived Huc:	01070006
Derived WBD:	Not reported
Derived STCT FPS:	25009
Derived Zip:	01830
Derived CD113:	03
Derived CB2010:	250092601003011
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	_____
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y

SUNOCO SERVICE STA (Continued) **1000690268**

TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	MAD000636936
RCRA Permit Types:	Other
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0
RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported

SUNOCO SERVICE STA (Continued) **1000690268**

SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110003413574
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

N74 **EDR Hist Auto** **1015271766**
ENE **174 WINTER ST** **N/A**
1/8-1/4 **HAVERHILL, MA 01830**
0.193 mi.
1020 ft. **Site 3 of 5 in cluster N**

Relative:
Higher

Actual:
68 ft.

EDR Historical Auto Stations:

Name:	KOSMES SUNOCO STATION
Year:	1999
Address:	174 WINTER ST
Name:	KOSMES SUNOCO STATION
Year:	2000
Address:	174 WINTER ST
Name:	KOSMES INSPECTION STATION
Year:	2001
Address:	174 WINTER ST
Name:	KOSMES SUNOCO STATION
Year:	2002
Address:	174 WINTER ST
Name:	KOSMES INSPECTION STATION
Year:	2003
Address:	174 WINTER ST
Name:	WINTER STREET AUTO SERVICES
Year:	2005
Address:	174 WINTER ST
Name:	WINTER STREET AUTO SERVICES
Year:	2006

(Continued) **1015271766**

Address: 174 WINTER ST

Name: WINTER STREET AUTO SERVICES
Year: 2007
Address: 174 WINTER ST

Name: WINTER STREET AUTO SERVICES
Year: 2008
Address: 174 WINTER ST

Name: WINTER STREET AUTO REPAIR
Year: 2009
Address: 174 WINTER ST

Name: WINTER STREET AUTO SVC
Year: 2010
Address: 174 WINTER ST

Name: MORELS AUTO REPAIR & SERVICE
Year: 2011
Address: 174 WINTER ST

Name: MORELS AUTO REPAIR & SERVICE
Year: 2012
Address: 174 WINTER ST

N75 **GASOLINE STATION FMR** **LUST** **S101035667**
ENE **174 WINTER ST** **RELEASE** **N/A**
1/8-1/4 **HAVERHILL, MA 01830** **SPILLS**
0.193 mi.
1020 ft. **Site 4 of 5 in cluster N**

Relative:
Higher

Actual:
68 ft.

LUST:

Facility:

Release Tracking Number/Current Status:	3-0003461 / RAO
Status Date:	08/28/1995
Source Type:	UST
Release Town:	HAVERHILL
Notification Date:	04/28/1994
Category:	NONE
Associated ID:	Not reported
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Not reported
Source:	UST

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	UNKNOWN
Quantity:	Not reported

Actions:

GASOLINE STATION FMR (Continued) **S101035667**

Action Type:	Release Disposition
Action Status:	Valid Transition Site
Action Date:	4/28/1994
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	4/28/1994
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	4/28/1994
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	8/28/1995
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Release Tracking Number/Current Status:	3-0003461 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	04/28/1994
Category:	NONE
Status Date:	08/28/1995
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type:	Not reported

Click here to access the MA DEP site for this facility:

MA Spills:

Facility ID:	3-3461	Spill ID:	N90-1526
Staff Lead:	BRADLEY, R	Date Entered:	19901119
Last Entered:	19940104	First Response:	19900917
Spill Date:	19900917	Spill Time:	Not reported
Report Date:	19900917	Report Time:	Not reported
Case Closed:	YES	Mat Type:	Not reported
Virgin Waste:	Not reported	Contam Soil:	Not reported
Env Impact:	Not reported	Other Impact:	Not reported
Material:	Not reported	Other Material:	Not reported
Qty Reported:	Not reported	Qty Actual:	Not reported
Qty Reported:	Not reported	Qty Actual:	Not reported
CAS No:	Not reported	PCB Lev (ppm):	Not reported
Source:	Not reported	Other Source:	Not reported
Incident:	Not reported	Other Incdnt:	Not reported
Cleanup Type:	Not reported	Contractor:	Not reported

GASOLINE STATION FMR (Continued) **S101035667**

Referral:	SA	LUST Elig:	Not reported
Report Prep:	Not reported	Category:	Not reported
Notifier:	ANONYMOUS		
Notif Tel:	Not reported		
Days/Close:	0		

O76 **STARSIGN** **RCRA-CESQG** **1004717497**
ESE **64 LOCUST ST** **FINDS** **MAD982546269**
1/8-1/4 **HAVERHILL, MA 01830** **ECHO**
0.199 mi.
1052 ft. **Site 1 of 4 in cluster O**

Relative:
Higher

Actual:
29 ft.

RCRA-CESQG:

Date form received by agency:	10/15/1987
Facility name:	STARSIGN
Facility address:	64 LOCUST ST HAVERHILL, MA 01830
EPA ID:	MAD982546269
Contact:	PHILLIP-L PICARD
Contact address:	64 LOCUST ST HAVERHILL, MA 01830
Contact country:	US
Contact telephone:	(508) 372-8849
Contact email:	Not reported
EPA Region:	01
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	PHILLIP L PICARD
Owner/operator address:	64 LOCUST ST HAVERHILL, MA 01830
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	10/16/2004
Owner/Op end date:	Not reported
Owner/operator name:	STARSIGN
Owner/operator address:	64 LOCUST ST HAVERHILL, MA 01830
Owner/operator country:	US
Owner/operator telephone:	Not reported

STARSIGN (Continued) **1004717497**

Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 12/08/1991
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110003481964

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MA-EPICS - Massachussetts Environmental Protection Integrated Computer System

ECHO:
Envid: 1004717497
Registry ID: 110003481964
FIPS Code: 25009
EPA Region: 01
Indian Country Flag: N
Federal Flag: Not reported
US Mexico Border Flag: Not reported
Chesapeake Bay Flag: Not reported
NAA Flag: Y
Latitude: 42.7759
Longitude: -71.08436
Map Icon: RCRA-IC-MN-N.png
Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Reference Point: CENTER OF A FACILITY OR STATION
Accuracy Meters: 30
Derived Tribes: Not reported

STARSIGN (Continued) **1004717497**

Derived Huc:	01070006
Derived WBD:	Not reported
Derived STCT FPS:	25009
Derived Zip:	01830
Derived CD113:	03
Derived CB2010:	250092601003015
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Y
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	_____
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported

STARSIGN (Continued) **1004717497**

CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	MAD982546269
RCRA Permit Types:	CESQG
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0
RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110003481964
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

O77
ESE
1/8-1/4
0.199 mi.
1052 ft.

STARSIGN
64 LOCUST ST
HAVERHILL, MA 01830

HW GEN **S112553258**
N/A

Site 2 of 4 in cluster O

Relative:
Higher

Actual:
29 ft.

HW GEN:

EPA Id:	MAD982546269
RCRA Generator Status:	VSQG
State Generator Status:	Not reported

P78
North
1/8-1/4
0.202 mi.
1068 ft.

BSS REALTY TRUST
61 HALE ST
HAVERHILL, MA 01830

UST **U003000363**
Financial Assurance **N/A**

Site 1 of 3 in cluster P

Relative:
Higher

Actual:
35 ft.

UST:

Facility:

Facility ID:	5201
Owner Id:	919
Owner:	BSS REALTY TRUST
Owner Address:	79 CONCORD ST
Owner City,St,Zip:	HAVERHILL, MA 01830
Telephone:	(617) 372-8951
Description:	Other
Fire Dept. ID:	9128
Date of Inspection:	Not reported

Tank ID:	1
Serial Number:	Not reported
Tank Status:	**Removed**
Status Date:	Not reported
Date Installed:	05/08/1976
Capacity:	2000
Contents:	Unknown
Tank Type:	Not reported
Tank Usage:	Not reported
Tank Material:	Steel
Tank Leak Detection:	Not reported
Pipe Material:	Steel
Pipe Container:	Not reported
Pipe Leak Detection:	Not reported
Above Ground:	No

MA Financial Assurance 2:

Facility Id:	5201
Description:	Other
Work Phone:	(617) 372-8951

L79 SE 1/8-1/4 0.203 mi. 1071 ft. | **DOHERTY H E CO INC**
104 ESSEX ST
HAVERHILL, MA 01831 | **RCRA NonGen / NLR** | **1000219775**
MAD030830657

Site 4 of 7 in cluster L

Relative: Higher

Actual: 28 ft.

RCRA NonGen / NLR:

Date form received by agency:	08/13/1985
Facility name:	DOHERTY H E CO INC
Facility address:	104 ESSEX ST HAVERHILL, MA 01831
EPA ID:	MAD030830657
Mailing address:	PO BOX 571 HAVERHILL, MA 01831
Contact:	UNKNOWN UNKNOWN
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(999) 999-9999
Contact email:	Not reported
EPA Region:	01
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	DOHERTY H E CO INC
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	03/01/1990
Owner/Op end date:	06/03/1991

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code: D001
. Waste name: IGNITABLE WASTE

Violation Status: No violations found

L80 SE 1/8-1/4 0.203 mi. 1071 ft. | **ENTERPRISE CIRCUITS CO**
104 ESSEX ST
HAVERHILL, MA 01830 | **CERCLIS-NFRAP** / **RCRA NonGen / NLR** | **1000204276** / **MAD012313177**

Site 5 of 7 in cluster L

Relative: Higher

Actual: 28 ft.

CERCLIS-NFRAP:

Site ID:	0100474
Federal Facility:	Not a Federal Facility
NPL Status:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:

Contact Sequence ID:	1334417.00000
Person ID:	1270187.00000

CERCLIS-NFRAP Assessment History:

Action:	DISCOVERY
Date Started:	/ /
Date Completed:	06/01/84
Priority Level:	Not reported
Action:	ARCHIVE SITE
Date Started:	/ /
Date Completed:	08/12/98
Priority Level:	Not reported
Action:	SITE INSPECTION
Date Started:	/ /
Date Completed:	11/27/90
Priority Level:	Low priority for further assessment
Action:	PRELIMINARY ASSESSMENT
Date Started:	/ /
Date Completed:	09/30/87
Priority Level:	Low priority for further assessment

RCRA NonGen / NLR:

Date form received by agency:	05/01/1984
Facility name:	ENTERPRISE CIRCUITS CO
Facility address:	104 ESSEX ST HAVERHILL, MA 01830
EPA ID:	MAD012313177
Contact:	ROBERT RICHARD
Contact address:	104 ESSEX ST HAVERHILL, MA 01830
Contact country:	US
Contact telephone:	(508) 372-9283
Contact email:	Not reported
EPA Region:	01
Land type:	Private
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	ENTERPRISE CIRCUITS CO
Owner/operator address:	104 ESSEX ST

ENTERPRISE CIRCUITS CO (Continued) **1000204276**

HAVERHILL, MA 01830
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 12/08/1991
Owner/Op end date: Not reported

Owner/operator name: PHILIP M NUTE
Owner/operator address: 104 ESSEX ST
HAVERHILL, MA 01830
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 10/16/2004
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

. Waste code: U002

ENTERPRISE CIRCUITS CO (Continued) **1000204276**

. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

. Waste code: U122
. Waste name: FORMALDEHYDE

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 08/22/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

L81 SE 1/8-1/4 0.203 mi. 1071 ft. | **ACCELERATED CIRCUITS FMR** | **SHWS** | **S101696253**
104 ESSEX ST | **BROWNFIELDS** | **N/A**
HAVERHILL, MA 01830 | **RELEASE**

Site 6 of 7 in cluster L

Relative: Higher

Actual: 28 ft.

SHWS:
Release Tracking Number/Current Status: 3-0000328 / RAO
Release Town: HAVERHILL
Notification Date: 01/15/1987
Category: NONE
Associated ID: Not reported
Current Status: **Response Action Outcome**
Status Date: 03/09/2007
Phase: PHASE II
Response Action Outcome: B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.
Oil Or Haz Material: Not reported

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: UNKNOWN
Quantity: Not reported

Actions:
Action Type: Release Disposition
Action Status: Valid Transition Site
Action Date: 1/15/1987
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RLFA
Action Status: FOLFLD
Action Date: 1/24/2006
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 10/11/2006
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

ACCELERATED CIRCUITS FMR (Continued) **S101696253**

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 10/11/2006
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 10/11/2006
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 10/11/2006
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Compliance and Enforcement Action
Action Status: Notice of Non-Compliance Issued
Action Date: 10/20/2005
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 3/9/2007
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 4/13/2005
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 8/2/2006
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

BROWNFIELDS 2:
RTN: 3-0000328
RAO Class: B1
Other RTNs: Not reported
Current Owner: Lotus Realty Llc
MCP Status: RAO
AUL: No
COCs: Unknown
Former Use: Not reported
Current Use: Not reported
Total Acreage: 0.417

Release:

ACCELERATED CIRCUITS FMR (Continued) **S101696253**

Release Tracking Number/Current Status:	3-0000328 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	01/15/1987
Category:	NONE
Status Date:	03/09/2007
Phase:	PHASE II
Response Action Outcome:	B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.
Oil / Haz Material Type:	Not reported

Click here to access the MA DEP site for this facility:

L82 **DOHERTY H E CO INC** **RCRA NonGen / NLR** **1000160723**
SE **104 ESSEX ST** **FINDS** **MAD177228376**
1/8-1/4 **HAVERHILL, MA 01831** **ECHO**
0.203 mi.
1071 ft. **Site 7 of 7 in cluster L**

Relative:
Higher

Actual:
28 ft.

RCRA NonGen / NLR:

Date form received by agency:	07/19/1988
Facility name:	GALAXY CIRCUITS INC
Facility address:	104 ESSEX ST HAVERHILL, MA 01830
EPA ID:	MAD177228376
Contact:	NAVIN J PATEL
Contact address:	104 ESSEX ST HAVERHILL, MA 01830
Contact country:	US
Contact telephone:	(508) 373-9311
Contact email:	Not reported
EPA Region:	01
Land type:	Private
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	NAVIN PATEL
Owner/operator address:	104 ESSEX ST HAVERHILL, MA 01830
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	10/16/2004
Owner/Op end date:	Not reported

Owner/operator name:	GALAXY CIRCUITS INC
Owner/operator address:	104 ESSEX ST HAVERHILL, MA 01830
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	12/08/1991
Owner/Op end date:	11/03/1994

DOHERTY H E CO INC (Continued) **1000160723**

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D008
. Waste name: LEAD

Facility Has Received Notices of Violations:

Regulation violated:	Not reported
Area of violation:	Generators - General
Date violation determined:	10/02/1990
Date achieved compliance:	12/14/1990
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	11/01/1990
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Regulation violated:	Not reported
Area of violation:	Formal Enforcement Agreement or Order
Date violation determined:	10/02/1990
Date achieved compliance:	12/14/1990
Violation lead agency:	State
Enforcement action:	Not reported
Enforcement action date:	Not reported
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	Not reported
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Evaluation Action Summary:

Evaluation date:	04/18/1997
Evaluation:	FOCUSED COMPLIANCE INSPECTION
Area of violation:	Not reported

DOHERTY H E CO INC (Continued) **1000160723**

Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/14/1990
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/02/1990
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Formal Enforcement Agreement or Order
Date achieved compliance: 12/14/1990
Evaluation lead agency: State

Evaluation date: 10/02/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 12/14/1990
Evaluation lead agency: State

FINDS:

Registry ID: 110006816552

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:

Envid:	1000160723
Registry ID:	110006816552
FIPS Code:	25009
EPA Region:	01
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Y
Latitude:	42.77458
Longitude:	-71.08539
Map Icon:	RCRA-IC-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	CENTER OF A FACILITY OR STATION
Accuracy Meters:	30
Derived Tribes:	Not reported
Derived Huc:	01070006
Derived WBD:	Not reported
Derived STCT FPS:	25009
Derived Zip:	01832
Derived CD113:	03
Derived CB2010:	250092601003019

DOHERTY H E CO INC (Continued) **1000160723**

Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	_____
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported

DOHERTY H E CO INC (Continued) **1000160723**

CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	MAD030830657
RCRA Permit Types:	Other
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0
RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110006816552
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

O83 ESE 1/8-1/4 0.205 mi. 1083 ft. | **NO LOCATION AID**
50-54 LOCUST ST AND 56-62 REAR
HAVERHILL, MA 01830

Site 3 of 4 in cluster O

SHWS
INST CONTROL
RELEASE
ENF

S106954052
N/A

Relative: Higher

Actual: 28 ft.

SHWS:

Release Tracking Number/Current Status:	3-0024941 / RAO
Release Town:	HAVERHILL
Notification Date:	06/10/2005
Category:	120 DY
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	01/31/2006
Phase:	Not reported
Response Action Outcome:	B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Oil Or Haz Material:	Oil

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity:	3140 parts per million
Chemical:	C9 THRU C10 AROMATIC HYDROCARBONS
Quantity:	371 parts per million
Chemical:	C11 THRU C22 AROMATIC HYDROCARBONS
Quantity:	2010 parts per million

Actions:

Action Type:	Activity and Use Limitation
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	1/31/2006
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	1/31/2006
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Response Action Outcome - RAO
Action Status:	Fee Received - FMCRA Use Only
Action Date:	2/1/2006
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Activity and Use Limitation
Action Status:	Level I - Technical Screen Audit
Action Date:	3/17/2006
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

NO LOCATION AID (Continued) **S106954052**

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 3/17/2006
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: RLFA
Action Status: FLDD1U
Action Date: 4/21/2010
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation
Action Status: Level II - Audit Inspection
Action Date: 4/21/2010
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: An activity type that is related to an Audit
Action Status: NAFVIO
Action Date: 5/4/2010
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: An activity type that is related to an Audit
Action Status: Interim Deadline Letter Issued
Action Date: 5/4/2010
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 6/10/2005
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 6/10/2005
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 6/23/2005
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation

NO LOCATION AID (Continued) **S106954052**

Action Status:	Amendment Received or Issued
Action Date:	7/9/2010
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number/Current Status:	3-0024942 / RAO
Release Town:	HAVERHILL
Notification Date:	06/10/2005
Category:	120 DY
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	12/13/2005
Phase:	Not reported
Response Action Outcome:	B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.
Oil Or Haz Material:	Hazardous Material

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	LEAD
Quantity:	460 parts per million

Actions:

Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	12/13/2005
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type:	Response Action Outcome - RAO
Action Status:	Fee Received - FMCRA Use Only
Action Date:	12/14/2005
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	6/10/2005
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	6/10/2005
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	6/23/2005
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

NO LOCATION AID (Continued) **S106954052**

INST CONTROL:

Release Tracking Number:	3-0024941
Action Type:	AUL
Action Stat:	AMEND
Action Date:	07/09/2010
Response Action Outcome:	B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number:	3-0024941
Action Type:	AUL
Action Stat:	RECPT
Action Date:	01/31/2006
Response Action Outcome:	B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number:	3-0024941
Action Type:	AUL
Action Stat:	SNAUDI
Action Date:	04/21/2010
Response Action Outcome:	B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number:	3-0024941
Action Type:	AUL
Action Stat:	TSAUD
Action Date:	03/17/2006
Response Action Outcome:	B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release:

Release Tracking Number/Current Status:	3-0024941 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	06/10/2005
Category:	120 DY
Status Date:	01/31/2006
Phase:	Not reported
Response Action Outcome:	B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0024942 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	06/10/2005
Category:	120 DY
Status Date:	12/13/2005
Phase:	Not reported

NO LOCATION AID (Continued) **S106954052**

Response Action Outcome: B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.
Oil / Haz Material Type: Hazardous Material

Click here to access the MA DEP site for this facility:

ENFORCEMENT:

Region:	NERO
DEP Region:	NERO
DEP Program:	3A
DEP Bureau:	BWSC
Program:	BWSC
Program Id:	3-0024941
High Or Low Level Enforcement:	LLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Not reported
Date Executed:	05/04/2010
ENF #:	Not reported
Document Type:	IDL
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	Not reported
Regional Comment:	Not reported
Final Payment Due Date:	Not reported
ACOP $:	Not reported
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	Not reported
Ownership:	Commercially Owned

O84 **SIGN CENTER INC** **RCRA-CESQG** **1004717592**
ESE **40 ORCHARD ST** **FINDS** **MAD985266188**
1/8-1/4 **HAVERHILL, MA 01830** **ECHO**
0.209 mi.
1102 ft. **Site 4 of 4 in cluster O**

Relative:
Higher

Actual:
39 ft.

RCRA-CESQG:

Date form received by agency:	11/30/1987
Facility name:	SIGN CENTER INC
Facility address:	40 ORCHARD ST HAVERHILL, MA 01830
EPA ID:	MAD985266188
Contact:	LEE CARTIER
Contact address:	40 ORCHARD ST HAVERHILL, MA 01830
Contact country:	US
Contact telephone:	(508) 372-3721
Contact email:	Not reported
EPA Region:	01
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar

SIGN CENTER INC (Continued) **1004717592**

month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	SIGN CENTER INC
Owner/operator address:	40 ORCHARD ST HAVERHILL, MA 01830
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	12/08/1991
Owner/Op end date:	Not reported

Owner/operator name:	JAMES S SMITH
Owner/operator address:	40 ORCHARD ST HAVERHILL, MA 01830
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	10/16/2004
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: F003

SIGN CENTER INC (Continued) **1004717592**

. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

FINDS:

Registry ID: 110003483935

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MA-EPICS - Massachussetts Environmental Protection Integrated Computer System

ECHO:

Envid:	1004717592
Registry ID:	110003483935
FIPS Code:	25009
EPA Region:	01
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Y
Latitude:	42.776
Longitude:	-71.08377
Map Icon:	RCRA-IC-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	CENTER OF A FACILITY OR STATION
Accuracy Meters:	30
Derived Tribes:	Not reported
Derived Huc:	01070006
Derived WBD:	Not reported

SIGN CENTER INC (Continued) **1004717592**

Derived STCT FPS:	25009
Derived Zip:	01830
Derived CD113:	03
Derived CB2010:	250092601003014
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Y
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	_____
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported

SIGN CENTER INC (Continued) **1004717592**

CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	MAD985266188
RCRA Permit Types:	CESQG
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0
RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110003483935
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

N85 ENE 1/8-1/4 0.214 mi. 1132 ft. | **FORMER WINTER STREET SCHOOL**
165 WINTER STREET
HAVERHILL, MA 01830

Site 5 of 5 in cluster N

SHWS LAST RELEASE LEAD | **S116756085**
N/A

Relative: Higher

Actual: 74 ft.

SHWS:

Release Tracking Number/Current Status:	3-0032349 / PSNC
Release Town:	HAVERHILL
Notification Date:	08/07/2014
Category:	120 DY
Associated ID:	Not reported
Current Status:	**PSNC**
Status Date:	12/17/2014
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Oil
Source:	AST
Source:	UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	C19 THRU C36 ALIPHATIC HYDROCARBONS
Quantity:	7820 milligrams per kilogram
Chemical:	C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity:	15200 milligrams per kilogram
Chemical:	C9 THRU C10 AROMATIC HYDROCARBONS
Quantity:	421 milligrams per kilogram
Chemical:	C11 THRU C22 AROMATIC HYDROCARBONS
Quantity:	15500 milligrams per kilogram

Actions:

Action Type:	BOL
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	11/17/2014
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Modified Revised or Updated Plan Received
Action Date:	11/20/2014
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Level I - Technical Screen Audit
Action Date:	11/24/2014
Response Action Outcome:	Not reported
Action Type:	Response Action Outcome - RAO
Action Status:	PSNRCD
Action Date:	12/17/2014
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Completion Statement Received
Action Date:	12/17/2014
Response Action Outcome:	Not reported

FORMER WINTER STREET SCHOOL (Continued) **S116756085**

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 8/21/2014
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 8/7/2014
Response Action Outcome: Not reported

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 8/7/2014
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 8/7/2014
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 9/3/2014
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 9/4/2014
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Fee Received - FMCRA Use Only
Action Date: 9/8/2014
Response Action Outcome: Not reported

LAST:
Release Tracking Number/Current Status: 3-0032349 / PSNC
Source Type: AST
Release Town: HAVERHILL
Notification Date: 08/07/2014
Category: 120 DY
Associated ID: Not reported
Status Date: 12/17/2014
Phase: Not reported
Response Action Outcome: -
Oil Or Haz Material: Oil

Chemicals:
Chemical: C19 THRU C36 ALIPHATIC HYDROCARBONS
Quantity: 7820 milligrams per kilogram
Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity: 15200 milligrams per kilogram
Chemical: C9 THRU C10 AROMATIC HYDROCARBONS
Quantity: 421 milligrams per kilogram
Chemical: C11 THRU C22 AROMATIC HYDROCARBONS
Quantity: 15500 milligrams per kilogram

FORMER WINTER STREET SCHOOL (Continued) **S116756085**

Source: AST
Source: UNKNOWN

Actions:

Action Type: BOL
Action Status: Transmittal, Notice, or Notification Received
Action Date: 11/17/2014
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Modified Revised or Updated Plan Received
Action Date: 11/20/2014
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 11/24/2014
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO
Action Status: PSNRCD
Action Date: 12/17/2014
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 12/17/2014
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 8/21/2014
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 8/7/2014
Response Action Outcome: Not reported

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 8/7/2014
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 8/7/2014
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 9/3/2014
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 9/4/2014
Response Action Outcome: Not reported

FORMER WINTER STREET SCHOOL (Continued) **S116756085**

Action Type:	Release Abatement Measure
Action Status:	Fee Received - FMCRA Use Only
Action Date:	9/8/2014
Response Action Outcome:	Not reported

Release:

Release Tracking Number/Current Status:	3-0032349 / PSNC
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	08/07/2014
Category:	120 DY
Status Date:	12/17/2014
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

LEAD:

Community:	Haverhill
Unit:	Not reported
Inspector Name:	Gary Kellner
Inspector License Number:	1981
Activity Type:	INSPECT
Activity Date:	03/09/2015
Start Work Date:	Not reported
Activity Descriptions:	Determination
Outcomes:	Hazards Found

P86
North
1/8-1/4
0.215 mi.
1133 ft.

Relative:
Higher

Actual:
35 ft.

BSS REALTY TRUST **UST** **U003000361**
65 HALE ST **Financial Assurance** **N/A**
HAVERHILL, MA 01830

Site 2 of 3 in cluster P

UST:

Facility:

Facility ID:	5200
Owner Id:	919
Owner:	BSS REALTY TRUST
Owner Address:	79 CONCORD ST
Owner City,St,Zip:	HAVERHILL, MA 01830
Telephone:	(617) 372-8951
Description:	Other
Fire Dept. ID:	9128
Date of Inspection:	Not reported

Tank ID:	1
Serial Number:	Not reported
Tank Status:	**Removed**
Status Date:	Not reported
Date Installed:	05/09/1971
Capacity:	4000

BSS REALTY TRUST (Continued) **U003000361**

Contents:	Diesel
Tank Type:	Not reported
Tank Usage:	Not reported
Tank Material:	Steel
Tank Leak Detection:	Not reported
Pipe Material:	Steel
Pipe Container:	Not reported
Pipe Leak Detection:	Not reported
Above Ground:	No

MA Financial Assurance 2:

Facility Id:	5200
Description:	Other
Work Phone:	(617) 372-8951

P87 **NOONAN J P** **RCRA NonGen / NLR** **1000307249**
North **65 HALE ST** **FINDS** **MAD981207889**
1/8-1/4 **HAVERHILL, MA 01830** **ECHO**
0.215 mi.
1133 ft. **Site 3 of 3 in cluster P**

Relative:
Higher

Actual:
35 ft.

RCRA NonGen / NLR:

Date form received by agency:	09/29/1986
Facility name:	NOONAN J P
Facility address:	65 HALE ST HAVERHILL, MA 01830
EPA ID:	MAD981207889
Contact:	JOHN-PETER NOONAN
Contact address:	65 HALE ST HAVERHILL, MA 01830
Contact country:	US
Contact telephone:	(508) 372-8591
Contact email:	Not reported
EPA Region:	01
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	NOONAN J P
Owner/operator address:	65 HALE ST HAVERHILL, MA 01830
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	12/08/1991
Owner/Op end date:	Not reported

Owner/operator name:	RICHARD SENTER
Owner/operator address:	65 HALE ST HAVERHILL, MA 01830
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	10/16/2004
Owner/Op end date:	Not reported

NOONAN J P (Continued) **1000307249**

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code: D001
. Waste name: IGNITABLE WASTE

Violation Status: No violations found

FINDS:

Registry ID: 110003465517

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MA-EPICS - Massachussetts Environmental Protection Integrated Computer System

ECHO:

Envid:	1000307249
Registry ID:	110003465517
FIPS Code:	25009
EPA Region:	01
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Y
Latitude:	42.78089
Longitude:	-71.08664
Map Icon:	RCRA-IC-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	CENTER OF A FACILITY OR STATION
Accuracy Meters:	30
Derived Tribes:	Not reported
Derived Huc:	01070006
Derived WBD:	Not reported

NOONAN J P (Continued) **1000307249**

Derived STCT FPS:	25009
Derived Zip:	01830
Derived CD113:	03
Derived CB2010:	250092601003001
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	_____
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported

NOONAN J P (Continued) **1000307249**

CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	MAD981207889
RCRA Permit Types:	Other
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0
RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110003465517
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

Q88
NW
1/8-1/4
0.215 mi.
1137 ft.

JOHNS AUTO & TRANSMISSION
29 HILLDALE AVE
HAVERHILL, MA 01832

HW GEN **S112559963**
N/A

Site 1 of 3 in cluster Q

Relative:
Higher

Actual:
25 ft.

HW GEN:

EPA Id:	MV9783720282
RCRA Generator Status:	Not reported
State Generator Status:	VQG-MA

Q89
NW
1/8-1/4
0.215 mi.
1137 ft.

29 HILLDALE AVE
HAVERHILL, MA 01832

EDR Hist Auto **1015391648**
N/A

Site 2 of 3 in cluster Q

Relative:
Higher

Actual:
25 ft.

EDR Historical Auto Stations:

Name:	JOHNS AUTO & TRANSMISSION
Year:	2001
Address:	29 HILLDALE AVE
Name:	JOHNS AUTO & TRANSMISSION
Year:	2002
Address:	29 HILLDALE AVE
Name:	JOHNS AUTO & TRANSMISSION
Year:	2003
Address:	29 HILLDALE AVE
Name:	JOHNS AUTO & TRANSMISSION
Year:	2004
Address:	29 HILLDALE AVE
Name:	JOHNS AUTO & TRANSMISSION
Year:	2009
Address:	29 HILLDALE AVE

90
ESE
1/8-1/4
0.216 mi.
1141 ft.

SIGN CENTER INC
40 ORCHARD ST
HAVERHILL, MA 01830

HW GEN **S112553336**
N/A

Relative:
Higher

Actual:
39 ft.

HW GEN:

EPA Id:	MAD985266188
RCRA Generator Status:	VSQG
State Generator Status:	Not reported

91
NNE
1/8-1/4
0.221 mi.
1166 ft.

NO LOCATION AID
38 LANCASTER ST
HAVERHILL, MA 01830

LUST RELEASE

S105595376
N/A

Relative:
Higher

Actual:
37 ft.

LUST:

Facility:

Release Tracking Number/Current Status:	3-0021953 / RAO
Status Date:	08/28/2002
Source Type:	UST
Release Town:	HAVERHILL
Notification Date:	07/22/2002
Category:	72 HR
Associated ID:	Not reported
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Oil
Location Type:	COMMERCIAL
Source:	UST

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	GASOLINE
Quantity:	160 parts per million
Chemical:	GASOLINE
Quantity:	100 parts per million

Actions:

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	7/22/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	7/22/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	8/15/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	8/28/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	RNF

NO LOCATION AID (Continued) **S105595376**

Action Status: Reportable Release under MGL 21E
Action Date: 8/28/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 8/28/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Release Tracking Number/Current Status: 3-0021953 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 07/22/2002
Category: 72 HR
Status Date: 08/28/2002
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

R92 **BENNETT THE CLEANSER** **DRYCLEANERS** **S106488548**
WNW **7 BROADWAY** **N/A**
1/8-1/4 **HAVERHILL, MA 01832**
0.224 mi.
1184 ft. **Site 1 of 2 in cluster R**

Relative:
Higher

Actual:
30 ft.

DRYCLEANERS:
Facility ID: 294307
Classification Type: Non-applicability classification--still in business but not using perc
Reg Obj Contact: Not reported
Contact First Name: Not reported
Contact Last Name: Not reported
Reg Obj Mail Address: 7 BROADWAY
Mail Town Name: HAVERHILL
Mail Zip Code: 018324758
DEP Region Code: NE

R93 **EDR Hist Cleaner** **1015088060**
WNW **7 BROADWAY** **N/A**
1/8-1/4 **HAVERHILL, MA 01832**
0.224 mi.
1184 ft. **Site 2 of 2 in cluster R**

Relative:
Higher

Actual:
30 ft.

EDR Historical Cleaners:
Name: BENNETT THE CLEANERS
Year: 2002
Address: 7 BROADWAY

S94 SE 1/8-1/4 0.224 mi. 1184 ft. | **UNITRODE COMPUTER PRODUCTS CORP**
86-88 ESSEX ST
HAVERHILL, MA 01830

RCRA NonGen / NLR **1000419901**
FINDS **MAD000844605**
ECHO

Site 1 of 4 in cluster S

Relative: Higher

Actual: 24 ft.

RCRA NonGen / NLR:

Date form received by agency:	08/18/1980
Facility name:	UNITRODE COMPUTER PRODUCTS CORP
Facility address:	86-88 ESSEX ST HAVERHILL, MA 01830
EPA ID:	MAD000844605
Mailing address:	4 GLEASON ST METHUEN, MA 01844
Contact:	KATHRYN DIFRANCESCO
Contact address:	4 GLEASON ST METHUEN, MA 01844
Contact country:	US
Contact telephone:	(508) 686-9451
Contact email:	Not reported
EPA Region:	01
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	UNITRODE COMPUTER PRODUCTS CORPORATION
Owner/operator address:	4 GLEASON ST METHUEN, MA 01844
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	10/16/2004
Owner/Op end date:	Not reported

Owner/operator name:	UNITRODE COMPUTER PRODUCTS CORP
Owner/operator address:	4 GLEASON ST METHUEN, MA 01844
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	03/01/1990
Owner/Op end date:	06/03/1991

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No

UNITRODE COMPUTER PRODUCTS CORP (Continued) **1000419901**

Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: U226
. Waste name: ETHANE, 1,1,1-TRICHLORO- (OR) METHYL CHLOROFORM

Violation Status: No violations found

FINDS:

Registry ID: 110003415527

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:
Envid: 1000419901

UNITRODE COMPUTER PRODUCTS CORP (Continued) **1000419901**

Registry ID:	110003415527
FIPS Code:	25009
EPA Region:	01
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Y
Latitude:	42.77453
Longitude:	-71.08483
Map Icon:	RCRA-IC-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	CENTER OF A FACILITY OR STATION
Accuracy Meters:	30
Derived Tribes:	Not reported
Derived Huc:	01070006
Derived WBD:	Not reported
Derived STCT FPS:	25009
Derived Zip:	01832
Derived CD113:	03
Derived CB2010:	250092601003019
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	_____
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported

UNITRODE COMPUTER PRODUCTS CORP (Continued) **1000419901**

CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	MAD000844605
RCRA Permit Types:	Other
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0
RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported

UNITRODE COMPUTER PRODUCTS CORP (Continued) **1000419901**

GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110003415527
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

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95 **EDR Hist Auto** **1015687785**
NE **98 PRIMROSE** **N/A**
1/8-1/4 **HAVERHILL, MA 01830**
0.225 mi.
1190 ft.

Relative:
Higher

Actual:
63 ft.

EDR Historical Auto Stations:

Name:	HAVERHILL AUTO TRIM
Year:	1999
Address:	98 PRIMROSE

T96 **NO LOCATION AID** **SHWS** **S106954054**
SE **21-25 LOCUST ST** **RELEASE** **N/A**
1/8-1/4 **HAVERHILL, MA 01830**
0.227 mi.
1200 ft. **Site 1 of 6 in cluster T**

Relative:
Lower

Actual:
21 ft.

SHWS:

Release Tracking Number/Current Status:	3-0024943 / RAO
Release Town:	HAVERHILL
Notification Date:	06/10/2005
Category:	120 DY
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	01/27/2006
Phase:	Not reported
Response Action Outcome:	B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.
Oil Or Haz Material:	Hazardous Material

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	TRICHLOROETHENE
Quantity:	1.9 parts per million
Chemical:	TETRACHLOROETHANE
Quantity:	.6 parts per million
Chemical:	VINYL CHLORIDE
Quantity:	.01 parts per million

Actions:

NO LOCATION AID (Continued) **S106954054**

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 1/27/2006
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome - RAO
Action Status: Fee Received - FMCRA Use Only
Action Date: 1/30/2006
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 1/6/2009
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 6/10/2005
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 6/10/2005
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 6/23/2005
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Release:
Release Tracking Number/Current Status: 3-0024943 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 06/10/2005
Category: 120 DY
Status Date: 01/27/2006
Phase: Not reported
Response Action Outcome: B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.
Oil / Haz Material Type: Hazardous Material

Click here to access the MA DEP site for this facility:

Q97
NW
1/8-1/4
0.229 mi.
1207 ft.

37 HILLDALE AVE
HAVERHILL, MA 01832

Site 3 of 3 in cluster Q

EDR Hist Auto **1015452908**
N/A

Relative:
Higher

Actual:
25 ft.

EDR Historical Auto Stations:

Name:	DITONNO & SONS AUTO REPAIR LLC
Year:	2009
Address:	37 HILLDALE AVE
Name:	DITONNO & SONS AUTO REPAIR LLC
Year:	2010
Address:	37 HILLDALE AVE

T98
SE
1/8-1/4
0.230 mi.
1213 ft.

BULLS EYE
17 LOCUST ST
HAVERHILL, MA 01830

Site 2 of 6 in cluster T

RCRA NonGen / NLR **1000322105**
MAD985266154

Relative:
Lower

Actual:
21 ft.

RCRA NonGen / NLR:

Date form received by agency:	08/20/2004
Facility name:	BULLS EYE
Facility address:	17 LOCUST ST HAVERHILL, MA 01830
EPA ID:	MAD985266154
Mailing address:	17 LOCUST ST FLOOR FIVE HAVERHILL, MA 01830
Contact:	DOUGLAS VEINOTTE
Contact address:	17 LOCUST ST FLOOR FIVE HAVERHILL, MA 01830
Contact country:	US
Contact telephone:	(508) 373-0993
Contact email:	Not reported
EPA Region:	01
Land type:	Private
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	BULLS EYE
Owner/operator address:	17 LOCUST ST FLOOR FIVE HAVERHILL, MA 01830
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	06/17/1993
Owner/Op end date:	06/30/1997
Owner/operator name:	DOUGLAS VEINOTTE
Owner/operator address:	17 LOCUST ST FLOOR FIVE HAVERHILL, MA 01830
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/1900

BULLS EYE (Continued) **1000322105**

Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D002
. Waste name: CORROSIVE WASTE

Historical Generators:
Date form received by agency: 03/01/1990
Site name: PRINTED CIRCUIT DESIGN
Classification: Large Quantity Generator

Date form received by agency: 11/18/1987
Site name: BULLS EYE
Classification: Large Quantity Generator

. Waste code: D002
. Waste name: CORROSIVE WASTE

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 03/17/1992
Date achieved compliance: 09/01/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/26/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 03/17/1992
Date achieved compliance: 09/01/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/26/1992

BULLS EYE (Continued) **1000322105**

Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 04/04/1989
Date achieved compliance: 10/12/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/27/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 08/20/2004
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/01/1993
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/01/1993
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/17/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 09/01/1993
Evaluation lead agency: State

Evaluation date: 03/17/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 09/01/1993
Evaluation lead agency: State

Evaluation date: 03/17/1992
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

BULLS EYE (Continued) **1000322105**

Evaluation date: 10/12/1989
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/04/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 10/12/1989
Evaluation lead agency: State

T99 SE 1/8-1/4 0.230 mi. 1213 ft.

PRINTED CIRCUIT DESIGN
17 LOCUST STREET
HAVERHILL, MA 01830

RCRA NonGen / NLR **1000214527**
FINDS **MAD981074552**
ECHO

Site 3 of 6 in cluster T

Relative: Lower

Actual: 21 ft.

RCRA NonGen / NLR:
Date form received by agency: 11/19/1985
Facility name: INTERCORP INC
Facility address: 17 LOCUST ST
HAVERHILL, MA 01831
EPA ID: MAD981074552
Contact: DONALD GREENWOOD
Contact address: 17 LOCUST ST
HAVERHILL, MA 01831
Contact country: US
Contact telephone: (508) 372-0335
Contact email: Not reported
EPA Region: 01
Land type: Private
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: INTERCORP INC
Owner/operator address: 17 LOCUST ST
HAVERHILL, MA 01831
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 03/01/1990
Owner/Op end date: 06/03/1991

Owner/operator name: DONALD GREENWOOD
Owner/operator address: 17 LOCUST ST
HAVERHILL, MA 01831
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 10/16/2004
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No

PRINTED CIRCUIT DESIGN (Continued) **1000214527**

Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D002
. Waste name: CORROSIVE WASTE

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 06/23/1988
Date achieved compliance: 12/01/1990
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/23/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 06/23/1988
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Generators - General
Date achieved compliance: 12/01/1990
Evaluation lead agency: State

FINDS:

Registry ID: 110009590157

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Registry ID: 110002334938

Environmental Interest/Information System
US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that

PRINTED CIRCUIT DESIGN (Continued) **1000214527**

these facilities release directly to air, water, land, or that are transported off-site.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MA-EPICS - Massachussetts Environmental Protection Integrated Computer System

ECHO:

Envid:	1000214527
Registry ID:	110009590157
FIPS Code:	25009
EPA Region:	01
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Y
Latitude:	42.774883
Longitude:	-71.08432
Map Icon:	RCRA-IC-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	ENTRANCE POINT OF A FACILITY OR STATION
Accuracy Meters:	50
Derived Tribes:	Not reported
Derived Huc:	01070006
Derived WBD:	010700061401
Derived STCT FPS:	25009
Derived Zip:	01830
Derived CD113:	03
Derived CB2010:	250092601003024
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	06/23/1988
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N

PRINTED CIRCUIT DESIGN (Continued) **1000214527**

3yr Compliance Status:	_____
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	MAD981074552
RCRA Permit Types:	Other
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0
RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____

PRINTED CIRCUIT DESIGN (Continued) **1000214527**

SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110009590157
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	06/23/1988
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

Envid:	1000214527
Registry ID:	110002334938
FIPS Code:	25009
EPA Region:	01
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Y
Latitude:	42.774883
Longitude:	-71.08432
Map Icon:	RCRA-IC-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	ENTRANCE POINT OF A FACILITY OR STATION
Accuracy Meters:	50
Derived Tribes:	Not reported
Derived Huc:	01070006
Derived WBD:	010700061401
Derived STCT FPS:	25009
Derived Zip:	01830
Derived CD113:	03
Derived CB2010:	250092601003024
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN

PRINTED CIRCUIT DESIGN (Continued) **1000214527**

Inspection Count:	0
Date Last Inspection:	08/20/2004
Days Last Inspection:	4048
Informal Count:	0
Date Last Informal Action:	05/26/1992
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	_____
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported

PRINTED CIRCUIT DESIGN (Continued) **1000214527**

RCRA IDS:	MAD980671820 MAD985266154
RCRA Permit Types:	Other
RCRA NAICS:	334419
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	4048
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0
RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	01831PRNTD17LOC
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Y
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110002334938
Facility SIC Codes:	3672
Facility NAICS Codes:	334419 334412
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	08/20/2004
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	05/26/1992
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

T100 **LOCUST STREET PARKING LOT** **US BROWNFIELDS** **1016456893**
SE **17 LOCUST STREET** **FINDS** **N/A**
1/8-1/4 **HAVERHILL, MA 01830** **ECHO**
0.230 mi.
1213 ft. **Site 4 of 6 in cluster T**

Relative:
Lower

Actual:
21 ft.

US BROWNFIELDS:

Recipient name:	Haverhill, City of
Grant type:	Assessment
Property name:	LOCUST STREET PARKING LOT
Property #:	Block 52, Lots 3&8
Parcel size:	.59
Property Description:	Vacant parcel owned by the City of Haverhill used as a parking lot,

LOCUST STREET PARKING LOT (Continued) **1016456893**

	adjacent to former industrial mill building
Latitude:	42.7748908
Longitude:	-71.0843507
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983
ACRES property ID:	159422
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	2800
Assessment funding source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	EPA
Cleanup funding entity:	Not reported
Grant type:	H
Accomplishment type:	Phase I Environmental Assessment
Accomplishment count:	1
Cooperative agreement #:	97137401
Ownership entity:	Government
Current owner:	City of Haverhill
Did owner change:	N
Cleanup required:	Unknown
Video available:	No
Photo available:	No
Institutional controls required:	U
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Y
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported

LOCUST STREET PARKING LOT (Continued) **1016456893**

Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	.59
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported

LOCUST STREET PARKING LOT (Continued) **1016456893**

Unknown media cleaned up: Not reported
Past Use: Multistory Not reported

FINDS:

Registry ID: 110056365277

Environmental Interest/Information System
US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES) is an federal online database for Brownfields Grantees to electronically submit data directly to EPA.

ECHO:

Envid:	1016456893
Registry ID:	110056365277
FIPS Code:	25009
EPA Region:	01
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Y
Latitude:	42.774883
Longitude:	-71.08432
Map Icon:	NONE-UNK-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	ENTRANCE POINT OF A FACILITY OR STATION
Accuracy Meters:	50
Derived Tribes:	Not reported
Derived Huc:	01070006
Derived WBD:	010700061401
Derived STCT FPS:	25009
Derived Zip:	01830
Derived CD113:	03
Derived CB2010:	250092601003024
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	Not reported
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	Not reported
Programs in SNC:	0
Curr Compliance Status:	Not reported
Curr SNC Flag:	N

LOCUST STREET PARKING LOT (Continued) **1016456893**

3yr Compliance Status:	Not reported
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	Not reported
RCRA Permit Types:	Not reported
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	Not reported
RCRA Curr Compliance Status:	Not reported
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	Not reported

LOCUST STREET PARKING LOT (Continued) **1016456893**

SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110056365277
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

T101 **WINCHELL BUILDING** **CERCLIS-NFRAP** **1003862794**
SE **17 LOCUST STREET** **MAD985277508**
1/8-1/4 **HAVERHILL, MA 01830**
0.230 mi.
1213 ft. **Site 5 of 6 in cluster T**

Relative:
Lower

Actual:
21 ft.

CERCLIS-NFRAP:

Site ID:	0102056
Federal Facility:	Not a Federal Facility
NPL Status:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:

Contact Sequence ID:	1000499.00000
Person ID:	1000074.00000
Contact Sequence ID:	1270567.00000
Person ID:	1000119.00000
Contact Sequence ID:	1334873.00000
Person ID:	1270187.00000

CERCLIS-NFRAP Site Alias Name(s):

Alias Name:	WINCHELL BUILDING SITE
Alias Address:	17 LOCUST STREET HAVERHILL, MA 01830

WINCHELL BUILDING (Continued) **1003862794**

Alias Name: WINCHELL BUILDING
Alias Address: 17 LOCUST STREET
HAVERHILL, MA 018305617

Program Priority:
Description: Environmental Justice Indicator

CERCLIS-NFRAP Assessment History:
Action: Public Notice Published
Date Started: / /
Date Completed: 07/03/95
Priority Level: Not reported

Action: Notice Letters Issued
Date Started: / /
Date Completed: 04/06/95
Priority Level: Not reported

Action: Notice Letters Issued
Date Started: / /
Date Completed: 04/12/90
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 08/13/98
Priority Level: Not reported

Action: ISSUE REQUEST LETTERS (104E)
Date Started: / /
Date Completed: 03/13/91
Priority Level: Not reported

Action: NON-NATIONAL PRIORITIES LIST POTENTIALLY RESPONSIBLE PARTY SEARCH
Date Started: 04/06/95
Date Completed: 02/20/98
Priority Level: Not reported

Action: REMOVAL ASSESSMENT
Date Started: 02/23/95
Date Completed: 03/21/95
Priority Level: Cleaned up

Action: DISCOVERY
Date Started: / /
Date Completed: 01/22/90
Priority Level: Not reported

Action: Notice Letters Issued
Date Started: / /
Date Completed: 02/23/90
Priority Level: Not reported

Action: REMOVAL
Date Started: 01/22/90
Date Completed: 01/24/91

WINCHELL BUILDING (Continued) **1003862794**

Priority Level: Cleaned up

Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 01/24/92
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

Action: NON-NATIONAL PRIORITIES LIST POTENTIALLY RESPONSIBLE PARTY SEARCH
Date Started: 01/11/90
Date Completed: 01/25/94
Priority Level: Search Complete, No Viable PRPs

Action: REMOVAL
Date Started: 05/10/95
Date Completed: 05/26/95
Priority Level: Cleaned up

Action: Public Notice Published
Date Started: / /
Date Completed: 03/30/90
Priority Level: Not reported

T102 **ALTERNATE CIRCUIT TECHNOLOGY INC** **RCRA NonGen / NLR** **1000216549**
SE **17 LOCUST ST** **MAD980671820**
1/8-1/4 **HAVERHILL, MA 01830**
0.230 mi.
1213 ft. **Site 6 of 6 in cluster T**

Relative:
Lower

Actual:
21 ft.

RCRA NonGen / NLR:
Date form received by agency: 10/13/1983
Facility name: ALTERNATE CIRCUIT TECHNOLOGY INC
Facility address: 17 LOCUST ST
HAVERHILL, MA 01830
EPA ID: MAD980671820
Mailing address: P O BOX 1724
HAVERHILL, MA 01830
Contact: WAYNE EWALD
Contact address: P O BOX 1724
HAVERHILL, MA 01830
Contact country: US
Contact telephone: (508) 372-0200
Contact email: Not reported
EPA Region: 01
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: ALTERNATE CIRCUIT TECHNOLOGY I
Owner/operator address: P O BOX 1724
HAVERHILL, MA 01830
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 03/01/1990
Owner/Op end date: 06/03/1991

ALTERNATE CIRCUIT TECHNOLOGY INC (Continued) **1000216549**

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Violation Status: No violations found

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103 SW 1/8-1/4 0.237 mi. 1254 ft. | **RESIDENTIAL PROPERTY**
25 BLAISDELL STREET
HAVERHILL, MA 01843 | **LAST RELEASE** | **S112288346 N/A**

Relative: Higher

Actual: 115 ft.

LAST:

Release Tracking Number/Current Status:	3-0031175 / RAO
Source Type:	AST
Release Town:	HAVERHILL
Notification Date:	10/24/2012
Category:	TWO HR
Associated ID:	Not reported
Status Date:	12/11/2012
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Oil

Chemicals:

Chemical:	#2 FUEL OIL
Quantity:	20 gallons
Chemical:	#2 FUEL OIL
Quantity:	40 gallons
Location Type:	RESIDNTIAL

RESIDENTIAL PROPERTY (Continued) **S112288346**

Source: AST

Actions:

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 10/24/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: FLDISS
Action Date: 10/24/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FLDD1U
Action Date: 10/24/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 10/24/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FLDRUN
Action Date: 10/25/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FLDRAN
Action Date: 11/1/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 11/19/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 11/19/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: BOL
Action Status: Transmittal, Notice, or Notification Received
Action Date: 11/19/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: BOL

RESIDENTIAL PROPERTY (Continued) **S112288346**

Action Status: SHPFAC
Action Date: 11/26/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 11/27/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 11/6/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 12/11/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 12/6/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Release Tracking Number/Current Status: 3-0031175 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 10/24/2012
Category: TWO HR
Status Date: 12/11/2012
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

S104 **HAYES BUILDING PROPERTY** **SHWS** **S108709305**
SE **14 GRANITE ST** **LUST** **N/A**
1/8-1/4 **HAVERHILL, MA 01832** **RELEASE**
0.240 mi. **LEAD**
1268 ft. **Site 2 of 4 in cluster S**

Relative: Higher

Actual: 30 ft.

SHWS:
Release Tracking Number/Current Status: 3-0028733 / RAO
Release Town: HAVERHILL
Notification Date: 09/11/2009
Category: 120 DY
Associated ID: Not reported

HAYES BUILDING PROPERTY (Continued) **S108709305**

Current Status:	**Response Action Outcome**
Status Date:	12/31/2009
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Oil and Hazardous Material
Location Type:	UNKNOWN
Source:	UST
Source:	UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	METHYL TERT-BUTYL ETHER
Quantity:	2.4 milligrams per kilogram
Chemical:	NAPHTHALENE
Quantity:	37.3 milligrams per kilogram
Chemical:	2-METHYLNAPHTHALENE
Quantity:	7.2 milligrams per kilogram
Chemical:	C5 THRU C8 ALIPHATIC HYDROCARBONS
Quantity:	1850 milligrams per kilogram
Chemical:	BENZENE
Quantity:	7.99 milligrams per kilogram
Chemical:	C9 THRU C10 AROMATIC HYDROCARBONS
Quantity:	1060 milligrams per kilogram

Actions:

Action Type:	Response Action Outcome - RAO
Action Status:	Level I - Technical Screen Audit
Action Date:	10/4/2010
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Abatement Measure
Action Status:	Completion Statement Received
Action Date:	12/31/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	12/31/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	9/11/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	9/11/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

HAYES BUILDING PROPERTY (Continued) **S108709305**

Action Type:	Release Abatement Measure
Action Status:	Fee Received - FMCRA Use Only
Action Date:	9/17/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Release Abatement Measure
Action Status:	Written Plan Received
Action Date:	9/17/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Release Abatement Measure
Action Status:	Level I - Technical Screen Audit
Action Date:	9/21/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	9/28/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

LUST:

Facility:

Release Tracking Number/Current Status:	3-0028733 / RAO
Status Date:	12/31/2009
Source Type:	UST
Release Town:	HAVERHILL
Notification Date:	09/11/2009
Category:	120 DY
Associated ID:	Not reported
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Oil and Hazardous Material

Location Type:	UNKNOWN
Source:	UST
Source:	UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	METHYL TERT-BUTYL ETHER
Quantity:	2.4 milligrams per kilogram
Chemical:	NAPHTHALENE
Quantity:	37.3 milligrams per kilogram
Chemical:	2-METHYLNAPHTHALENE
Quantity:	7.2 milligrams per kilogram
Chemical:	C5 THRU C8 ALIPHATIC HYDROCARBONS
Quantity:	1850 milligrams per kilogram

HAYES BUILDING PROPERTY (Continued) **S108709305**

Chemical: BENZENE
Quantity: 7.99 milligrams per kilogram
Chemical: C9 THRU C10 AROMATIC HYDROCARBONS
Quantity: 1060 milligrams per kilogram

Actions:

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 10/4/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 12/31/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 12/31/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 9/11/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 9/11/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Fee Received - FMCRA Use Only
Action Date: 9/17/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 9/17/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 9/21/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 9/28/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

HAYES BUILDING PROPERTY (Continued) **S108709305**

reduced to background.

Release:

Release Tracking Number/Current Status:	3-0028733 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	09/11/2009
Category:	120 DY
Status Date:	12/31/2009
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type:	Oil and Hazardous Material

Click here to access the MA DEP site for this facility:

LEAD:

Community:	Haverhill
Unit:	201
Inspector Name:	Mel Blackman
Inspector License Number:	1377
Activity Type:	INSPECT
Activity Date:	07/31/2010
Start Work Date:	08/10/2010
Activity Descriptions:	Comprehensive Initial Inspection
Outcomes:	Hazards Found

Community:	Haverhill
Unit:	201
Inspector Name:	Mel Blackman
Inspector License Number:	1377
Activity Type:	INSPECT
Activity Date:	08/23/2010
Start Work Date:	08/10/2010
Activity Descriptions:	Final Deleading Reinspection
Outcomes:	Passed

Community:	Haverhill
Unit:	201
Inspector Name:	Mel Blackman
Inspector License Number:	1377
Activity Type:	COMPLIANCE
Activity Date:	08/23/2010
Start Work Date:	08/10/2010
Activity Descriptions:	Letter of Full Deleading Comp
Outcomes:	Issued

Community:	Haverhill
Unit:	202
Inspector Name:	Mel Blackman
Inspector License Number:	1377
Activity Type:	INSPECT
Activity Date:	07/31/2010
Start Work Date:	08/10/2010

HAYES BUILDING PROPERTY (Continued) **S108709305**

Activity Descriptions: Comprehensive Initial Inspection
Outcomes: Hazards Found

Community: Haverhill
Unit: 202
Inspector Name: Mel Blackman
Inspector License Number: 1377
Activity Type: INSPECT
Activity Date: 08/23/2010
Start Work Date: 08/10/2010
Activity Descriptions: Final Deleading Reinspection
Outcomes: Passed

Community: Haverhill
Unit: 202
Inspector Name: Mel Blackman
Inspector License Number: 1377
Activity Type: COMPLIANCE
Activity Date: 08/23/2010
Start Work Date: 08/10/2010
Activity Descriptions: Letter of Full Deleading Comp
Outcomes: Issued

Community: Haverhill
Unit: 203
Inspector Name: Mel Blackman
Inspector License Number: 1377
Activity Type: INSPECT
Activity Date: 07/30/2010
Start Work Date: Not reported
Activity Descriptions: Comprehensive Initial Inspection
Outcomes: Hazards Found

Community: Haverhill
Unit: 203
Inspector Name: Mel Blackman
Inspector License Number: 1377
Activity Type: COMPLIANCE
Activity Date: 07/30/2010
Start Work Date: Not reported
Activity Descriptions: Letter of Full Initial Insp Comp
Outcomes: Issued

Community: Haverhill
Unit: 204
Inspector Name: Mel Blackman
Inspector License Number: 1377
Activity Type: INSPECT
Activity Date: 07/31/2010
Start Work Date: 08/10/2010
Activity Descriptions: Comprehensive Initial Inspection
Outcomes: Hazards Found

Community: Haverhill
Unit: 204
Inspector Name: Mel Blackman
Inspector License Number: 1377

HAYES BUILDING PROPERTY (Continued) **S108709305**

Activity Type:	INSPECT
Activity Date:	08/23/2010
Start Work Date:	08/10/2010
Activity Descriptions:	Final Deleading Reinspection
Outcomes:	Passed

Click this hyperlink while viewing on your computer to access
160 additional MA LEAD: record(s) in the EDR Site Report.

S105
SE
1/8-1/4
0.240 mi.
1268 ft.

HAYES BUILDING
14-44 GRANITE STREET
HAVERHILL, MA 01832

US BROWNFIELDS **1012131054**
N/A

Site 3 of 4 in cluster S

Relative:
Higher

Actual:
30 ft.

US BROWNFIELDS:

Recipient name:	Planning Office for Urban Affairs, Inc.
Grant type:	Cleanup
Property name:	HAYES BUILDING
Property #:	Lots 12, 13, 14
Parcel size:	.97
Property Description:	The Site consists of three parcels of land totaling an estimated 0.97 acres located along Granite Street in Haverhill, Massachusetts. The Hayes Building built prior to 1886 is approximately 94,027-square feet and is located along the south side of Granite Street. The paved parking lot parcel is located at the southeast side of the intersection of Granite Street and Essex Street. Historically, the Hayes Building had a myriad of different industrial uses and tenants over the years. The Varney & Hayes Building approximately early 1880s until 1893 appeared to be a planning and paper box manufacturing company shoe boxes. The Clark & Dow building which was located next to the Varney & Hayes Building, before they became just the Hayes Building, appeared to be a tack and wire nail manufacturing company. The Hayes Building was used as a paper box manufacturing company until Western Electric Company owned it in approximately the mid-1900s. The Western Electric Company was an electrical equipment manufacturer. Other known tenants in the Hayes Building are Applied Circuits, A.Z.C.O. Chemical Company, CFR Associates, Emtek Company, Columbia Leather Finish Company, and Frank P Elliott Photo. The northeast portion of the Site has historically been the location of a former Sunoco Station. Local records indicate this gas station was in operation from the 1930s until approximately 1978, when the gas station was demolished. Reportedly, the former gas station was converted to a parking lot in 1978. The northeastern section of the Site is currently used as asphalt-paved parking lot, which occupies approximately half of the Site. The Hayes Building occupies the southwestern section of the Site. Whittier Health Network recenly used the Site for storage for medical/convalescent equipment, supplies, and paper files. A single tenant piano repair/sales business occupied a space on the ground floor at the northeast end of the building.
Latitude:	42.77435
Longitude:	-71.08495
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	World Geodetic System of 1984
ACRES property ID:	92791

HAYES BUILDING (Continued) **1012131054**

Start date:	06/01/2009 00:00:00
Completed date:	12/31/2009 00:00:00
Acres cleaned up:	.15
Cleanup funding:	200000
Cleanup funding source:	US EPA - Brownfields Cleanup Cooperative Agreement
Assessment funding:	Not reported
Assessment funding source:	Not reported
Redevelopment funding:	4557370
Redev. funding source:	State/Tribal Funding (non-section 128(a))
Redev. funding entity name:	State Loans
Redevelopment start date:	09/14/2009 00:00:00
Assessment funding entity:	Not reported
Cleanup funding entity:	Not reported
Grant type:	B
Accomplishment type:	Not reported
Accomplishment count:	0
Cooperative agreement #:	97195601
Ownership entity:	Private
Current owner:	Planning Office for Urban Affairs, Inc.
Did owner change:	Y
Cleanup required:	Yes
Video available:	No
Photo available:	No
Institutional controls required:	N
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	No
State/tribal program date:	09/17/2009 00:00:00
State/tribal program ID:	3-28737
State/tribal NFA date:	08/25/2010 00:00:00
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Y

HAYES BUILDING (Continued) **1012131054**

Petro products cleaned:	Y
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Y
Surface water cleaned:	Not reported
VOCs found:	Y
VOCs cleaned:	Y
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	165
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	.07
Past use industrial acreage:	.9
Future use greenspace acreage:	Not reported
Future use residential acreage:	.9
Future use commercial acreage:	.07
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Y
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported

Recipient name:	Planning Office for Urban Affairs, Inc.
Grant type:	Cleanup
Property name:	HAYES BUILDING
Property #:	Lots 12, 13, 14
Parcel size:	.97

HAYES BUILDING (Continued) **1012131054**

Property Description:	The Site consists of three parcels of land totaling an estimated 0.97 acres located along Granite Street in Haverhill, Massachusetts. The Hayes Building built prior to 1886 is approximately 94,027-square feet and is located along the south side of Granite Street. The paved parking lot parcel is located at the southeast side of the intersection of Granite Street and Essex Street. Historically, the Hayes Building had a myriad of different industrial uses and tenants over the years. The Varney & Hayes Building approximately early 1880s until 1893 appeared to be a planning and paper box manufacturing company shoe boxes. The Clark & Dow building which was located next to the Varney & Hayes Building, before they became just the Hayes Building, appeared to be a tack and wire nail manufacturing company. The Hayes Building was used as a paper box manufacturing company until Western Electric Company owned it in approximately the mid-1900s. The Western Electric Company was an electrical equipment manufacturer. Other known tenants in the Hayes Building are Applied Circuits, A.Z.C.O. Chemical Company, CFR Associates, Emtek Company, Columbia Leather Finish Company, and Frank P Elliott Photo. The northeast portion of the Site has historically been the location of a former Sunoco Station. Local records indicate this gas station was in operation from the 1930s until approximately 1978, when the gas station was demolished. Reportedly, the former gas station was converted to a parking lot in 1978. The northeastern section of the Site is currently used as asphalt-paved parking lot, which occupies approximately half of the Site. The Hayes Building occupies the southwestern section of the Site. Whittier Health Network recenly used the Site for storage for medical/convalescent equipment, supplies, and paper files. A single tenant piano repair/sales business occupied a space on the ground floor at the northeast end of the building.
Latitude:	42.77435
Longitude:	-71.08495
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	World Geodetic System of 1984
ACRES property ID:	92791
Start date:	06/01/2009 00:00:00
Completed date:	12/31/2009 00:00:00
Acres cleaned up:	.15
Cleanup funding:	200000
Cleanup funding source:	US EPA - Brownfields Cleanup Cooperative Agreement
Assessment funding:	Not reported
Assessment funding source:	Not reported
Redevelopment funding:	530000
Redev. funding source:	Private/Other Funding
Redev. funding entity name:	Grants
Redevelopment start date:	09/14/2009 00:00:00
Assessment funding entity:	Not reported
Cleanup funding entity:	Not reported
Grant type:	B
Accomplishment type:	Not reported
Accomplishment count:	0
Cooperative agreement #:	97195601
Ownership entity:	Private
Current owner:	Planning Office for Urban Affairs, Inc.
Did owner change:	Y

HAYES BUILDING (Continued) **1012131054**

Cleanup required:	Yes
Video available:	No
Photo available:	No
Institutional controls required:	N
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	No
State/tribal program date:	09/17/2009 00:00:00
State/tribal program ID:	3-28737
State/tribal NFA date:	08/25/2010 00:00:00
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Y
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Y
Surface water cleaned:	Not reported
VOCs found:	Y
VOCs cleaned:	Y
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	165
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	.07
Past use industrial acreage:	.9
Future use greenspace acreage:	Not reported
Future use residential acreage:	.9
Future use commercial acreage:	.07
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Y

HAYES BUILDING (Continued) **1012131054**

Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported

Recipient name:	Haverhill, City of
Grant type:	Assessment
Property name:	HAYES BUILDING
Property #:	Lots 12, 13, 14
Parcel size:	.97
Property Description:	The Site consists of three parcels of land totaling an estimated 0.97 acres located along Granite Street in Haverhill, Massachusetts. The Hayes Building built prior to 1886 is approximately 94,027-square feet and is located along the south side of Granite Street. The paved parking lot parcel is located at the southeast side of the intersection of Granite Street and Essex Street. Historically, the Hayes Building had a myriad of different industrial uses and tenants over the years. The Varney & Hayes Building approximately early 1880s until 1893 appeared to be a planning and paper box manufacturing company shoe boxes. The Clark & Dow building which was located next to the Varney & Hayes Building, before they became just the Hayes Building, appeared to be a tack and wire nail manufacturing company. The Hayes Building was used as a paper box manufacturing company until Western Electric Company owned it in approximately the mid-1900s. The Western Electric Company was an electrical equipment manufacturer. Other known tenants in the Hayes Building are Applied Circuits, A.Z.C.O. Chemical Company, CFR Associates, Emtek Company, Columbia Leather Finish Company, and Frank P Elliott Photo. The northeast portion of the Site has historically been the location of a former Sunoco Station. Local records indicate this gas station was in

HAYES BUILDING (Continued) **1012131054**

operation from the 1930s until approximately 1978, when the gas station was demolished. Reportedly, the former gas station was converted to a parking lot in 1978. The northeastern section of the Site is currently used as asphalt-paved parking lot, which occupies approximately half of the Site. The Hayes Building occupies the southwestern section of the Site. Whittier Health Network recenly used the Site for storage for medical/convalescent equipment, supplies, and paper files. A single tenant piano repair/sales business occupied a space on the ground floor at the northeast end of the building.

Latitude:	42.77435
Longitude:	-71.08495
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	World Geodetic System of 1984
ACRES property ID:	92791
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	3792
Assessment funding source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	EPA
Cleanup funding entity:	Not reported
Grant type:	B
Accomplishment type:	Phase I Environmental Assessment
Accomplishment count:	1
Cooperative agreement #:	97137401
Ownership entity:	Private
Current owner:	Planning Office for Urban Affairs, Inc.
Did owner change:	Y
Cleanup required:	Yes
Video available:	No
Photo available:	No
Institutional controls required:	N
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	No
State/tribal program date:	09/17/2009 00:00:00
State/tribal program ID:	3-28737
State/tribal NFA date:	08/25/2010 00:00:00
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported

HAYES BUILDING (Continued) **1012131054**

Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Y
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Y
Surface water cleaned:	Not reported
VOCs found:	Y
VOCs cleaned:	Y
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	.07
Past use industrial acreage:	.9
Future use greenspace acreage:	Not reported
Future use residential acreage:	.9
Future use commercial acreage:	.07
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Y
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported

HAYES BUILDING (Continued) **1012131054**

Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported

Recipient name:	Haverhill, City of
Grant type:	Assessment
Property name:	HAYES BUILDING
Property #:	Lots 12, 13, 14
Parcel size:	.97
Property Description:	The Site consists of three parcels of land totaling an estimated 0.97 acres located along Granite Street in Haverhill, Massachusetts. The Hayes Building built prior to 1886 is approximately 94,027-square feet and is located along the south side of Granite Street. The paved parking lot parcel is located at the southeast side of the intersection of Granite Street and Essex Street. Historically, the Hayes Building had a myriad of different industrial uses and tenants over the years. The Varney & Hayes Building approximately early 1880s until 1893 appeared to be a planning and paper box manufacturing company shoe boxes. The Clark & Dow building which was located next to the Varney & Hayes Building, before they became just the Hayes Building, appeared to be a tack and wire nail manufacturing company. The Hayes Building was used as a paper box manufacturing company until Western Electric Company owned it in approximately the mid-1900s. The Western Electric Company was an electrical equipment manufacturer. Other known tenants in the Hayes Building are Applied Circuits, A.Z.C.O. Chemical Company, CFR Associates, Emtek Company, Columbia Leather Finish Company, and Frank P Elliott Photo. The northeast portion of the Site has historically been the location of a former Sunoco Station. Local records indicate this gas station was in operation from the 1930s until approximately 1978, when the gas station was demolished. Reportedly, the former gas station was converted to a parking lot in 1978. The northeastern section of the Site is currently used as asphalt-paved parking lot, which occupies approximately half of the Site. The Hayes Building occupies the southwestern section of the Site. Whittier Health Network recenly used the Site for storage for medical/convalescent equipment, supplies, and paper files. A single tenant piano repair/sales business occupied a space on the ground floor at the northeast end of the building.
Latitude:	42.77435
Longitude:	-71.08495
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	World Geodetic System of 1984
ACRES property ID:	92791
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported

HAYES BUILDING (Continued) **1012131054**

Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	60000
Assessment funding source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	EPA
Cleanup funding entity:	Not reported
Grant type:	B
Accomplishment type:	Phase II Environmental Assessment
Accomplishment count:	0
Cooperative agreement #:	97137401
Ownership entity:	Private
Current owner:	Planning Office for Urban Affairs, Inc.
Did owner change:	Y
Cleanup required:	Yes
Video available:	No
Photo available:	No
Institutional controls required:	N
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	No
State/tribal program date:	09/17/2009 00:00:00
State/tribal program ID:	3-28737
State/tribal NFA date:	08/25/2010 00:00:00
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Y
Sediments found:	Not reported
Sediments cleaned:	Not reported

HAYES BUILDING (Continued) **1012131054**

Soil affected:	Y
Soil cleaned up:	Y
Surface water cleaned:	Not reported
VOCs found:	Y
VOCs cleaned:	Y
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	.07
Past use industrial acreage:	.9
Future use greenspace acreage:	Not reported
Future use residential acreage:	.9
Future use commercial acreage:	.07
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Y
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported

Recipient name:	Planning Office for Urban Affairs, Inc.
Grant type:	Cleanup
Property name:	HAYES BUILDING
Property #:	Lots 12, 13, 14
Parcel size:	.97
Property Description:	The Site consists of three parcels of land totaling an estimated 0.97 acres located along Granite Street in Haverhill, Massachusetts. The Hayes Building built prior to 1886 is approximately 94,027-square

HAYES BUILDING (Continued) **1012131054**

feet and is located along the south side of Granite Street. The paved parking lot parcel is located at the southeast side of the intersection of Granite Street and Essex Street. Historically, the Hayes Building had a myriad of different industrial uses and tenants over the years. The Varney & Hayes Building approximately early 1880s until 1893 appeared to be a planning and paper box manufacturing company shoe boxes. The Clark & Dow building which was located next to the Varney & Hayes Building, before they became just the Hayes Building, appeared to be a tack and wire nail manufacturing company. The Hayes Building was used as a paper box manufacturing company until Western Electric Company owned it in approximately the mid-1900s. The Western Electric Company was an electrical equipment manufacturer. Other known tenants in the Hayes Building are Applied Circuits, A.Z.C.O. Chemical Company, CFR Associates, Emtek Company, Columbia Leather Finish Company, and Frank P Elliott Photo. The northeast portion of the Site has historically been the location of a former Sunoco Station. Local records indicate this gas station was in operation from the 1930s until approximately 1978, when the gas station was demolished. Reportedly, the former gas station was converted to a parking lot in 1978. The northeastern section of the Site is currently used as asphalt-paved parking lot, which occupies approximately half of the Site. The Hayes Building occupies the southwestern section of the Site. Whittier Health Network recenly used the Site for storage for medical/convalescent equipment, supplies, and paper files. A single tenant piano repair/sales business occupied a space on the ground floor at the northeast end of the building.

Latitude:	42.77435
Longitude:	-71.08495
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	World Geodetic System of 1984
ACRES property ID:	92791
Start date:	06/01/2009 00:00:00
Completed date:	12/31/2009 00:00:00
Acres cleaned up:	.15
Cleanup funding:	200000
Cleanup funding source:	US EPA - Brownfields Cleanup Cooperative Agreement
Assessment funding:	Not reported
Assessment funding source:	Not reported
Redevelopment funding:	14386443
Redev. funding source:	Private/Other Funding
Redev. funding entity name:	Private Equity / Private Mortgage
Redevelopment start date:	09/14/2009 00:00:00
Assessment funding entity:	Not reported
Cleanup funding entity:	Not reported
Grant type:	B
Accomplishment type:	Not reported
Accomplishment count:	0
Cooperative agreement #:	97195601
Ownership entity:	Private
Current owner:	Planning Office for Urban Affairs, Inc.
Did owner change:	Y
Cleanup required:	Yes
Video available:	No
Photo available:	No

HAYES BUILDING (Continued) **1012131054**

Institutional controls required:	N
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	No
State/tribal program date:	09/17/2009 00:00:00
State/tribal program ID:	3-28737
State/tribal NFA date:	08/25/2010 00:00:00
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Y
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Y
Surface water cleaned:	Not reported
VOCs found:	Y
VOCs cleaned:	Y
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	165
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	.07
Past use industrial acreage:	.9
Future use greenspace acreage:	Not reported
Future use residential acreage:	.9
Future use commercial acreage:	.07
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Y
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported

HAYES BUILDING (Continued) **1012131054**

Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported

Recipient name:	Planning Office for Urban Affairs, Inc.
Grant type:	Cleanup
Property name:	HAYES BUILDING
Property #:	Lots 12, 13, 14
Parcel size:	.97
Property Description:	The Site consists of three parcels of land totaling an estimated 0.97 acres located along Granite Street in Haverhill, Massachusetts. The Hayes Building built prior to 1886 is approximately 94,027-square feet and is located along the south side of Granite Street. The paved parking lot parcel is located at the southeast side of the intersection of Granite Street and Essex Street. Historically, the Hayes Building had a myriad of different industrial uses and tenants over the years. The Varney & Hayes Building approximately early 1880s until 1893 appeared to be a planning and paper box manufacturing company shoe boxes. The Clark & Dow building which was located next to the Varney & Hayes Building, before they became just the Hayes Building, appeared to be a tack and wire nail manufacturing company. The Hayes Building was used as a paper box manufacturing company until Western Electric Company owned it in approximately the mid-1900s. The Western Electric Company was an electrical equipment manufacturer. Other known tenants in the Hayes Building are Applied Circuits, A.Z.C.O. Chemical Company, CFR Associates, Emtek Company, Columbia Leather Finish Company, and Frank P Elliott Photo. The northeast portion of the Site has historically been the location of a former Sunoco Station. Local records indicate this gas station was in operation from the 1930s until approximately 1978, when the gas station was demolished. Reportedly, the former gas station was converted to a parking lot in 1978. The northeastern section of the

HAYES BUILDING (Continued) **1012131054**

Site is currently used as asphalt-paved parking lot, which occupies approximately half of the Site. The Hayes Building occupies the southwestern section of the Site. Whittier Health Network recenly used the Site for storage for medical/convalescent equipment, supplies, and paper files. A single tenant piano repair/sales business occupied a space on the ground floor at the northeast end of the building.

Latitude:	42.77435
Longitude:	-71.08495
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	World Geodetic System of 1984
ACRES property ID:	92791
Start date:	06/01/2009 00:00:00
Completed date:	12/31/2009 00:00:00
Acres cleaned up:	.15
Cleanup funding:	200000
Cleanup funding source:	US EPA - Brownfields Cleanup Cooperative Agreement
Assessment funding:	Not reported
Assessment funding source:	Not reported
Redevelopment funding:	800000
Redev. funding source:	Other Federal Funding
Redev. funding entity name:	HOME
Redevelopment start date:	09/14/2009 00:00:00
Assessment funding entity:	Not reported
Cleanup funding entity:	Not reported
Grant type:	B
Accomplishment type:	Not reported
Accomplishment count:	0
Cooperative agreement #:	97195601
Ownership entity:	Private
Current owner:	Planning Office for Urban Affairs, Inc.
Did owner change:	Y
Cleanup required:	Yes
Video available:	No
Photo available:	No
Institutional controls required:	N
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	No
State/tribal program date:	09/17/2009 00:00:00
State/tribal program ID:	3-28737
State/tribal NFA date:	08/25/2010 00:00:00
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported

HAYES BUILDING (Continued) **1012131054**

Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Y
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Y
Surface water cleaned:	Not reported
VOCs found:	Y
VOCs cleaned:	Y
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	165
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	.07
Past use industrial acreage:	.9
Future use greenspace acreage:	Not reported
Future use residential acreage:	.9
Future use commercial acreage:	.07
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Y
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported

HAYES BUILDING (Continued) **1012131054**

Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported

S106
SE
1/8-1/4
0.240 mi.
1268 ft.

HAYES BUILDING
14-44 GRANITE ST
HAVERHILL, MA 01832

Site 4 of 4 in cluster S

SHWS **S109948707**
LUST **N/A**
RELEASE
ENF

Relative:
Higher

Actual:
30 ft.

SHWS:

Release Tracking Number/Current Status:	3-0028737 / RAO
Release Town:	HAVERHILL
Notification Date:	09/17/2009
Category:	TWO HR
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	08/25/2010
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Not reported
Location Type:	INDUSTRIAL
Location Type:	FUTUR RE
Location Type:	PRIVPROP
Location Type:	SIDENTIAL
Source:	TRANSFMRS
Source:	TRANSFORM
Source:	THREE

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	TRANSFORMER OIL NON PCB
Quantity:	174 gallons

Actions:

Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	1/18/2010
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	10/15/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	11/11/2009

HAYES BUILDING (Continued) **S109948707**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 11/11/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 11/11/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 11/12/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 5/2/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Compliance and Enforcement Action
Action Status: ACOP
Action Date: 7/2/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: ALSENT
Action Date: 7/8/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Compliance and Enforcement Action
Action Status: ACOP
Action Date: 8/17/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 8/25/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 9/17/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

HAYES BUILDING (Continued) **S109948707**

Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	9/17/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	9/17/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	9/17/2010
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	RLFA
Action Status:	FLDD1A
Action Date:	9/23/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Release Tracking Number/Current Status:	3-0028983 / RAO
Release Town:	HAVERHILL
Notification Date:	12/31/2009
Category:	120 DY
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	07/12/2010
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Oil and Hazardous Material
Location Type:	UNKNOWN
Source:	UST
Source:	UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	C19 THRU C36 ALIPHATIC HYDROCARBONS
Quantity:	6900 milligrams per kilogram
Chemical:	C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity:	2400 milligrams per kilogram
Chemical:	C9 THRU C10 AROMATIC HYDROCARBONS
Quantity:	380 milligrams per kilogram
Chemical:	ACENAPHTHENE
Quantity:	15 milligrams per kilogram
Chemical:	ACENAPHTHYLENE
Quantity:	4.2 milligrams per kilogram
Chemical:	C11 THRU C22 AROMATIC HYDROCARBONS
Quantity:	5900 milligrams per kilogram
Chemical:	NAPHTHALENE

HAYES BUILDING (Continued) **S109948707**

Quantity: 18 milligrams per kilogram
Chemical: 2-METHYLNAPHTHALENE
Quantity: 9.8 milligrams per kilogram
Chemical: PHENANTHRENE
Quantity: 14 milligrams per kilogram

Actions:

Action Type: Release Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 1/11/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 1/19/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 1/6/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 12/31/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 12/31/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 4/5/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 7/12/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

LUST:

Facility:
Release Tracking Number/Current Status: 3-0028983 / RAO
Status Date: 07/12/2010
Source Type: UST
Release Town: HAVERHILL
Notification Date: 12/31/2009

HAYES BUILDING (Continued) **S109948707**

Category:	120 DY
Associated ID:	Not reported
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Oil and Hazardous Material
Location Type:	UNKNOWN
Source:	UST
Source:	UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	C19 THRU C36 ALIPHATIC HYDROCARBONS
Quantity:	6900 milligrams per kilogram
Chemical:	C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity:	2400 milligrams per kilogram
Chemical:	C9 THRU C10 AROMATIC HYDROCARBONS
Quantity:	380 milligrams per kilogram
Chemical:	ACENAPHTHENE
Quantity:	15 milligrams per kilogram
Chemical:	ACENAPHTHYLENE
Quantity:	4.2 milligrams per kilogram
Chemical:	C11 THRU C22 AROMATIC HYDROCARBONS
Quantity:	5900 milligrams per kilogram
Chemical:	NAPHTHALENE
Quantity:	18 milligrams per kilogram
Chemical:	2-METHYLNAPHTHALENE
Quantity:	9.8 milligrams per kilogram
Chemical:	PHENANTHRENE
Quantity:	14 milligrams per kilogram

Actions:

Action Type:	Release Abatement Measure
Action Status:	Level I - Technical Screen Audit
Action Date:	1/11/2010
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	1/19/2010
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Abatement Measure
Action Status:	Written Plan Received
Action Date:	1/6/2010
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	12/31/2009

HAYES BUILDING (Continued) **S109948707**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 12/31/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 4/5/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 7/12/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Release Tracking Number/Current Status: 3-0028737 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 09/17/2009
Category: TWO HR
Status Date: 08/25/2010
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Not reported

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status: 3-0028983 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 12/31/2009
Category: 120 DY
Status Date: 07/12/2010
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Oil and Hazardous Material

Click here to access the MA DEP site for this facility:

ENFORCEMENT:
Region: NERO
DEP Region: NERO
DEP Program: 3E
DEP Bureau: BWSC

HAYES BUILDING (Continued) **S109948707**

Program:	Not reported
Program Id:	3-0028737
High Or Low Level Enforcement:	HLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Not reported
Date Executed:	08/17/2010
ENF #:	ACOP-NE-10-3E001
Document Type:	ACOP
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	Y
Regional Comment:	Not reported
Final Payment Due Date:	09/17/2010
ACOP $:	7500
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	17446
Ownership:	Commercially Owned

Region:	NERO
DEP Region:	NERO
DEP Program:	3E
DEP Bureau:	BWSC
Program:	Not reported
Program Id:	3-0028737
High Or Low Level Enforcement:	HLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Not reported
Date Executed:	07/02/2010
ENF #:	ACOP-NE-10-3E002
Document Type:	ACOP
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	Y
Regional Comment:	Not reported
Final Payment Due Date:	08/11/2010
ACOP $:	1500
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	10860
Ownership:	Commercially Owned

U107 NORTHEAST QUALITY PRODUCTS CO INC **RCRA NonGen / NLR** **1004717574**
SSE 18 GRANITE ST **MAD982756124**
1/8-1/4 HAVERHILL, MA 01831
0.241 mi.
1270 ft. **Site 1 of 2 in cluster U**

Relative: Higher

Actual: 31 ft.

RCRA NonGen / NLR:

Date form received by agency:	09/17/2004
Facility name:	NORTHEAST QUALITY PRODUCTS CO INC
Facility address:	18 GRANITE ST HAVERHILL, MA 01831
EPA ID:	MAD982756124
Mailing address:	18 GRANITE ST PO BOX 160 HAVERHILL, MA 018310000
Contact:	FRANCIS CALLAHAN
Contact address:	18 GRANITE ST PO BOX 160 HAVERHILL, MA 018310000
Contact country:	US
Contact telephone:	(508) 374-6054
Contact email:	Not reported
EPA Region:	01
Land type:	Private
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	NORTHEAST QUALITY PRODUCTS
Owner/operator address:	18 GRANITE ST PO BOX 160 HAVERHILL, MA 01831
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	10/16/2004
Owner/Op end date:	Not reported

Owner/operator name:	NORTHEAST QUALITY PRODUCTS
Owner/operator address:	18 GRANITE ST PO BOX 160 HAVERHILL, MA 01831
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	10/16/2004
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No

NORTHEAST QUALITY PRODUCTS CO INC (Continued) **1004717574**

Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 12/27/1988
Site name: NORTHEAST QUALITY PRODUCTS CO INC
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D011
. Waste name: SILVER

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 09/17/2004
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

V108
NW
1/8-1/4
0.241 mi.
1272 ft.

Relative:
Higher

Actual:
25 ft.

MERRIMACK VALLEY TIRE INC **UST** **U003000402**
45 HILLDALE AVE **Financial Assurance** **N/A**
HAVERHILL, MA 01832 **HW GEN**

Site 1 of 2 in cluster V

UST:

Facility:
Facility ID: 5217
Owner Id: 3958
Owner: JEANNE LEBLANC
Owner Address: 45 HILLDALE AVE
Owner City,St,Zip: HAVERHILL, MA 01832
Telephone: (508) 373-3561
Description: Other
Fire Dept. ID: 9128
Date of Inspection: Not reported

Tank ID: 1
Serial Number: H004398
Tank Status: Removed
Status Date: 03/01/1996
Date Installed: 04/01/1983
Capacity: 5000

MERRIMACK VALLEY TIRE INC (Continued) **U003000402**

Contents:	Fuel Oil
Tank Type:	Not reported
Tank Usage:	Not reported
Tank Material:	Steel
Tank Leak Detection:	Inventory Record-Keeping
Pipe Material:	Steel
Pipe Container:	2 Walls
Pipe Leak Detection:	Not reported
Above Ground:	No

Tank ID:	2
Serial Number:	F287447
Tank Status:	**Removed**
Status Date:	03/01/1996
Date Installed:	04/01/1983
Capacity:	4000
Contents:	Gasoline
Tank Type:	Not reported
Tank Usage:	MV
Tank Material:	Steel
Tank Leak Detection:	Inventory Record-Keeping
Pipe Material:	Steel
Pipe Container:	2 Walls
Pipe Leak Detection:	Not reported
Above Ground:	No

MA Financial Assurance 2:

Facility Id:	5217
Description:	Other
Work Phone:	(508) 373-3561

HW GEN:

EPA Id:	MV9783733561
RCRA Generator Status:	Not reported
State Generator Status:	VQG-MA

V109 **EDR Hist Auto** **1015501347**
NW **45 HILLDALE AVE** **N/A**
1/8-1/4 **HAVERHILL, MA 01832**
0.241 mi.
1272 ft. **Site 2 of 2 in cluster V**

Relative:
Higher

Actual:
25 ft.

EDR Historical Auto Stations:

Name:	MERRIMACK VALLEY TIRE INC
Year:	2001
Address:	45 HILLDALE AVE
Name:	MERRIMACK VALLEY TIRE INC
Year:	2010
Address:	45 HILLDALE AVE
Name:	MERRIMACK VALLEY TIRE INC
Year:	2011
Address:	45 HILLDALE AVE
Name:	MERRIMACK VALLEY TIRE INC

(Continued) **1015501347**

Year: 2012
Address: 45 HILLDALE AVE

110
ENE
1/8-1/4
0.244 mi.
1289 ft.

27 CHARLES ST
HAVERHILL, MA 01830

EDR Hist Cleaner **1015031655**
N/A

Relative:
Higher

Actual:
77 ft.

EDR Historical Cleaners:

Name: CHARLES ST LAUNDRY
Year: 1999
Address: 27 CHARLES ST

Name: CHARLES ST LAUNDRY
Year: 2000
Address: 27 CHARLES ST

Name: CHARLES STREET LAUNDRY
Year: 2002
Address: 27 CHARLES ST

Name: CHARLES STREET LAUNDRY
Year: 2003
Address: 27 CHARLES ST

Name: CHARLES STREET LAUNDRY
Year: 2006
Address: 27 CHARLES ST

Name: CHARLES STREET LAUNDRY
Year: 2007
Address: 27 CHARLES ST

U111
SE
1/4-1/2
0.254 mi.
1340 ft.

SERVICE STATION FMR
ESSEX ST GRANITE ST
HAVERHILL, MA 01830

Site 2 of 2 in cluster U

SHWS **S105199207**
RELEASE **N/A**

Relative:
Higher

Actual:
27 ft.

SHWS:

Release Tracking Number/Current Status:	3-0000178 / DEPNDS
Release Town:	HAVERHILL
Notification Date:	01/15/1987
Category:	NONE
Associated ID:	Not reported
Current Status:	**Not a Disposal Site (DEP)**
Status Date:	05/16/1996
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Not reported

Click here to access the MA DEP site for this facility:

SERVICE STATION FMR (Continued) **S105199207**

Chemicals:
Chemical: UNKNOWN
Quantity: Not reported

Actions:
Action Type: Release Disposition
Action Status: Valid Transition Site
Action Date: 1/15/1987
Response Action Outcome: Not reported

Action Type: TREGS
Action Status: DEPNDS
Action Date: 5/16/1996
Response Action Outcome: Not reported

Release:
Release Tracking Number/Current Status: 3-0000178 / DEPNDS
Primary ID: Not reported
Official City: HAVERHILL
Notification: 01/15/1987
Category: NONE
Status Date: 05/16/1996
Phase: Not reported
Response Action Outcome: -
Oil / Haz Material Type: Not reported

Click here to access the MA DEP site for this facility:

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112 ESE 1/4-1/2 0.254 mi. 1341 ft. | **NATIONAL GRID-WALNUT STREET 32**
47 WALNUT STREET
HAVERHILL, MA 01830 | **SHWS RELEASE TIER 2** | **S112292736 N/A**

Relative: Higher

Actual: 31 ft.

SHWS:
Release Tracking Number/Current Status: 3-0032337 / TIERII
Release Town: HAVERHILL
Notification Date: 07/31/2014
Category: 120 DY
Associated ID: Not reported
Current Status: **Tier II, A site/release receiving a total NRS score of less than 350, unless the site meets any of the Tier 1 Inclusionary Criteria (see above). Permits are not required at Tier 2 sites/releases and response actions may be performed under the supervision of an LSP without prior DEP approval. All pre-1993 transition sites that have accepted waivers are categorically Tier 2 sites.**
Status Date: 07/31/2015
Phase: PHASE II
Response Action Outcome: -
Oil Or Haz Material: Oil and Hazardous Material
Source: UNKNOWN

Click here to access the MA DEP site for this facility:

NATIONAL GRID-WALNUT STREET 32 (Continued) **S112292736**

Chemicals:

Chemical:	C11 THRU C22 AROMATIC HYDROCARBONS
Quantity:	2030 milligrams per kilogram
Chemical:	C19 THRU C36 ALIPHATIC HYDROCARBONS
Quantity:	6740 milligrams per kilogram
Chemical:	C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity:	4950 milligrams per kilogram
Chemical:	LEAD
Quantity:	978 milligrams per kilogram

Actions:

Action Type:	Tier Classification
Action Status:	Legal Notice Published
Action Date:	10/1/2015
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	ALSENT
Action Date:	5/5/2015
Response Action Outcome:	Not reported
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	7/31/2014
Response Action Outcome:	Not reported
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	7/31/2014
Response Action Outcome:	Not reported
Action Type:	RNFE
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	7/31/2014
Response Action Outcome:	Not reported
Action Type:	Phase 1
Action Status:	Completion Statement Received
Action Date:	7/31/2015
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	7/31/2015
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	7/31/2015
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	8/14/2014
Response Action Outcome:	Not reported

NATIONAL GRID-WALNUT STREET 32 (Continued) **S112292736**

Release:

Release Tracking Number/Current Status:	3-0032337 / TIERII
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	07/31/2014
Category:	120 DY
Status Date:	07/31/2015
Phase:	PHASE II
Response Action Outcome:	-
Oil / Haz Material Type:	Oil and Hazardous Material

Click here to access the MA DEP site for this facility:

TIER 2:

Report Year:	2014
Facility Id:	FATR20147Q98370AQCA3
Facility Dept:	Not reported
Latitude:	42.77551
Longitude:	-71.08334
Mailing Address:	Not reported
Mailing City/State/Zip:	Not reported
Mailing Country:	Not reported
Notes:	Not reported
All Chemicals Same As Last Yr:	T
Date Signed:	2/20/2015
Dike Or Other Safeguard:	Not reported
Failed Validation:	Not reported
Date Modified:	04/03/2015
Fees Total:	Not reported
Num Of Employees:	0
Site Coord Abbreviated?:	Not reported
Site Map:	Not reported
State Label Code:	MA2014
Submitted By:	Peter Harley, Environmental Manager
Validation Report:	Not reported
Fire District:	Not reported
Latlong Location Description:	Not reported
Latlong Method:	Not reported

Record Key:	FDTR20147Q98370ARCAJ
Id:	006952626
Type:	Dun & Bradstreet
Description:	Not reported
Last Modified:	02/08/2011

Record Key:	FDTR20147Q98370ASCB0
Id:	221122
Type:	NAICS
Description:	Electric Power Distribution
Last Modified:	02/08/2011

Record Key:	FDTR20147Q98370ATCB0
Id:	4911
Type:	SIC
Description:	ELECTRICAL SERVICES

NATIONAL GRID-WALNUT STREET 32 (Continued) **S112292736**

Last Modified: 02/08/2011

Contact:
Report Year: 2014
Contact Record Id: CTTR20146X8GV200ZHFA
Title: Not reported
Contact Name: Massachusetts Electric Company
Contact Email: www.nationalgrid.com
Contact Mail Address: 40 Sylvan Road
Contact Mail City: Waltham
Contact Mail State: MA
Contact Mail Zip: 02452
Contact Mail Country: USA
Contact1 Type: Owner / Operator
Contact2 Type: Not reported
Contact3 Type: Not reported
Contact4 Type: Not reported
Modification Date: 2/24/2015

Contact:
Report Year: 2014
Contact Record Id: CTTR201471KXSJ05T426
Title: Manager
Contact Name: Katinas
Contact Email: stephen.katinas@nationalgrid.com
Contact Mail Address: 40 Sylvan Road
Contact Mail City: Waltham
Contact Mail State: MA
Contact Mail Zip: 02451
Contact Mail Country: USA
Contact1 Type: Emergency Contact
Contact2 Type: Not reported
Contact3 Type: Not reported
Contact4 Type: Not reported
Modification Date: 2/24/2015

Contact:
Report Year: 2014
Contact Record Id: CTTR20146BDNLB06M245
Title: Lead Env Eng
Contact Name: Auxford-Paiva
Contact Email: beverly.auxford-paiva@nationalgrid.com
Contact Mail Address: 170 Medford Street
Contact Mail City: Malden
Contact Mail State: MA
Contact Mail Zip: 02148
Contact Mail Country: USA
Contact1 Type: Emergency Contact
Contact2 Type: Tier II Information Contact
Contact3 Type: Not reported
Contact4 Type: Not reported
Modification Date: 2/24/2015

NATIONAL GRID-WALNUT STREET 32 (Continued) **S112292736**

Chemicals:

Acute:	Not reported
Ave Amount:	52439
Ave Amount Code:	08
Chem Inv Record Id:	CVTR20147Q98370AXCCD
Chem Same As Last Yr:	T
Chronic:	T
CICAS:	64742-53-6
CI EHS Chemical:	Not reported
CI Last Modified:	2/24/2015
Days On Site:	365
Entered Chemical Name:	Mineral Oil Dielectric Fluid
Fire:	Not reported
Gas:	Not reported
Liquid:	T
Max Amount:	52439
Max Amount Code:	08
Max Amt Container:	Not reported
Mixture:	T
Pressure:	Not reported
Pure:	Not reported
Reactive:	Not reported
Solid:	Not reported
State01 Checkbox:	Not reported
State01 Number:	0
State01 Text:	NA
State02 Checkbox:	Not reported
State02 Number:	0
State02 Text:	NA
State03 Checkbox:	Not reported
State03 Number:	0
State03 Text:	Not reported
State04 Checkbox:	Not reported
State04 Number:	0
State04 Text:	NA
State05 Checkbox:	Not reported
State05 Text:	Not reported
State06 Checkbox:	Not reported
State06 Text:	Not reported
State07 Checkbox:	T
State07 Text:	no transport route needed, oil in transformers on-site
State1 Contact Field:	NA
State Label Code:	MA2014
Trade Secret:	Not reported

Location:

Record Key:	CLTR20147Q98370AYCCV
Chem Inv Record Id:	CVTR20147Q98370AXCCD
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Transformers
Amount:	52439
Amount Unit:	pounds
Last Modified:	2/24/2015

NATIONAL GRID-WALNUT STREET 32 (Continued) **S112292736**

Click this hyperlink while viewing on your computer to access
3 additional MA TIER2: record(s) in the EDR Site Report.

Click this hyperlink while viewing on your computer to access
3 additional MA TIER2: record(s) in the EDR Site Report.

Click this hyperlink while viewing on your computer to access
3 additional MA TIER2: record(s) in the EDR Site Report.

Click this hyperlink while viewing on your computer to access
3 additional MA TIER2: record(s) in the EDR Site Report.

113
East
1/4-1/2
0.256 mi.
1351 ft.

SAYERS OIL CO FMR
145 WINTER ST
HAVERHILL, MA 01830

SHWS **S100828905**
RELEASE **N/A**

Relative:
Higher

Actual:
78 ft.

SHWS:

Release Tracking Number/Current Status:	3-0001527 / DEPNDS
Release Town:	HAVERHILL
Notification Date:	10/15/1988
Category:	NONE
Associated ID:	Not reported
Current Status:	**Not a Disposal Site (DEP)**
Status Date:	05/20/1996
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Not reported
Location Type:	COMMERCIAL

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	UNKNOWN
Quantity:	Not reported

Actions:

Action Type:	Release Disposition
Action Status:	Valid Transition Site
Action Date:	10/15/1988
Response Action Outcome:	Not reported
Action Type:	TREGS
Action Status:	DEPNDS
Action Date:	5/20/1996
Response Action Outcome:	Not reported

Release:

Release Tracking Number/Current Status:	3-0001527 / DEPNDS
Primary ID:	Not reported

SAYERS OIL CO FMR (Continued) **S100828905**

Official City:	HAVERHILL
Notification:	10/15/1988
Category:	NONE
Status Date:	05/20/1996
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Not reported

Click here to access the MA DEP site for this facility:

W114
SSE
1/4-1/2
0.272 mi.
1438 ft.

NO LOCATION AID
53-63 WINGATE STREET
HAVERHILL, MA 01832

SHWS **S110526262**
RELEASE **N/A**
ENF

Site 1 of 3 in cluster W

Relative:
Higher

Actual:
32 ft.

SHWS:

Release Tracking Number/Current Status:	3-0029465 / TIERII
Release Town:	HAVERHILL
Notification Date:	08/24/2010
Category:	72 HR
Associated ID:	Not reported
Current Status:	**Tier II, A site/release receiving a total NRS score of less than 350, unless the site meets any of the Tier 1 Inclusionary Criteria (see above). Permits are not required at Tier 2 sites/releases and response actions may be performed under the supervision of an LSP without prior DEP approval. All pre-1993 transition sites that have accepted waivers are categorically Tier 2 sites.**
Status Date:	01/29/2013
Phase:	PHASE II
Response Action Outcome:	-
Oil Or Haz Material:	Not reported
Location Type:	COMMERCIAL
Source:	UNDER IN
Source:	UNKNOWN
Source:	VESTIGATN

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	PETROLEUM (NOS)
Quantity:	3.1 inches

Actions:

Action Type:	Phase 1
Action Status:	Completion Statement Received
Action Date:	1/29/2013
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	1/29/2013
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Classification

NO LOCATION AID (Continued) **S110526262**

Action Date: 1/29/2013
Response Action Outcome: Not reported

Action Type: An activity type that is related to an Audit
Action Status: NON-A
Action Date: 1/3/2013
Response Action Outcome: Not reported

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 10/21/2010
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 10/21/2010
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 10/27/2010
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Status: Level III - Comprehensive Audit
Action Date: 10/4/2012
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Status: Action Status or AUL Terminated
Action Date: 10/4/2012
Response Action Outcome: Not reported

Action Type: An activity type that is related to an Audit
Action Status: Notice of Non-compliance related to an Audit
Action Date: 10/4/2012
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 11/2/2010
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Status: Level I - Technical Screen Audit
Action Date: 11/29/2012
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 11/3/2014
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 11/6/2013
Response Action Outcome: Not reported

NO LOCATION AID (Continued) **S110526262**

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 11/7/2012
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 11/8/2012
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 12/22/2010
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Legal Notice Published
Action Date: 2/14/2013
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Status: Transmittal, Notice, or Notification Received
Action Date: 2/22/2011
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 4/15/2013
Response Action Outcome: Not reported

Action Type: An activity type that is related to an Audit
Action Status: Audit Follow-up Completion Statement Received
Action Date: 4/15/2013
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 4/22/2013
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 5/9/2014
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 8/24/2010
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 9/14/2010
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action

NO LOCATION AID (Continued) **S110526262**

Action Date:	9/23/2010
Response Action Outcome:	Not reported

Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	9/23/2010
Response Action Outcome:	Not reported

Release:

Release Tracking Number/Current Status:	3-0029465 / TIERII
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	08/24/2010
Category:	72 HR
Status Date:	01/29/2013
Phase:	PHASE II
Response Action Outcome:	-
Oil / Haz Material Type:	Not reported

Click here to access the MA DEP site for this facility:

ENFORCEMENT:

Region:	NERO
DEP Region:	NERO
DEP Program:	3A
DEP Bureau:	BWSC
Program:	BWSC
Program Id:	3-0029465
High Or Low Level Enforcement:	LLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Haverhill
Date Executed:	01/03/2013
ENF #:	NON-NE-12-3A076A
Document Type:	NON
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	Y
Regional Comment:	Not reported
Final Payment Due Date:	Not reported
ACOP $:	Not reported
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	Not reported
Ownership:	Individually Owned

Region:	NERO
DEP Region:	NERO
DEP Program:	3A
DEP Bureau:	BWSC

NO LOCATION AID (Continued) **S110526262**

Program:	BWSC
Program Id:	3-0029465
High Or Low Level Enforcement:	LLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Haverhill
Date Executed:	10/04/2012
ENF #:	NON-NE-12-3A076
Document Type:	NON
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	Y
Regional Comment:	Not reported
Final Payment Due Date:	Not reported
ACOP $:	Not reported
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	Not reported
Ownership:	Individually Owned

W115 **NO LOCATION AID** **SHWS** **S105199994**
SSE **52 WINGATE ST** **LUST** **N/A**
1/4-1/2 **HAVERHILL, MA 01832** **RELEASE**
0.280 mi.
1478 ft. **Site 2 of 3 in cluster W**

Relative:
Higher

Actual:
31 ft.

SHWS:

Release Tracking Number/Current Status:	3-0021314 / RAONR
Release Town:	HAVERHILL
Notification Date:	12/05/2001
Category:	120 DY
Associated ID:	3-0011109
Current Status:	**Response Action Outcome Not Required**
Status Date:	12/18/2002
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Oil and Hazardous Material

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	C19 THRU C36 ALIPHATIC HYDROCARBONS
Quantity:	2390 milligrams per kilogram
Chemical:	C11 THRU C22 AROMATIC HYDROCARBONS
Quantity:	990 milligrams per kilogram
Chemical:	C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity:	1980 milligrams per kilogram
Chemical:	SILVER
Quantity:	.01 milligrams per liter
Chemical:	C9 THRU C12 ALIPHATIC HYDROCARBONS
Quantity:	1260 milligrams per kilogram

NO LOCATION AID (Continued) **S105199994**

Actions:

Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via Tier Classification Submittal
Action Date:	12/17/2002
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	12/17/2002
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	12/17/2002
Response Action Outcome:	Not reported
Action Type:	RAO Not Required
Action Status:	Linked to a Tier Classified Site
Action Date:	12/18/2002
Response Action Outcome:	Not reported
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	12/5/2001
Response Action Outcome:	Not reported
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	12/5/2001
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	3/1/2002
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	3/11/2002
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Written Plan Received
Action Date:	4/22/2002
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	9/10/2007
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	9/10/2007
Response Action Outcome:	Not reported

NO LOCATION AID (Continued) **S105199994**

Release Tracking Number/Current Status:	3-0021036 / RAONR
Release Town:	HAVERHILL
Notification Date:	08/15/2001
Category:	120 DY
Associated ID:	3-0011109
Current Status:	**Response Action Outcome Not Required**
Status Date:	12/18/2002
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Oil and Hazardous Material

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	PHENANTHRENE
Quantity:	213 micrograms per liter
Chemical:	2-METHYLNAPHTHALENE
Quantity:	4 milligrams per kilogram
Chemical:	C9 THRU C12 ALIPHATIC HYDROCARBONS
Quantity:	.126 milligrams per kilogram
Chemical:	C9 THRU C12 ALIPHATIC HYDROCARBONS
Quantity:	9130 micrograms per liter
Chemical:	C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity:	1980 milligrams per kilogram
Chemical:	SILVER
Quantity:	.01 milligrams per liter
Chemical:	C19 THRU C36 ALIPHATIC HYDROCARBONS
Quantity:	23900 micrograms per liter
Chemical:	C11 THRU C22 AROMATIC HYDROCARBONS
Quantity:	990 milligrams per kilogram
Chemical:	C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity:	82900 micrograms per liter

Actions:

Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	12/17/2002
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	12/17/2002
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via Tier Classification Submittal
Action Date:	12/17/2002
Response Action Outcome:	Not reported
Action Type:	RAO Not Required
Action Status:	Linked to a Tier Classified Site
Action Date:	12/18/2002
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Notice of Non-Compliance Issued

NO LOCATION AID (Continued) **S105199994**

Action Date: 12/9/2002
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 2/12/2002
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 3/1/2002
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 4/22/2002
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 8/15/2001
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 8/15/2001
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 9/10/2007
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 9/10/2007
Response Action Outcome: Not reported

LUST:

Facility:
Release Tracking Number/Current Status: 3-0021534 / RAONR
Status Date: 12/18/2002
Source Type: UST
Release Town: HAVERHILL
Notification Date: 03/01/2002
Category: 72 HR
Associated ID: 3-0011109
Phase: Not reported
Response Action Outcome: -
Oil Or Haz Material: Oil

Location Type: COMMERCIAL
Source: UST

NO LOCATION AID (Continued) **S105199994**

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	#2 FUEL OIL
Quantity:	8.412 inches
Chemical:	NAPL
Quantity:	8 inches

Actions:

Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	12/17/2002
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via Tier Classification Submittal
Action Date:	12/17/2002
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	12/17/2002
Response Action Outcome:	Not reported
Action Type:	RAO Not Required
Action Status:	Linked to a Tier Classified Site
Action Date:	12/18/2002
Response Action Outcome:	Not reported
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	3/1/2002
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	3/1/2002
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	4/19/2002
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Written Plan Received
Action Date:	4/22/2002
Response Action Outcome:	Not reported
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	4/22/2002
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action

NO LOCATION AID (Continued) **S105199994**

Action Status:	Status or Interim Report Received
Action Date:	9/10/2007
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	9/10/2007
Response Action Outcome:	Not reported

Release:

Release Tracking Number/Current Status:	3-0021036 / RAONR
Primary ID:	3-0011109
Official City:	HAVERHILL
Notification:	08/15/2001
Category:	120 DY
Status Date:	12/18/2002
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Oil and Hazardous Material

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0021314 / RAONR
Primary ID:	3-0011109
Official City:	HAVERHILL
Notification:	12/05/2001
Category:	120 DY
Status Date:	12/18/2002
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Oil and Hazardous Material

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0021534 / RAONR
Primary ID:	3-0011109
Official City:	HAVERHILL
Notification:	03/01/2002
Category:	72 HR
Status Date:	12/18/2002
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

W116 SSE 1/4-1/2 0.280 mi. 1478 ft. | **NETCO AUTOMATION 52-60 WINGATE ST HAVERHILL, MA** | **LUST RELEASE ENF** | **S104516942 N/A**

Site 3 of 3 in cluster W

Relative: Higher

Actual: 31 ft.

LUST:

Facility:

Release Tracking Number/Current Status:	3-0011109 / RAO
Status Date:	09/22/2008
Source Type:	UST
Release Town:	HAVERHILL
Notification Date:	06/09/1994
Category:	72 HR
Associated ID:	3-0011109
Phase:	PHASE II
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Oil
Location Type:	COMMERCIAL
Source:	UST

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	#2 FUEL OIL
Quantity:	139 parts per million

Actions:

Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	1/20/1995
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Compliance and Enforcement Action
Action Status:	Notice of Non-Compliance Issued
Action Date:	1/26/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Oral Approval of a Modified Plan
Action Date:	11/13/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	11/13/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Modified Revised or Updated Plan Received
Action Date:	11/16/2007

NETCO AUTOMATION (Continued) **S104516942**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 11/21/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 12/17/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Submittal Retracted
Action Date: 12/17/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 12/17/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 12/17/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 12/17/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 12/17/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 2/3/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Compliance and Enforcement Action
Action Status: Amendment Received or Issued
Action Date: 3/19/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

NETCO AUTOMATION (Continued) **S104516942**

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 6/23/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Compliance and Enforcement Action
Action Status: Notice of Enforcement Conference
Action Date: 6/7/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 6/9/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 6/9/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Compliance and Enforcement Action
Action Status: ACOP
Action Date: 7/19/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 7/28/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 7/30/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 9/10/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 9/10/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 9/22/2008

NETCO AUTOMATION (Continued) **S104516942**

Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	9/22/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Release Tracking Number/Current Status:	3-0011109 / RAO
Primary ID:	3-0011109
Official City:	HAVERHILL
Notification:	06/09/1994
Category:	72 HR
Status Date:	09/22/2008
Phase:	PHASE II
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

ENFORCEMENT:

Region:	NERO
DEP Region:	NERO
DEP Program:	3A
DEP Bureau:	BWSC
Program:	Not reported
Program Id:	3-0011109
High Or Low Level Enforcement:	HLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Not reported
Date Executed:	03/19/2008
ENF #:	ACOP-NE-07-3A020-A
Document Type:	AMEND
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	Not reported
Regional Comment:	Not reported
Final Payment Due Date:	Not reported
ACOP $:	Not reported
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	Not reported
Ownership:	Commercially Owned

Region:	NERO
DEP Region:	NERO

NETCO AUTOMATION (Continued) **S104516942**

DEP Program:	3A
DEP Bureau:	BWSC
Program:	Not reported
Program Id:	RTN 3-0011109
High Or Low Level Enforcement:	HLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Not reported
Date Executed:	07/19/2007
ENF #:	ACOP-NE-07-3A020
Document Type:	ACOP
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	Not reported
Regional Comment:	Not reported
Final Payment Due Date:	07/19/2008
ACOP $:	10000
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	22000
Ownership:	Commercially Owned

Region:	NERO
DEP Region:	NERO
DEP Program:	3A
DEP Bureau:	BWSC
Program:	Not reported
Program Id:	3-0011109
High Or Low Level Enforcement:	LLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Not reported
Date Executed:	01/26/2007
ENF #:	NON-NE-07-3A011
Document Type:	NON
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	Not reported
Regional Comment:	Not reported
Final Payment Due Date:	Not reported
ACOP $:	Not reported
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	Not reported
Ownership:	Commercially Owned

117 NNE 1/4-1/2 0.283 mi. 1493 ft. | **NO LOCATION AID 7 STEWART ST HAVERHILL, MA** | **LUST RELEASE** | **S103546277 N/A**

Relative: Higher

Actual: 39 ft.

LUST:

Facility:

Release Tracking Number/Current Status:	3-0017522 / RAO
Status Date:	03/11/1999
Source Type:	UST
Release Town:	HAVERHILL
Notification Date:	11/04/1998
Category:	72 HR
Associated ID:	Not reported
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Oil
Location Type:	COMMERCIAL
Source:	UST

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	GASOLINE
Quantity:	340 parts per million

Actions:

Action Type:	Immediate Response Action
Action Status:	Written Plan Received
Action Date:	1/12/1999
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	11/4/1998
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	11/4/1998
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	12/2/1998
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	3/11/1999

NO LOCATION AID (Continued) **S103546277**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Release Tracking Number/Current Status:	3-0017522 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	11/04/1998
Category:	72 HR
Status Date:	03/11/1999
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

118
ESE
1/4-1/2
0.283 mi.
1494 ft.

Relative:
Higher

Actual:
30 ft.

NO LOCATION AID **SHWS** **S106617580**
16-38 WALNUT ST **INST CONTROL** **N/A**
HAVERHILL, MA 01830 **RELEASE**

SHWS:

Release Tracking Number/Current Status:	3-0024258 / RAO
Release Town:	HAVERHILL
Notification Date:	09/21/2004
Category:	120 DY
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	09/28/2005
Phase:	Not reported
Response Action Outcome:	A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Oil Or Haz Material:	Oil

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	C11 THRU C22 AROMATIC HYDROCARBONS
Quantity:	2400 parts per million
Chemical:	C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity:	6870 parts per million

Actions:

Action Type:	Response Action Outcome - RAO
Action Status:	Level I - Technical Screen Audit
Action Date:	1/7/2010
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	Activity and Use Limitation

NO LOCATION AID (Continued) **S106617580**

Action Status: Level II - Audit Inspection
Action Date: 9/18/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 9/21/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 9/21/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 9/23/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: An activity type that is related to an Audit
Action Status: NAFNVD
Action Date: 9/25/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Status: Transmittal, Notice, or Notification Received
Action Date: 9/28/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 9/28/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Fee Received - FMCRA Use Only
Action Date: 9/28/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release Tracking Number/Current Status: 3-0024259 / RAO

NO LOCATION AID (Continued) **S106617580**

Release Town:	HAVERHILL
Notification Date:	09/21/2004
Category:	120 DY
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	09/22/2005
Phase:	Not reported
Response Action Outcome:	B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.
Oil Or Haz Material:	Hazardous Material

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	TRICHLOROETHENE
Quantity:	.56 parts per million

Actions:

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	9/21/2004
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	9/21/2004
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	9/22/2005
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	9/23/2004
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.
Action Type:	Response Action Outcome - RAO
Action Status:	Fee Received - FMCRA Use Only
Action Date:	9/26/2005
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

INST CONTROL:

Release Tracking Number:	3-0024258
Action Type:	AUL
Action Stat:	RECPT
Action Date:	09/28/2005
Response Action Outcome:	A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL)

NO LOCATION AID (Continued) **S106617580**

has been implemented.

Release Tracking Number: 3-0024258
Action Type: AUL
Action Stat: SNAUDI
Action Date: 09/18/2007
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release:
Release Tracking Number/Current Status: 3-0024258 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 09/21/2004
Category: 120 DY
Status Date: 09/28/2005
Phase: Not reported
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status: 3-0024259 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 09/21/2004
Category: 120 DY
Status Date: 09/22/2005
Phase: Not reported
Response Action Outcome: B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.
Oil / Haz Material Type: Hazardous Material

Click here to access the MA DEP site for this facility:

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119 NW 1/4-1/2 0.288 mi. 1521 ft. | **RESIDENCE 73 HILLDALE AVE HAVERHILL, MA** | **LAST RELEASE LEAD** | **S102687321 N/A**

Relative: Lower
Actual: 23 ft.

LAST:
Release Tracking Number/Current Status: 3-0015276 / RAO
Source Type: AST
Release Town: HAVERHILL
Notification Date: 07/03/1997
Category: TWO HR
Associated ID: Not reported
Status Date: 10/30/1997
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.

RESIDENCE (Continued) **S102687321**

Oil Or Haz Material: Oil

Chemicals:
Chemical: FUEL OIL #2
Quantity: 100 gallons
Location Type: RESIDNTIAL
Source: AST

Actions:
Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 10/30/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 7/14/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLFLD
Action Date: 7/3/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 7/3/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 7/3/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 9/30/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Release Tracking Number/Current Status: 3-0015276 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 07/03/1997
Category: TWO HR
Status Date: 10/30/1997
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Oil

RESIDENCE (Continued) **S102687321**

Click here to access the MA DEP site for this facility:

LEAD:

Community:	Haverhill
Unit:	2
Inspector Name:	Richard Holmes
Inspector License Number:	1837
Activity Type:	INSPECT
Activity Date:	09/29/1993
Start Work Date:	01/09/2014
Activity Descriptions:	Comprehensive Initial Inspection
Outcomes:	No Hazards Found

Community:	Haverhill
Unit:	2
Inspector Name:	Rafael Vasquez
Inspector License Number:	3802
Activity Type:	INSPECT
Activity Date:	11/25/2013
Start Work Date:	01/09/2014
Activity Descriptions:	Determination
Outcomes:	Hazards Found

Community:	Haverhill
Unit:	2
Inspector Name:	Rafael Vasquez
Inspector License Number:	3802
Activity Type:	INSPECT
Activity Date:	12/30/2013
Start Work Date:	01/09/2014
Activity Descriptions:	PCAD
Outcomes:	Hazards Found

Community:	Haverhill
Unit:	2
Inspector Name:	Rafael Vasquez
Inspector License Number:	3802
Activity Type:	INSPECT
Activity Date:	01/17/2014
Start Work Date:	01/09/2014
Activity Descriptions:	Final 30 Day Maintenance Reinsp
Outcomes:	Passed

Community:	Haverhill
Unit:	2
Inspector Name:	Rafael Vasquez
Inspector License Number:	3802
Activity Type:	COMPLIANCE
Activity Date:	01/17/2014
Start Work Date:	01/09/2014
Activity Descriptions:	Cert of Maintained Compliance
Outcomes:	Issued

Community:	Haverhill
Unit:	3
Inspector Name:	Richard Holmes

RESIDENCE (Continued) **S102687321**

Inspector License Number:	1837
Activity Type:	INSPECT
Activity Date:	09/29/1993
Start Work Date:	Not reported
Activity Descriptions:	Comprehensive Initial Inspection
Outcomes:	No Hazards Found

Community:	Haverhill
Unit:	3
Inspector Name:	Richard Holmes
Inspector License Number:	1837
Activity Type:	INSPECT
Activity Date:	04/16/1999
Start Work Date:	Not reported
Activity Descriptions:	PCAD
Outcomes:	No Hazards Found

Community:	Haverhill
Unit:	3
Inspector Name:	Richard Holmes
Inspector License Number:	1837
Activity Type:	COMPLIANCE
Activity Date:	04/16/1999
Start Work Date:	Not reported
Activity Descriptions:	Cert of Maintained Compliance
Outcomes:	Issued

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120 SSE 1/4-1/2 0.290 mi. 1532 ft. | **PROPERTY 25-35 RAILROAD SQ HAVERHILL, MA 01830** | **SHWS RELEASE** | **S100828899 N/A**

Relative: Higher

Actual: 33 ft.

SHWS:

Release Tracking Number/Current Status:	3-0003157 / DEPNDS
Release Town:	HAVERHILL
Notification Date:	07/15/1990
Category:	NONE
Associated ID:	Not reported
Current Status:	**Not a Disposal Site (DEP)**
Status Date:	05/03/1996
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Oil
Location Type:	COMMERCIAL
Location Type:	RESIDNTIAL
Source:	UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	VOCS
Quantity:	Not reported

Actions:

Action Type:	TREGS
Action Status:	DEPNDS

PROPERTY (Continued) **S100828899**

Action Date: 5/3/1996
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Valid Transition Site
Action Date: 7/15/1990
Response Action Outcome: Not reported

Release:
Release Tracking Number/Current Status: 3-0003157 / DEPNDS
Primary ID: Not reported
Official City: HAVERHILL
Notification: 07/15/1990
Category: NONE
Status Date: 05/03/1996
Phase: Not reported
Response Action Outcome: -
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

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121 North 1/4-1/2 0.291 mi. 1534 ft. | **HAVERHILL SALVAGE**
81 HALE STREET
HAVERHILL, MA 01830

CERCLIS **1000215038**
SHWS **MAD019394139**
INST CONTROL
RELEASE
PRP

Relative: Higher

Actual: 32 ft.

CERCLIS:
Site ID: 0100481
EPA ID: MAD019394139
Facility County: ESSEX
Short Name: HAVERHILL SALVAGE
Congressional District: 05
IFMS ID: 01J9
SMSA Number: 4160
USGC Hydro Unit: 01070002
Federal Facility: Not a Federal Facility
DMNSN Number: 0.00000
Site Orphan Flag: N
RCRA ID: Not reported
USGS Quadrangle: Not reported
Site Init By Prog: Not reported
NFRAP Flag: Not reported
Parent ID: Not reported
RST Code: Not reported
EPA Region: 01
Classification: Not reported
Site Settings Code: Not reported
NPL Status: Not on the NPL
DMNSN Unit Code: Not reported
RBRAC Code: Not reported
RResp Fed Agency Code: Not reported
Non NPL Status: Other Cleanup Activity: State-Lead Cleanup
Non NPL Status Date: 08/18/00
Site Fips Code: 25009

HAVERHILL SALVAGE (Continued) **1000215038**

CC Concurrence Date: / /
CC Concurrence FY: Not reported
Alias EPA ID: Not reported
Site FUDS Flag: Not reported

CERCLIS Site Contact Name(s):
Contact ID: 1000119.00000
Contact Name: GARY LIPSON
Contact Tel: (617) 918-1274
Contact Title: On-Scene Coordinator (OSC)
Contact Email: lipson.gary@epamail.epa.gov

Contact ID: 1270187.00000
Contact Name: Nancy Smith
Contact Tel: (617) 918-1436
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Alias Comments: Not reported
Site Description: The MA DEP has recommended that this site be assigned state lead status. A site specific letter of recommendation will be forwarded to EPA later this year.The MA DEP has recommended that this site be assigned state lead status. A site specific letter of recommendation will be forwarded to EPA later this year.

CERCLIS Assessment History:

Action Code: 001
Action: DISCOVERY
Date Started: / /
Date Completed: 03/31/85
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: State, Fund Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 06/27/86
Priority Level: Higher priority for further assessment
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: REMOVAL ASSESSMENT
Date Started: 06/02/88

HAVERHILL SALVAGE (Continued) **1000215038**

Date Completed:	02/15/89
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	Notice Letters Issued
Date Started:	/ /
Date Completed:	09/28/90
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	002
Action:	Notice Letters Issued
Date Started:	/ /
Date Completed:	09/28/90
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	003
Action:	Notice Letters Issued
Date Started:	/ /
Date Completed:	09/28/90
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	SITE INSPECTION
Date Started:	/ /
Date Completed:	10/03/90
Priority Level:	Higher priority for further assessment
Operable Unit:	SITEWIDE

HAVERHILL SALVAGE (Continued) **1000215038**

Primary Responsibility:	State, Fund Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	Public Notice Published
Date Started:	/ /
Date Completed:	11/10/90
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	005
Action:	Notice Letters Issued
Date Started:	/ /
Date Completed:	02/14/91
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	004
Action:	Notice Letters Issued
Date Started:	/ /
Date Completed:	02/14/91
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	REMOVAL
Date Started:	09/24/90
Date Completed:	05/01/91
Priority Level:	Stabilized
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Primary
Urgency Indicator:	Time Critical
Action Anomaly:	Original Action Take Over

HAVERHILL SALVAGE (Continued) **1000215038**

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	UNILATERAL ADMIN ORDER
Date Started:	/ /
Date Completed:	05/09/91
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	POTENTIALLY RESPONSIBLE PARTY REMOVAL
Date Started:	05/20/91
Date Completed:	11/27/95
Priority Level:	Cleaned up
Operable Unit:	SITEWIDE
Primary Responsibility:	Responsible Party
Planning Status:	Primary
Urgency Indicator:	Time Critical
Action Anomaly:	New Action Resulting from Take Over

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	NON-NATIONAL PRIORITIES LIST POTENTIALLY RESPONSIBLE PARTY SEARCH
Date Started:	11/27/90
Date Completed:	10/20/98
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Click this hyperlink while viewing on your computer to access
6 additional US CERCLIS Financial: record(s) in the EDR Site Report.

SHWS:

Release Tracking Number/Current Status:	3-0000325 / RAO
Release Town:	HAVERHILL
Notification Date:	11/15/1985
Category:	NONE
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	05/14/2004
Phase:	PHASE IV
Response Action Outcome:	C1 - C1
Oil Or Haz Material:	Hazardous Material

HAVERHILL SALVAGE (Continued) **1000215038**

Location Type: COMMERCIAL
Location Type: JUNKYARD
Source: UNCONTAIN
Source: UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: PCBS
Quantity: Not reported
Chemical: PCB
Quantity: Not reported

Actions:
Action Type: Activity and Use Limitation
Action Status: Level II - Audit Inspection
Action Date: 10/28/2010
Response Action Outcome: C1

Action Type: RLFA
Action Status: FLDRAN
Action Date: 10/28/2010
Response Action Outcome: C1

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 11/15/1985
Response Action Outcome: C1

Action Type: Release Disposition
Action Status: Valid Transition Site
Action Date: 11/15/1985
Response Action Outcome: C1

Action Type: Tier Classification
Action Status: Tier 1B Classification
Action Date: 11/18/1994
Response Action Outcome: C1

Action Type: Tier Classification
Action Status: Permit Effective Date
Action Date: 11/18/1994
Response Action Outcome: C1

Action Type: TREGS
Action Status: BWSC05
Action Date: 11/18/1994
Response Action Outcome: C1

Action Type: An activity type that is related to an Audit
Action Status: NAFNVD
Action Date: 11/29/2010
Response Action Outcome: C1

Action Type: Release Abatement Measure
Action Status: Written Plan Received

HAVERHILL SALVAGE (Continued) **1000215038**

Action Date: 12/18/2003
Response Action Outcome: C1

Action Type: Tier Classification
Action Status: Permit Extension Received
Action Date: 2/28/2002
Response Action Outcome: C1

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 3/31/2004
Response Action Outcome: C1

Action Type: Activity and Use Limitation
Action Status: Transmittal, Notice, or Notification Received
Action Date: 5/14/2004
Response Action Outcome: C1

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 5/14/2004
Response Action Outcome: C1

Action Type: Activity and Use Limitation
Action Status: Legal Notice Published
Action Date: 5/20/2004
Response Action Outcome: C1

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 5/30/2003
Response Action Outcome: C1

Action Type: Compliance and Enforcement Action
Action Status: Notice of Non-Compliance Issued
Action Date: 6/10/2002
Response Action Outcome: C1

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 6/30/1994
Response Action Outcome: C1

Action Type: Tier Classification
Action Status: Permit Effective Date
Action Date: 7/12/2002
Response Action Outcome: C1

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 8/31/2004
Response Action Outcome: C1

Action Type: Activity and Use Limitation
Action Status: Level I - Technical Screen Audit
Action Date: 8/31/2004
Response Action Outcome: C1

HAVERHILL SALVAGE (Continued) **1000215038**

Action Type: Phase 3
Action Status: Completion Statement Received
Action Date: 9/2/2003
Response Action Outcome: C1

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 9/5/1995
Response Action Outcome: C1

Action Type: BWS20
Action Status: APPROV
Action Date: Not reported
Response Action Outcome: C1

INST CONTROL:

Release Tracking Number: 3-0000325
Action Type: AUL
Action Stat: LEGNOT
Action Date: 05/20/2004
Response Action Outcome: C1 - C1

Release Tracking Number: 3-0000325
Action Type: AUL
Action Stat: RECPT
Action Date: 05/14/2004
Response Action Outcome: C1 - C1

Release Tracking Number: 3-0000325
Action Type: AUL
Action Stat: SNAUDI
Action Date: 10/28/2010
Response Action Outcome: C1 - C1

Release Tracking Number: 3-0000325
Action Type: AUL
Action Stat: TSAUD
Action Date: 08/31/2004
Response Action Outcome: C1 - C1

Release:

Release Tracking Number/Current Status: 3-0000325 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 11/15/1985
Category: NONE
Status Date: 05/14/2004
Phase: PHASE IV
Response Action Outcome: C1 - C1
Oil / Haz Material Type: Hazardous Material

Click here to access the MA DEP site for this facility:

HAVERHILL SALVAGE (Continued) **1000215038**

PRP:
PRP name: ATLANTIC COREY CRANE SERVICE INC
GOLDBERG MARILYN
GOLDBERG MARILYN
GOLDBERG MARILYN
GOLDBERG MYER L
GOLDBERG MYER L
MALDEN SALVAGE COMPANY INC
NORTHEAST RADIO INC

---

122 ESE 1/4-1/2 0.312 mi. 1647 ft. | **CORNER OF EMERSON 2 WALNUT ST HAVERHILL, MA 01830** | **SHWS RELEASE** | **S102687313 N/A**

Relative: Higher

Actual: 32 ft.

SHWS:
Release Tracking Number/Current Status: 3-0015263 / RAO
Release Town: HAVERHILL
Notification Date: 07/01/1997
Category: 72 HR
Associated ID: Not reported
Current Status: **Response Action Outcome**
Status Date: 10/30/1997
Phase: Not reported
Response Action Outcome: B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.
Oil Or Haz Material: Hazardous Material
Location Type: COMMERCIAL
Source: UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: XYLENE
Quantity: 7100 parts per billion
Chemical: BENZENE, DIMETHYL
Quantity: 7156 parts per billion

Actions:
Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 10/30/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response Action
Action Status: IRA Assessment Only
Action Date: 7/1/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 7/1/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No

CORNER OF EMERSON (Continued) **S102687313**

Significant Risk exists.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 7/2/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 7/29/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Release:
Release Tracking Number/Current Status: 3-0015263 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 07/01/1997
Category: 72 HR
Status Date: 10/30/1997
Phase: Not reported
Response Action Outcome: B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.
Oil / Haz Material Type: Hazardous Material

Click here to access the MA DEP site for this facility:

---

123 ESE 1/4-1/2 0.314 mi. 1659 ft.

EMMAUS PROPERTY
7 MURRAY COURT
HAVERHILL, MA 01830

US BROWNFIELDS **1016139343**
FINDS **N/A**
ECHO

Relative: Higher

Actual: 64 ft.

US BROWNFIELDS:
Recipient name: Haverhill, City of
Grant type: Assessment
Property name: EMMAUS PROPERTY
Property #: Map 107, Block 1, Lots 1, 2, 3a, 20 and 22
Parcel size: .4
Property Description: Residential property was on the property since early 1900s. Since 1980s property was also used as a community garden area and then a parking lot. Near former industrial properties, this property was feared to have commingled contamination. Former owners included George Karelitz, who had aboveground storage tanks on the property. The property has since been redeveloped into a homeless shelter for up to 15 families at a time.
Latitude: 42.7761471
Longitude: -71.08139169999998
HCM label: Address Matching-House Number
Map scale: Not reported
Point of reference: Entrance Point of a Facility or Station
Datum: World Geodetic System of 1984
ACRES property ID: 42161
Start date: Not reported

EMMAUS PROPERTY (Continued) **1016139343**

Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	2000
Assessment funding source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment funding:	350000
Redev. funding source:	Private/Other Funding
Redev. funding entity name:	private donations
Redevelopment start date:	11/01/2007 00:00:00
Assessment funding entity:	EPA
Cleanup funding entity:	Not reported
Grant type:	H
Accomplishment type:	Phase I Environmental Assessment
Accomplishment count:	1
Cooperative agreement #:	97137401
Ownership entity:	Private
Current owner:	Emmaus Holdings, Inc.
Did owner change:	N
Cleanup required:	No
Video available:	No
Photo available:	No
Institutional controls required:	N
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Y
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Not reported
Petro products cleaned:	Not reported

EMMAUS PROPERTY (Continued) **1016139343**

Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Not reported
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	0
Past use greenspace acreage:	.3
Past use residential acreage:	.1
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	.1
Future use residential acreage:	.3
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported

Recipient name:	Haverhill, City of
Grant type:	Assessment
Property name:	EMMAUS PROPERTY
Property #:	Map 107, Block 1, Lots 1, 2, 3a, 20 and 22
Parcel size:	.4
Property Description:	Residential property was on the property since early 1900s. Since

EMMAUS PROPERTY (Continued) **1016139343**

1980s property was also used as a community garden area and then a parking lot. Near former industrial properties, this property was feared to have commingled contamination. Former owners included George Karelitz, who had aboveground storage tanks on the property. The property has since been redeveloped into a homeless shelter for up to 15 families at a time.

Latitude:	42.7761471
Longitude:	-71.08139169999998
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	World Geodetic System of 1984
ACRES property ID:	42161
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	2000
Assessment funding source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment funding:	75000
Redev. funding source:	Local Funding
Redev. funding entity name:	City of Haverhill
Redevelopment start date:	11/01/2007 00:00:00
Assessment funding entity:	EPA
Cleanup funding entity:	Not reported
Grant type:	H
Accomplishment type:	Phase I Environmental Assessment
Accomplishment count:	1
Cooperative agreement #:	97137401
Ownership entity:	Private
Current owner:	Emmaus Holdings, Inc.
Did owner change:	N
Cleanup required:	No
Video available:	No
Photo available:	No
Institutional controls required:	N
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported

EMMAUS PROPERTY (Continued) **1016139343**

Lead cleaned up:	Not reported
No media affected:	Y
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Not reported
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	0
Past use greenspace acreage:	.3
Past use residential acreage:	.1
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	.1
Future use residential acreage:	.3
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported

EMMAUS PROPERTY (Continued) **1016139343**

Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported
Recipient name:	Haverhill, City of
Grant type:	Assessment
Property name:	EMMAUS PROPERTY
Property #:	Map 107, Block 1, Lots 1, 2, 3a, 20 and 22
Parcel size:	.4
Property Description:	Residential property was on the property since early 1900s. Since 1980s property was also used as a community garden area and then a parking lot. Near former industrial properties, this property was feared to have commingled contamination. Former owners included George Karelitz, who had aboveground storage tanks on the property. The property has since been redeveloped into a homeless shelter for up to 15 families at a time.
Latitude:	42.7761471
Longitude:	-71.08139169999998
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	World Geodetic System of 1984
ACRES property ID:	42161
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	2000
Assessment funding source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment funding:	270000
Redev. funding source:	Other Federal Funding
Redev. funding entity name:	HUD - HOME Funds
Redevelopment start date:	11/01/2007 00:00:00
Assessment funding entity:	EPA
Cleanup funding entity:	Not reported
Grant type:	H
Accomplishment type:	Phase I Environmental Assessment
Accomplishment count:	1
Cooperative agreement #:	97137401
Ownership entity:	Private
Current owner:	Emmaus Holdings, Inc.
Did owner change:	N
Cleanup required:	No
Video available:	No
Photo available:	No
Institutional controls required:	N
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported

EMMAUS PROPERTY (Continued) **1016139343**

State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Y
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Not reported
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	0
Past use greenspace acreage:	.3
Past use residential acreage:	.1
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	.1
Future use residential acreage:	.3
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported

EMMAUS PROPERTY (Continued) **1016139343**

SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported

FINDS:

Registry ID: 110038724244

Environmental Interest/Information System
US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES) is an federal online database for Brownfields Grantees to electronically submit data directly to EPA.

ECHO:

Envid:	1016139343
Registry ID:	110038724244
FIPS Code:	25009
EPA Region:	01
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Y
Latitude:	42.7763
Longitude:	-71.08134
Map Icon:	NONE-UNK-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	CENTER OF A FACILITY OR STATION
Accuracy Meters:	30
Derived Tribes:	Not reported
Derived Huc:	01070006
Derived WBD:	Not reported
Derived STCT FPS:	25009
Derived Zip:	01830
Derived CD113:	03
Derived CB2010:	250092601002008
Percent Minority:	Not reported

EMMAUS PROPERTY (Continued) **1016139343**

Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	Not reported
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	Not reported
Programs in SNC:	0
Curr Compliance Status:	Not reported
Curr SNC Flag:	N
3yr Compliance Status:	Not reported
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported

EMMAUS PROPERTY (Continued) **1016139343**

CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	Not reported
RCRA Permit Types:	Not reported
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	Not reported
RCRA Curr Compliance Status:	Not reported
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	Not reported
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110038724244
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

124 NW 1/4-1/2 0.315 mi. 1665 ft.

NO LOCATION AID
17 LAFAYETTE ST
HAVERHILL, MA 01832

SHWS RELEASE

S102618551
N/A

Relative: Higher

Actual: 31 ft.

SHWS:

Release Tracking Number/Current Status:	3-0015169 / DPS
Release Town:	HAVERHILL
Notification Date:	05/30/1997
Category:	120 DY
Associated ID:	Not reported
Current Status:	**Downgradient Property Status**
Status Date:	05/30/1997
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Hazardous Material

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	NAPHTHALENE
Quantity:	69 parts per million

Actions:

Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	5/30/1997
Response Action Outcome:	Not reported
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	5/30/1997
Response Action Outcome:	Not reported
Action Type:	Downgradient Property Status
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	5/30/1997
Response Action Outcome:	Not reported

Release:

Release Tracking Number/Current Status:	3-0015169 / DPS
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	05/30/1997
Category:	120 DY
Status Date:	05/30/1997
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Hazardous Material

Click here to access the MA DEP site for this facility:

125 SSE 1/4-1/2 0.324 mi. 1711 ft. | **NO LOCATION AID**
86 WASHINGTON ST
HAVERHILL, MA 01830 | **SHWS RELEASE** | **S104516955 N/A**

Relative: Lower

Actual: 23 ft.

SHWS:

Release Tracking Number/Current Status:	3-0012948 / RAO
Release Town:	HAVERHILL
Notification Date:	09/20/1995
Category:	TWO HR
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	11/27/1995
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Oil
Location Type:	COMMERCIAL
Source:	PIPE
Source:	VEHICLE

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	DIESEL FUEL
Quantity:	25 gallons

Actions:

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	10/2/1995
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	11/27/1995
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	11/27/1995
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	9/20/1995
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	9/20/1995
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

NO LOCATION AID (Continued) **S104516955**

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 9/20/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Release Tracking Number/Current Status: 3-0012948 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 09/20/1995
Category: TWO HR
Status Date: 11/27/1995
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

126
NNE
1/4-1/2
0.332 mi.
1754 ft.

CF JAMESON & CO
72 SOUTH KIMBAL ST
HAVERHILL, MA 01830

SHWS **S101046320**
INST CONTROL **N/A**
SPILLS
RELEASE

Relative:
Higher

Actual:
78 ft.

SHWS:
Release Tracking Number/Current Status: 3-0012905 / RAONR
Release Town: HAVERHILL
Notification Date: 09/08/1995
Category: 72 HR
Associated ID: 3-0004516
Current Status: **Response Action Outcome Not Required**
Status Date: 08/11/1997
Phase: Not reported
Response Action Outcome: -
Oil Or Haz Material: Oil
Location Type: COMMERCIAL
Source: UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: DIESEL FUEL
Quantity: Not reported
Chemical: #2 FUEL OIL
Quantity: .5 inches

Actions:
Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 11/8/1995
Response Action Outcome: Not reported

CF JAMESON & CO (Continued) **S101046320**

Action Type:	RAO Not Required
Action Status:	Linked to a Transition Site - Obsolete Status
Action Date:	11/8/1995
Response Action Outcome:	Not reported

Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	11/8/1995
Response Action Outcome:	Not reported

Action Type:	RAO Not Required
Action Status:	Linked to a Tier Classified Site
Action Date:	8/11/1997
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via Tier Classification Submittal
Action Date:	8/11/1997
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	8/11/1997
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	8/11/1997
Response Action Outcome:	Not reported

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	9/28/1995
Response Action Outcome:	Not reported

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	9/8/1995
Response Action Outcome:	Not reported

Action Type:	Immediate Response Action
Action Status:	IRA Assessment Only
Action Date:	9/8/1995
Response Action Outcome:	Not reported

Release Tracking Number/Current Status:	3-0004516 / RAO
Release Town:	HAVERHILL
Notification Date:	07/15/1993
Category:	NONE
Associated ID:	3-0004516
Current Status:	**Response Action Outcome**
Status Date:	12/29/1999
Phase:	Not reported
Response Action Outcome:	A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

CF JAMESON & CO (Continued) **S101046320**

Oil Or Haz Material: Not reported

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: UNKNOWN
Quantity: Not reported

Actions:
Action Type: An activity type that is related to an Audit
Action Status: NAFNVD
Action Date: 1/25/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Status: Transmittal, Notice, or Notification Received
Action Date: 10/21/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Level II - Audit Inspection
Action Date: 11/2/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 11/8/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 12/29/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Disposition
Action Status: Valid Transition Site
Action Date: 7/15/1993
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 8/11/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

CF JAMESON & CO (Continued) **S101046320**

been implemented.

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 8/11/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS
Action Status: LSPFA
Action Date: 8/11/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 8/11/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

INST CONTROL:
Release Tracking Number: 3-0004516
Action Type: AUL
Action Stat: RECPT
Action Date: 10/21/1999
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

MA Spills:

Facility ID:	3-4516		Spill ID:	N93-0409
Staff Lead:	STEWART, B		Date Entered:	19940207
Last Entered:	19940207		First Response:	19930406
Spill Date:	19930406		Spill Time:	Not reported
Report Date:	19930406		Report Time:	11:55AM
Case Closed:	YES		Mat Type:	HAZARDOUS
Virgin Waste:	------		Contam Soil:	Not reported
Env Impact:	Not reported		Other Impact:	Not reported
Material:	OTHER MATERIAL	-->	Other Material:	PRO GLY MONO ETHER ACETAT
Qty Reported:	UNKNOWN		Qty Actual:	UNKNOWN
Qty Reported:	----------		Qty Actual:	----------
CAS No:	108-65-6		PCB Lev (ppm):	NONE
Source:	PIPE/HOSE/LINE		Other Source:	Not reported
Incident:	RUPTURE		Other Incdnt:	Not reported
Cleanup Type:	Not reported		Contractor:	NOT USED
Referral:	SA		LUST Elig:	NO
Report Prep:	Not reported		Category:	Not reported
Notifier:	BEN JAMESON			
Notif Tel:	Not reported			
Days/Close:	0			

CF JAMESON & CO (Continued) **S101046320**

Release:

Release Tracking Number/Current Status:	3-0004516 / RAO
Primary ID:	3-0004516
Official City:	HAVERHILL
Notification:	07/15/1993
Category:	NONE
Status Date:	12/29/1999
Phase:	Not reported
Response Action Outcome:	A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Oil / Haz Material Type:	Not reported

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0012905 / RAONR
Primary ID:	3-0004516
Official City:	HAVERHILL
Notification:	09/08/1995
Category:	72 HR
Status Date:	08/11/1997
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

X127 **HAVERHILL GAS CO** **EDR MGP** **1008408441**
NW **98 HILLDALE AVE** **N/A**
1/4-1/2 **HAVERHILL, MA 1830**
0.349 mi.
1845 ft. **Site 1 of 2 in cluster X**

Relative:
Higher

Actual:
26 ft.

Manufactured Gas Plants:
Alternate Name:HAVERHILL GAS LIGHT CO. No additional information available

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X128 **HAVERHILL GAS CO** **SHWS** **S100828885**
NW **98 HILLDALE AVE** **LAST** **N/A**
1/4-1/2 **HAVERHILL, MA 01832** **LUST**
0.349 mi. **RELEASE**
1845 ft. **Site 2 of 2 in cluster X** **ENF**
HW GEN

Relative:
Higher

Actual:
26 ft.

SHWS:

Release Tracking Number/Current Status:	3-0026443 / RAONR
Release Town:	HAVERHILL
Notification Date:	12/04/2006
Category:	TWO HR
Associated ID:	3-0000323
Current Status:	**Response Action Outcome Not Required**
Status Date:	02/09/2007
Phase:	Not reported

HAVERHILL GAS CO (Continued) **S100828885**

Response Action Outcome: -
Oil Or Haz Material: Not reported
Location Type: COMMERCIAL
Source: DRUMS

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: COAL TAR
Quantity: 6 gallons
Chemical: COAL TAR
Quantity: 8 gallons

Actions:
Action Type: Tier Classification
Action Status: TCEXT
Action Date: 10/10/2014
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 10/11/2013
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 10/12/2012
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 10/14/2010
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 10/14/2011
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 10/15/2009
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via IRA Completion Statement
Action Date: 11/8/2010
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 11/8/2010
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF

HAVERHILL GAS CO (Continued) **S100828885**

Action Date: 12/19/2006
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 12/19/2006
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Oral Approval of a Modified Plan
Action Date: 12/19/2006
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 12/4/2006
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 12/4/2006
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 2/9/2007
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 2/9/2007
Response Action Outcome: Not reported

Action Type: RAO Not Required
Action Status: Linked to a Tier Classified Site
Action Date: 2/9/2007
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via IRA Completion Statement
Action Date: 2/9/2007
Response Action Outcome: Not reported

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 2/9/2007
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via IRA Completion Statement
Action Date: 3/9/2010
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 6/1/2001
Response Action Outcome: Not reported

HAVERHILL GAS CO (Continued) **S100828885**

Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	7/31/2000
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	8/1/1995
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	8/1/1995
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	8/4/2006
Response Action Outcome:	Not reported

Release Tracking Number/Current Status:	3-0000323 / STMRET
Release Town:	HAVERHILL
Notification Date:	01/15/1987
Category:	NONE
Associated ID:	3-0000323
Current Status:	**Response Action Outcome Statement Retracted**
Status Date:	01/27/2010
Phase:	PHASE IV
Response Action Outcome:	-
Oil Or Haz Material:	Not reported
Source:	AST
Source:	DRUMS
Source:	UNKNOWN
Source:	UST

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	UNKNOWN
Quantity:	Not reported

Actions:

Action Type:	Release Disposition
Action Status:	Valid Transition Site
Action Date:	1/15/1987
Response Action Outcome:	Not reported

Action Type:	Release Abatement Measure
Action Status:	Completion Statement Received
Action Date:	1/23/2012
Response Action Outcome:	Not reported

Action Type:	Response Action Outcome - RAO
Action Status:	Submittal Retracted
Action Date:	1/27/2010

HAVERHILL GAS CO (Continued) **S100828885**

Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 1/27/2010
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 1/31/2008
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 10/1/2010
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: TCEXT
Action Date: 10/10/2014
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 10/11/2013
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 10/12/2012
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 10/14/2010
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 10/14/2011
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 10/14/2011
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 10/15/2009
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 10/17/2011
Response Action Outcome: Not reported

HAVERHILL GAS CO (Continued) **S100828885**

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 10/22/1997
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 11/10/2006
Response Action Outcome: Not reported

Action Type: An activity type that is related to an Audit
Action Status: NOA
Action Date: 11/15/2002
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 11/15/2013
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 11/19/2013
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FLDRAN
Action Date: 11/20/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via IRA Completion Statement
Action Date: 11/8/2010
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 11/8/2010
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 12/1/2009
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Modified Revised or Updated Plan Received
Action Date: 12/13/2006
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 12/2/2009
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Revised Statement or Transmittal Received

HAVERHILL GAS CO (Continued) **S100828885**

Action Date:	2/20/2015
Response Action Outcome:	Not reported
Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received
Action Date:	2/21/2007
Response Action Outcome:	Not reported
Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received
Action Date:	2/6/2009
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via IRA Completion Statement
Action Date:	2/9/2007
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Completion Statement Received
Action Date:	3/12/2007
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	3/14/2014
Response Action Outcome:	Not reported
Action Type:	An activity type that is related to an Audit
Action Status:	Notice of Non-compliance related to an Audit
Action Date:	3/21/2003
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Modified Revised or Updated Plan Received
Action Date:	3/26/2010
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	3/29/2001
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via IRA Completion Statement
Action Date:	3/9/2010
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	4/1/2010
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	4/29/1998
Response Action Outcome:	Not reported

HAVERHILL GAS CO (Continued) **S100828885**

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 4/4/2011
Response Action Outcome: Not reported

Action Type: Phase 4
Action Status: Written Plan Received
Action Date: 5/21/2015
Response Action Outcome: Not reported

Action Type: Phase 3
Action Status: Revised Statement or Transmittal Received
Action Date: 5/21/2015
Response Action Outcome: Not reported

Action Type: BOL
Action Status: Transmittal, Notice, or Notification Received
Action Date: 5/23/2011
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 6/1/2001
Response Action Outcome: Not reported

Action Type: BOL
Action Status: SHPFAC
Action Date: 6/2/2011
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 7/18/1996
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 7/22/2011
Response Action Outcome: Not reported

Action Type: An activity type that is related to an Audit
Action Status: Audit Follow-up Completion Statement Received
Action Date: 7/23/2003
Response Action Outcome: Not reported

Action Type: TREGS
Action Status: LSPFA
Action Date: 7/28/1995
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 7/31/2000
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO
Action Status: Periodic Review Opinion Evaluating Temp Solution

HAVERHILL GAS CO (Continued) **S100828885**

Action Date: 7/31/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 8/1/1995
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 8/1/1995
Response Action Outcome: Not reported

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 8/1/1995
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 8/14/2014
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action
Action Status: Notice of Non-Compliance Issued
Action Date: 8/22/2014
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 8/27/2009
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO
Action Status: Revised Statement or Transmittal Received
Action Date: 8/4/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 8/4/2006
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 8/7/2001
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 8/7/2001
Response Action Outcome: Not reported

Action Type: Phase 3
Action Status: Completion Statement Received
Action Date: 9/21/1998
Response Action Outcome: Not reported

HAVERHILL GAS CO (Continued) **S100828885**

Release Tracking Number/Current Status:	3-0028996 / RAONR
Release Town:	HAVERHILL
Notification Date:	01/08/2010
Category:	72 HR
Associated ID:	3-0000323
Current Status:	**Response Action Outcome Not Required**
Status Date:	11/08/2010
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Hazardous Material
Location Type:	OPENSPACE
Source:	MGP
Source:	FMR
Source:	SUSPECTED

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	NAPHTHALENE
Quantity:	2.7 micrograms per liter
Chemical:	NAPHTHALENE
Quantity:	2.7 parts per billion

Actions:

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	1/8/2010
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	IRA Assessment Only
Action Date:	1/8/2010
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	TCEXT
Action Date:	10/10/2014
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	10/11/2013
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	10/12/2012
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	10/14/2010
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension

HAVERHILL GAS CO (Continued) **S100828885**

Action Date: 10/14/2011
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 10/15/2009
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 11/8/2010
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 11/8/2010
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via IRA Completion Statement
Action Date: 11/8/2010
Response Action Outcome: Not reported

Action Type: RAO Not Required
Action Status: Linked to a Tier Classified Site
Action Date: 11/8/2010
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: ALSENT
Action Date: 11/8/2010
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via IRA Completion Statement
Action Date: 2/9/2007
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action
Action Status: Interim Deadline Letter Issued
Action Date: 2/9/2010
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 2/9/2010
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 3/11/2010
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via IRA Completion Statement
Action Date: 3/9/2010
Response Action Outcome: Not reported

HAVERHILL GAS CO (Continued) **S100828885**

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 3/9/2010
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 3/9/2010
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 3/9/2010
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 4/20/2011
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 5/6/2010
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 5/7/2010
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 6/1/2001
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 7/31/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 8/1/1995
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 8/1/1995
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 8/4/2006
Response Action Outcome: Not reported

HAVERHILL GAS CO (Continued) **S100828885**

LAST:

Release Tracking Number/Current Status:	3-0000323 / STMRET
Source Type:	AST
Release Town:	HAVERHILL
Notification Date:	01/15/1987
Category:	NONE
Associated ID:	3-0000323
Status Date:	01/27/2010
Phase:	PHASE IV
Response Action Outcome:	-
Oil Or Haz Material:	Not reported

Chemicals:

Chemical:	UNKNOWN
Quantity:	Not reported
Source:	AST
Source:	DRUMS
Source:	UNKNOWN
Source:	UST

Actions:

Action Type:	Release Disposition
Action Status:	Valid Transition Site
Action Date:	1/15/1987
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Completion Statement Received
Action Date:	1/23/2012
Response Action Outcome:	Not reported
Action Type:	Response Action Outcome - RAO
Action Status:	Submittal Retracted
Action Date:	1/27/2010
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	1/27/2010
Response Action Outcome:	Not reported
Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received
Action Date:	1/31/2008
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	10/1/2010
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	TCEXT
Action Date:	10/10/2014
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension

HAVERHILL GAS CO (Continued) **S100828885**

Action Date: 10/11/2013
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 10/12/2012
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 10/14/2010
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 10/14/2011
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 10/14/2011
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 10/15/2009
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 10/17/2011
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 10/22/1997
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 11/10/2006
Response Action Outcome: Not reported

Action Type: An activity type that is related to an Audit
Action Status: NOA
Action Date: 11/15/2002
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 11/15/2013
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 11/19/2013
Response Action Outcome: Not reported

HAVERHILL GAS CO (Continued) **S100828885**

Action Type: RLFA
Action Status: FLDRAN
Action Date: 11/20/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via IRA Completion Statement
Action Date: 11/8/2010
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 11/8/2010
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 12/1/2009
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Modified Revised or Updated Plan Received
Action Date: 12/13/2006
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 12/2/2009
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Revised Statement or Transmittal Received
Action Date: 2/20/2015
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 2/21/2007
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 2/6/2009
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via IRA Completion Statement
Action Date: 2/9/2007
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 3/12/2007
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received

HAVERHILL GAS CO (Continued) **S100828885**

Action Date: 3/14/2014
Response Action Outcome: Not reported

Action Type: An activity type that is related to an Audit
Action Status: Notice of Non-compliance related to an Audit
Action Date: 3/21/2003
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Modified Revised or Updated Plan Received
Action Date: 3/26/2010
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 3/29/2001
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via IRA Completion Statement
Action Date: 3/9/2010
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 4/1/2010
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 4/29/1998
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 4/4/2011
Response Action Outcome: Not reported

Action Type: Phase 4
Action Status: Written Plan Received
Action Date: 5/21/2015
Response Action Outcome: Not reported

Action Type: Phase 3
Action Status: Revised Statement or Transmittal Received
Action Date: 5/21/2015
Response Action Outcome: Not reported

Action Type: BOL
Action Status: Transmittal, Notice, or Notification Received
Action Date: 5/23/2011
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 6/1/2001
Response Action Outcome: Not reported

HAVERHILL GAS CO (Continued) **S100828885**

Action Type: BOL
Action Status: SHPFAC
Action Date: 6/2/2011
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 7/18/1996
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 7/22/2011
Response Action Outcome: Not reported

Action Type: An activity type that is related to an Audit
Action Status: Audit Follow-up Completion Statement Received
Action Date: 7/23/2003
Response Action Outcome: Not reported

Action Type: TREGS
Action Status: LSPFA
Action Date: 7/28/1995
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 7/31/2000
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO
Action Status: Periodic Review Opinion Evaluating Temp Solution
Action Date: 7/31/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 8/1/1995
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 8/1/1995
Response Action Outcome: Not reported

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 8/1/1995
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 8/14/2014
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action
Action Status: Notice of Non-Compliance Issued

HAVERHILL GAS CO (Continued) **S100828885**

Action Date:	8/22/2014
Response Action Outcome:	Not reported
Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received
Action Date:	8/27/2009
Response Action Outcome:	Not reported
Action Type:	Response Action Outcome - RAO
Action Status:	Revised Statement or Transmittal Received
Action Date:	8/4/2006
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	8/4/2006
Response Action Outcome:	Not reported
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	8/7/2001
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	8/7/2001
Response Action Outcome:	Not reported
Action Type:	Phase 3
Action Status:	Completion Statement Received
Action Date:	9/21/1998
Response Action Outcome:	Not reported

LUST:

Facility:

Release Tracking Number/Current Status:	3-0028995 / RAONR
Status Date:	03/09/2010
Source Type:	UST
Release Town:	HAVERHILL
Notification Date:	01/08/2010
Category:	72 HR
Associated ID:	3-0000323
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Oil
Location Type:	OPENSPACE
Source:	UST

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	GASOLINE

HAVERHILL GAS CO (Continued) **S100828885**

Quantity: 994 parts per million

Actions:

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 1/8/2010
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: IRA Assessment Only
Action Date: 1/8/2010
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: TCEXT
Action Date: 10/10/2014
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 10/11/2013
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 10/12/2012
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 10/14/2010
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 10/14/2011
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 10/15/2009
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via IRA Completion Statement
Action Date: 11/8/2010
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 11/8/2010
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via IRA Completion Statement
Action Date: 2/9/2007
Response Action Outcome: Not reported

HAVERHILL GAS CO (Continued) **S100828885**

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 2/9/2010
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action
Action Status: Interim Deadline Letter Issued
Action Date: 2/9/2010
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 3/9/2010
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 3/9/2010
Response Action Outcome: Not reported

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 3/9/2010
Response Action Outcome: Not reported

Action Type: RAO Not Required
Action Status: Linked to a Tier Classified Site
Action Date: 3/9/2010
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via IRA Completion Statement
Action Date: 3/9/2010
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 6/1/2001
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 7/31/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 8/1/1995
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 8/1/1995
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension

HAVERHILL GAS CO (Continued) **S100828885**

Action Date: 8/4/2006
Response Action Outcome: Not reported

Facility:
Release Tracking Number/Current Status: 3-0000323 / STMRET
Status Date: 01/27/2010
Source Type: UST
Release Town: HAVERHILL
Notification Date: 01/15/1987
Category: NONE
Associated ID: 3-0000323
Phase: PHASE IV
Response Action Outcome: -
Oil Or Haz Material: Not reported

Source: AST
Source: DRUMS
Source: UNKNOWN
Source: UST

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: UNKNOWN
Quantity: Not reported

Actions:
Action Type: Release Disposition
Action Status: Valid Transition Site
Action Date: 1/15/1987
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 1/23/2012
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO
Action Status: Submittal Retracted
Action Date: 1/27/2010
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 1/27/2010
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 1/31/2008
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received

HAVERHILL GAS CO (Continued) **S100828885**

Action Date: 10/1/2010
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: TCEXT
Action Date: 10/10/2014
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 10/11/2013
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 10/12/2012
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 10/14/2010
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 10/14/2011
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 10/14/2011
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 10/15/2009
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 10/17/2011
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 10/22/1997
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 11/10/2006
Response Action Outcome: Not reported

Action Type: An activity type that is related to an Audit
Action Status: NOA
Action Date: 11/15/2002
Response Action Outcome: Not reported

HAVERHILL GAS CO (Continued) **S100828885**

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 11/15/2013
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 11/19/2013
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FLDRAN
Action Date: 11/20/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via IRA Completion Statement
Action Date: 11/8/2010
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 11/8/2010
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 12/1/2009
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Modified Revised or Updated Plan Received
Action Date: 12/13/2006
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 12/2/2009
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Revised Statement or Transmittal Received
Action Date: 2/20/2015
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 2/21/2007
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 2/6/2009
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via IRA Completion Statement

HAVERHILL GAS CO (Continued) **S100828885**

Action Date: 2/9/2007
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 3/12/2007
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 3/14/2014
Response Action Outcome: Not reported

Action Type: An activity type that is related to an Audit
Action Status: Notice of Non-compliance related to an Audit
Action Date: 3/21/2003
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Modified Revised or Updated Plan Received
Action Date: 3/26/2010
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 3/29/2001
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via IRA Completion Statement
Action Date: 3/9/2010
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 4/1/2010
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 4/29/1998
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 4/4/2011
Response Action Outcome: Not reported

Action Type: Phase 4
Action Status: Written Plan Received
Action Date: 5/21/2015
Response Action Outcome: Not reported

Action Type: Phase 3
Action Status: Revised Statement or Transmittal Received
Action Date: 5/21/2015
Response Action Outcome: Not reported

HAVERHILL GAS CO (Continued) **S100828885**

Action Type: BOL
Action Status: Transmittal, Notice, or Notification Received
Action Date: 5/23/2011
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 6/1/2001
Response Action Outcome: Not reported

Action Type: BOL
Action Status: SHPFAC
Action Date: 6/2/2011
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 7/18/1996
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 7/22/2011
Response Action Outcome: Not reported

Action Type: An activity type that is related to an Audit
Action Status: Audit Follow-up Completion Statement Received
Action Date: 7/23/2003
Response Action Outcome: Not reported

Action Type: TREGS
Action Status: LSPFA
Action Date: 7/28/1995
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 7/31/2000
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO
Action Status: Periodic Review Opinion Evaluating Temp Solution
Action Date: 7/31/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 8/1/1995
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 8/1/1995
Response Action Outcome: Not reported

Action Type: Phase 1
Action Status: Completion Statement Received

HAVERHILL GAS CO (Continued) **S100828885**

Action Date: 8/1/1995
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 8/14/2014
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action
Action Status: Notice of Non-Compliance Issued
Action Date: 8/22/2014
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 8/27/2009
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO
Action Status: Revised Statement or Transmittal Received
Action Date: 8/4/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 8/4/2006
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 8/7/2001
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 8/7/2001
Response Action Outcome: Not reported

Action Type: Phase 3
Action Status: Completion Statement Received
Action Date: 9/21/1998
Response Action Outcome: Not reported

Release:
Release Tracking Number/Current Status: 3-0000323 / STMRET
Primary ID: 3-0000323
Official City: HAVERHILL
Notification: 01/15/1987
Category: NONE
Status Date: 01/27/2010
Phase: PHASE IV
Response Action Outcome: -
Oil / Haz Material Type: Not reported

HAVERHILL GAS CO (Continued) **S100828885**

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0026443 / RAONR
Primary ID:	3-0000323
Official City:	HAVERHILL
Notification:	12/04/2006
Category:	TWO HR
Status Date:	02/09/2007
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Not reported

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0028995 / RAONR
Primary ID:	3-0000323
Official City:	HAVERHILL
Notification:	01/08/2010
Category:	72 HR
Status Date:	03/09/2010
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0028996 / RAONR
Primary ID:	3-0000323
Official City:	HAVERHILL
Notification:	01/08/2010
Category:	72 HR
Status Date:	11/08/2010
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Hazardous Material

Click here to access the MA DEP site for this facility:

ENFORCEMENT:

Region:	NERO
DEP Region:	NERO
DEP Program:	3R
DEP Bureau:	BWSC
Program:	BWSC
Program Id:	3-0000323
High Or Low Level Enforcement:	LLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Haverhill
Date Executed:	08/22/2014
ENF #:	NON-NE-14-3R064
Document Type:	NON
AG Ref (Y/N):	Not reported

HAVERHILL GAS CO (Continued) **S100828885**

Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	Y
Regional Comment:	Not reported
Final Payment Due Date:	Not reported
ACOP $:	Not reported
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	Not reported
Ownership:	Commercially Owned

Region:	NERO
DEP Region:	NERO
DEP Program:	3C
DEP Bureau:	BWSC
Program:	Not reported
Program Id:	3-0028995
High Or Low Level Enforcement:	LLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Not reported
Date Executed:	02/09/2010
ENF #:	Not reported
Document Type:	IDL
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	Not reported
Regional Comment:	Not reported
Final Payment Due Date:	Not reported
ACOP $:	Not reported
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	Not reported
Ownership:	Commercially Owned

Region:	NERO
DEP Region:	NERO
DEP Program:	3C
DEP Bureau:	BWSC
Program:	Not reported
Program Id:	3-0028996
High Or Low Level Enforcement:	LLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Not reported
Date Executed:	02/09/2010
ENF #:	Not reported
Document Type:	IDL
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported

HAVERHILL GAS CO (Continued) **S100828885**

EJ Community (Y/N):	Not reported
Regional Comment:	Not reported
Final Payment Due Date:	Not reported
ACOP $:	Not reported
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	Not reported
Ownership:	Commercially Owned

HW GEN:

EPA Id:	MAC300006954
RCRA Generator Status:	SQG
State Generator Status:	SQG-MA

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129 South 1/4-1/2 0.354 mi. 1867 ft. | **CORNER OF RIVER ST**
170 WASHINGTON ST
HAVERHILL, MA 01830 | **SHWS RELEASE LEAD** | **S111274754 N/A**

Relative: Higher

Actual: 40 ft.

SHWS:

Release Tracking Number/Current Status:	3-0012458 / RAO
Release Town:	HAVERHILL
Notification Date:	05/05/1995
Category:	120 DY
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	05/05/1995
Phase:	Not reported
Response Action Outcome:	B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.
Oil Or Haz Material:	Oil

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	TPH
Quantity:	660 parts per million

Actions:

Action Type:	An activity type that is related to an Audit
Action Status:	NAFNVD
Action Date:	11/27/1996
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	5/5/1995
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

CORNER OF RIVER ST (Continued) **S111274754**

Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	5/5/1995
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	5/5/1995
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

Release:

Release Tracking Number/Current Status:	3-0012458 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	05/05/1995
Category:	120 DY
Status Date:	05/05/1995
Phase:	Not reported
Response Action Outcome:	B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

LEAD:

Community:	Haverhill
Unit:	105
Inspector Name:	John Pesce
Inspector License Number:	1201
Activity Type:	INSPECT
Activity Date:	06/24/2011
Start Work Date:	Not reported
Activity Descriptions:	Comprehensive Initial Inspection
Outcomes:	No Hazards Found

Community:	Haverhill
Unit:	105
Inspector Name:	John Pesce
Inspector License Number:	1201
Activity Type:	COMPLIANCE
Activity Date:	06/24/2011
Start Work Date:	Not reported
Activity Descriptions:	Letter of Full Initial Insp Comp
Outcomes:	Issued

Community:	Haverhill
Unit:	107
Inspector Name:	John Pesce
Inspector License Number:	1201
Activity Type:	INSPECT
Activity Date:	06/24/2011
Start Work Date:	Not reported

CORNER OF RIVER ST (Continued) **S111274754**

Activity Descriptions: Comprehensive Initial Inspection
Outcomes: No Hazards Found

Community: Haverhill
Unit: 107
Inspector Name: John Pesce
Inspector License Number: 1201
Activity Type: COMPLIANCE
Activity Date: 06/24/2011
Start Work Date: Not reported
Activity Descriptions: Letter of Full Initial Insp Comp
Outcomes: Issued

Community: Haverhill
Unit: 109
Inspector Name: John Pesce
Inspector License Number: 1201
Activity Type: INSPECT
Activity Date: 06/24/2011
Start Work Date: Not reported
Activity Descriptions: Comprehensive Initial Inspection
Outcomes: No Hazards Found

Community: Haverhill
Unit: 109
Inspector Name: John Pesce
Inspector License Number: 1201
Activity Type: COMPLIANCE
Activity Date: 06/24/2011
Start Work Date: Not reported
Activity Descriptions: Letter of Full Initial Insp Comp
Outcomes: Issued

Community: Haverhill
Unit: 111
Inspector Name: John Pesce
Inspector License Number: 1201
Activity Type: INSPECT
Activity Date: 06/24/2011
Start Work Date: Not reported
Activity Descriptions: Comprehensive Initial Inspection
Outcomes: No Hazards Found

Community: Haverhill
Unit: 111
Inspector Name: John Pesce
Inspector License Number: 1201
Activity Type: COMPLIANCE
Activity Date: 06/24/2011
Start Work Date: Not reported
Activity Descriptions: Letter of Full Initial Insp Comp
Outcomes: Issued

Community: Haverhill
Unit: 201
Inspector Name: John Pesce
Inspector License Number: 1201

CORNER OF RIVER ST (Continued) **S111274754**

Activity Type:	INSPECT
Activity Date:	06/13/2011
Start Work Date:	Not reported
Activity Descriptions:	Comprehensive Initial Inspection
Outcomes:	No Hazards Found

Community:	Haverhill
Unit:	201
Inspector Name:	John Pesce
Inspector License Number:	1201
Activity Type:	COMPLIANCE
Activity Date:	06/13/2011
Start Work Date:	Not reported
Activity Descriptions:	Letter of Full Initial Insp Comp
Outcomes:	Issued

Click this hyperlink while viewing on your computer to access
154 additional MA LEAD: record(s) in the EDR Site Report.

130
SE
1/4-1/2
0.354 mi.
1868 ft.

PHOENIX ROW **US BROWNFIELDS** **1018149816**
42 PHOENIX ROW **N/A**
HAVERHILL, MA 01830

Relative:
Lower

Actual:
14 ft.

US BROWNFIELDS:

Recipient name:	Haverhill, City of
Grant type:	Assessment
Property name:	PHOENIX ROW
Property #:	309, 1, 17
Parcel size:	.21
Property Description:	Property used for shoe manufacturing and leather cutting.
Latitude:	42.7732472
Longitude:	-71.0831685
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983
ACRES property ID:	155701
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	7825
Assessment funding source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	EPA
Cleanup funding entity:	Not reported
Grant type:	H
Accomplishment type:	Phase I Environmental Assessment
Accomplishment count:	1
Cooperative agreement #:	97114101
Ownership entity:	Private
Current owner:	Bethany Homes, Inc

PHOENIX ROW (Continued) **1018149816**

Did owner change:	Y
Cleanup required:	No
Video available:	Not reported
Photo available:	Not reported
Institutional controls required:	N
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	No
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Not reported
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	.21
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported

PHOENIX ROW (Continued) **1018149816**

Superfund Fed. landowner flag:	Y
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported

---

131 North 1/4-1/2 0.366 mi. 1933 ft. | **COLLINS OIL**
112 HALE ST
HAVERHILL, MA 01830 | **SHWS** **S106863537**
LUST **N/A**
RELEASE
ENF

Relative: Higher

Actual: 26 ft.

SHWS:

Release Tracking Number/Current Status:	3-0003003 / PSNC
Release Town:	HAVERHILL
Notification Date:	04/15/1990
Category:	NONE
Associated ID:	Not reported
Current Status:	**PSNC**
Status Date:	10/15/2014
Phase:	PHASE II
Response Action Outcome:	-
Oil Or Haz Material:	Not reported
Location Type:	FUEL DEPOT
Source:	UST
Source:	TANKDISP

Click here to access the MA DEP site for this facility:

COLLINS OIL (Continued) **S106863537**

Chemicals:
Chemical: UNKNOWN
Quantity: Not reported

Actions:
Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 10/1/2014
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 10/15/2013
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO
Action Status: PSNRCD
Action Date: 10/15/2014
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action
Action Status: ACOP
Action Date: 11/13/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 11/26/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 11/26/2008
Response Action Outcome: Not reported

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 11/26/2008
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 11/29/2005
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action
Action Status: Notice of Non-Compliance Issued
Action Date: 11/29/2005
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Legal Notice Published
Action Date: 12/17/2008
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Valid Transition Site

COLLINS OIL (Continued) **S106863537**

Action Date: 4/15/1990
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 4/27/2015
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action
Action Status: Notice of Enforcement Conference
Action Date: 4/30/2014
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 4/8/2005
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action
Action Status: ACOP
Action Date: 5/19/2008
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 5/30/2014
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 6/2/2014
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action
Action Status: ACOP
Action Date: 7/14/2014
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action
Action Status: Notice of Enforcement Conference
Action Date: 8/22/2006
Response Action Outcome: Not reported

Action Type: BOL
Action Status: Transmittal, Notice, or Notification Received
Action Date: 8/22/2014
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action
Action Status: Notice of Non-Compliance Issued
Action Date: 9/11/2013
Response Action Outcome: Not reported

Action Type: BOL
Action Status: SHPFAC
Action Date: 9/30/2014
Response Action Outcome: Not reported

COLLINS OIL (Continued) **S106863537**

LUST:

Facility:

Release Tracking Number/Current Status:	3-0003003 / PSNC
Status Date:	10/15/2014
Source Type:	UST
Release Town:	HAVERHILL
Notification Date:	04/15/1990
Category:	NONE
Associated ID:	Not reported
Phase:	PHASE II
Response Action Outcome:	-
Oil Or Haz Material:	Not reported
Location Type:	FUEL DEPOT
Source:	UST
Source:	TANKDISP

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	UNKNOWN
Quantity:	Not reported

Actions:

Action Type:	Release Abatement Measure
Action Status:	Completion Statement Received
Action Date:	10/1/2014
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	10/15/2013
Response Action Outcome:	Not reported
Action Type:	Response Action Outcome - RAO
Action Status:	PSNRCD
Action Date:	10/15/2014
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	ACOP
Action Date:	11/13/2006
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	11/26/2008
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	11/26/2008
Response Action Outcome:	Not reported

COLLINS OIL (Continued) **S106863537**

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 11/26/2008
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 11/29/2005
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action
Action Status: Notice of Non-Compliance Issued
Action Date: 11/29/2005
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Legal Notice Published
Action Date: 12/17/2008
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Valid Transition Site
Action Date: 4/15/1990
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 4/27/2015
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action
Action Status: Notice of Enforcement Conference
Action Date: 4/30/2014
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 4/8/2005
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action
Action Status: ACOP
Action Date: 5/19/2008
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 5/30/2014
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 6/2/2014
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action
Action Status: ACOP

COLLINS OIL (Continued) **S106863537**

Action Date:	7/14/2014
Response Action Outcome:	Not reported

Action Type:	Compliance and Enforcement Action
Action Status:	Notice of Enforcement Conference
Action Date:	8/22/2006
Response Action Outcome:	Not reported

Action Type:	BOL
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	8/22/2014
Response Action Outcome:	Not reported

Action Type:	Compliance and Enforcement Action
Action Status:	Notice of Non-Compliance Issued
Action Date:	9/11/2013
Response Action Outcome:	Not reported

Action Type:	BOL
Action Status:	SHPFAC
Action Date:	9/30/2014
Response Action Outcome:	Not reported

Release:

Release Tracking Number/Current Status:	3-0003003 / PSNC
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	04/15/1990
Category:	NONE
Status Date:	10/15/2014
Phase:	PHASE II
Response Action Outcome:	-
Oil / Haz Material Type:	Not reported

Click here to access the MA DEP site for this facility:

ENFORCEMENT:

Region:	NERO
DEP Region:	NERO
DEP Program:	3R
DEP Bureau:	BWSC
Program:	BWSC
Program Id:	3-0003003
High Or Low Level Enforcement:	HLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Haverhill
Date Executed:	07/14/2014
ENF #:	ACOP-NE-14-3R017
Document Type:	ACOP
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	Y
Regional Comment:	Not reported

COLLINS OIL (Continued) **S106863537**

Final Payment Due Date:	01/30/2015
ACOP $:	$3,000.00
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	$27,000.00
Ownership:	Individually Owned

Region:	NERO
DEP Region:	NERO
DEP Program:	3A
DEP Bureau:	BWSC
Program:	BWSC
Program Id:	3-0003003
High Or Low Level Enforcement:	LLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Haverhill
Date Executed:	09/11/2013
ENF #:	NON-NE-13-3R025
Document Type:	NON
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	Y
Regional Comment:	Not reported
Final Payment Due Date:	Not reported
ACOP $:	Not reported
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	Not reported
Ownership:	Individually Owned

Region:	NERO
DEP Region:	NERO
DEP Program:	3A
DEP Bureau:	BWSC
Program:	Not reported
Program Id:	3-0003003
High Or Low Level Enforcement:	HLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Not reported
Date Executed:	05/19/2008
ENF #:	ACOP-NE-08-3A001
Document Type:	ACOP
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	Not reported
Regional Comment:	Not reported
Final Payment Due Date:	04/30/2009

COLLINS OIL (Continued) **S106863537**

ACOP $:	8000
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	12000
Ownership:	Individually Owned

Region:	NERO
DEP Region:	NERO
DEP Program:	3A
DEP Bureau:	BWSC
Program:	Not reported
Program Id:	3-0003003
High Or Low Level Enforcement:	HLE
FMF #:	Not reported
Comptroller Billing Name:	Malvers, Michael
Town Where Violation Occurred:	Not reported
Date Executed:	11/13/2006
ENF #:	ACOP-NE-06-3A032
Document Type:	ACOP
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	Not reported
Regional Comment:	Not reported
Final Payment Due Date:	11/13/2007
ACOP $:	5000
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	25000
Ownership:	Individually Owned

Y132 **NO LOCATION AID** **SHWS** **S106132426**
SE **WASHINGTON STREET @ MERRIMACK ST** **RELEASE** **N/A**
1/4-1/2 **HAVERHILL, MA 01830**
0.370 mi.
1954 ft. **Site 1 of 2 in cluster Y**

Relative:
Lower

Actual:
19 ft.

SHWS:

Release Tracking Number/Current Status:	3-0023462 / RAO
Release Town:	HAVERHILL
Notification Date:	01/26/2004
Category:	TWO HR
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	01/26/2004
Phase:	Not reported
Response Action Outcome:	A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil Or Haz Material:	Oil

NO LOCATION AID (Continued) **S106132426**

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	#4 FUEL OIL
Quantity:	50 gallons
Chemical:	DIESEL FUEL
Quantity:	35 gallons

Actions:

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	1/26/2004
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	1/26/2004
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	1/26/2004
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:

Release Tracking Number/Current Status:	3-0023462 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	01/26/2004
Category:	TWO HR
Status Date:	01/26/2004
Phase:	Not reported
Response Action Outcome:	A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Z133 **WHITE ST MOTORS** **SHWS** **1004296714**
ENE **60 WHITE ST** **RELEASE** **N/A**
1/4-1/2 **HAVERHILL, MA 01830**
0.373 mi.
1969 ft. **Site 1 of 2 in cluster Z**

Relative:
Higher

Actual:
91 ft.

SHWS:

Release Tracking Number/Current Status:	3-0000866 / RAO
Release Town:	HAVERHILL
Notification Date:	04/27/1994
Category:	NONE
Associated ID:	Not reported

WHITE ST MOTORS (Continued) **1004296714**

Current Status:	**Response Action Outcome**
Status Date:	04/04/1995
Phase:	PHASE II
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Not reported
Location Type:	COMMERCIAL

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	SOLVENT
Quantity:	Not reported

Actions:

Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	11/24/1995
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Disposition
Action Status:	Valid Transition Site
Action Date:	4/27/1994
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	4/27/1994
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	4/4/1995
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 1
Action Status:	Completion Statement Received
Action Date:	4/4/1995
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	An activity type that is related to an Audit
Action Status:	NOA
Action Date:	9/25/1995
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Release Tracking Number/Current Status:	3-0000866 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL

WHITE ST MOTORS (Continued) **1004296714**

Notification: 04/27/1994
Category: NONE
Status Date: 04/04/1995
Phase: PHASE II
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Not reported

Click here to access the MA DEP site for this facility:

134
East
1/4-1/2
0.377 mi.
1988 ft.

Relative:
Higher

Actual:
76 ft.

WINTER ST @ VINE STREET **LUST** **S112146180**
101 WINTER STREET **RELEASE** **N/A**
HAVERHILL, MA 01830

LUST:

Facility:
Release Tracking Number/Current Status: 3-0030941 / RAO
Status Date: 08/23/2012
Source Type: UST
Release Town: HAVERHILL
Notification Date: 07/12/2012
Category: 72 HR
Associated ID: Not reported
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material: Oil

Location Type: COMMERCIAL
Source: UST

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: #2 FUEL OIL
Quantity: 358 parts per million
Chemical: HEADSPACE READING
Quantity: 359 parts per million

Actions:
Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 7/12/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 7/12/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

WINTER ST @ VINE STREET (Continued) **S112146180**

Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	8/1/2012
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	BOL
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	8/1/2012
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	RNFE
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	8/1/2012
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	BOL
Action Status:	SHPFAC
Action Date:	8/15/2012
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	8/15/2012
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	8/23/2012
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Release Tracking Number/Current Status:	3-0030941 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	07/12/2012
Category:	72 HR
Status Date:	08/23/2012
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

135 South 1/4-1/2 0.381 mi. 2012 ft.

SERVICE STATION FMR
31-35 RIVER ST
HAVERHILL, MA 01830

LUST RELEASE

S105199705
N/A

Relative: Higher

Actual: 37 ft.

LUST:

Facility:

Release Tracking Number/Current Status:	3-0003888 / RAO
Status Date:	05/22/1996
Source Type:	UST
Release Town:	HAVERHILL
Notification Date:	04/15/1992
Category:	NONE
Associated ID:	Not reported
Phase:	Not reported
Response Action Outcome:	B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.
Oil Or Haz Material:	Oil
Location Type:	FORMER
Location Type:	GASSTATION
Source:	UST

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	PETROLEUM
Quantity:	Not reported

Actions:

Action Type:	Release Disposition
Action Status:	Valid Transition Site
Action Date:	4/15/1992
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	5/22/1996
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

Release:

Release Tracking Number/Current Status:	3-0003888 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	04/15/1992
Category:	NONE
Status Date:	05/22/1996
Phase:	Not reported
Response Action Outcome:	B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.
Oil / Haz Material Type:	Oil

SERVICE STATION FMR (Continued) **S105199705**

Click here to access the MA DEP site for this facility:

Y136
SE
1/4-1/2
0.383 mi.
2021 ft.

Relative:
Lower

Actual:
16 ft.

FRANKLIN BLOCK CONDO
200 MERRIMACK ST
HAVERHILL, MA

LUST **S105595378**
INST CONTROL **N/A**
RELEASE

Site 2 of 2 in cluster Y

LUST:

Facility:

Release Tracking Number/Current Status:	3-0021955 / RAO
Status Date:	05/20/2004
Source Type:	UST
Release Town:	HAVERHILL
Notification Date:	07/22/2002
Category:	72 HR
Associated ID:	Not reported
Phase:	PHASE II
Response Action Outcome:	B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Oil Or Haz Material:	Oil
Location Type:	COMMERCIAL
Source:	UST

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	FUEL OIL
Quantity:	230 parts per million
Chemical:	FUEL OIL #2
Quantity:	230 parts per million

Actions:

Action Type:	An activity type that is related to an Audit
Action Status:	NAFNVD
Action Date:	10/2/2007
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	12/10/2002
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	12/9/2003
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more

FRANKLIN BLOCK CONDO (Continued) **S105595378**

AULs that have been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 5/20/2004
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 5/20/2004
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation
Action Status: Transmittal, Notice, or Notification Received
Action Date: 5/20/2004
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 6/10/2003
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 7/22/2002
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 7/22/2002
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 7/28/2003
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 7/28/2003
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

FRANKLIN BLOCK CONDO (Continued) **S105595378**

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 7/28/2003
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 8/8/2002
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation
Action Status: Level II - Audit Inspection
Action Date: 9/18/2007
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 9/20/2002
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 9/20/2002
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: RLFA
Action Status: FLDRAN
Action Date: 9/20/2007
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

INST CONTROL:
Release Tracking Number: 3-0021955
Action Type: AUL
Action Stat: RECPT
Action Date: 05/20/2004
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number: 3-0021955
Action Type: AUL
Action Stat: SNAUDI
Action Date: 09/18/2007
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No

FRANKLIN BLOCK CONDO (Continued) **S105595378**

Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release:

Release Tracking Number/Current Status:	3-0021955 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	07/22/2002
Category:	72 HR
Status Date:	05/20/2004
Phase:	PHASE II
Response Action Outcome:	B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Z137
ENE
1/4-1/2
0.387 mi.
2045 ft.

NO LOCATION AID
73 WHITE ST
HAVERHILL, MA 01830

SHWS **S101019402**
SPILLS **N/A**
RELEASE

Site 2 of 2 in cluster Z

Relative:
Higher

Actual:
94 ft.

SHWS:

Release Tracking Number/Current Status:	3-0019553 / RAONR
Release Town:	HAVERHILL
Notification Date:	05/17/2000
Category:	72 HR
Associated ID:	3-0002330
Current Status:	**Response Action Outcome Not Required**
Status Date:	07/24/2000
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Oil
Location Type:	COMMERCIAL
Source:	UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	NAPL
Quantity:	.5 inches
Chemical:	GASOLINE
Quantity:	Not reported

Actions:

Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	12/20/2002
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	3/21/2001

NO LOCATION AID (Continued) **S101019402**

Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 4/23/2001
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 4/29/2002
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 5/17/2000
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 5/17/2000
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: IRA Assessment Only
Action Date: 5/17/2000
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 6/16/2000
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action
Action Status: Interim Deadline Letter Issued
Action Date: 6/16/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 7/14/2003
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 7/19/2000
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 7/19/2000
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 7/24/2000
Response Action Outcome: Not reported

NO LOCATION AID (Continued) **S101019402**

Action Type: RAO Not Required
Action Status: Linked to a Tier Classified Site
Action Date: 7/24/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 7/24/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 7/31/1996
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 7/31/1996
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 9/15/2000
Response Action Outcome: Not reported

Release Tracking Number/Current Status: 3-0002330 / RAO
Release Town: HAVERHILL
Notification Date: 01/15/1990
Category: NONE
Associated ID: 3-0002330
Current Status: **Response Action Outcome**
Status Date: 04/08/2004
Phase: PHASE III
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material: Not reported
Location Type: COMMERCIAL

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: UNKNOWN
Quantity: Not reported

Actions:
Action Type: Release Disposition
Action Status: Valid Transition Site
Action Date: 1/15/1990
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2
Action Status: Notice of Delay in Meeting RA Deadline Received
Action Date: 10/12/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

NO LOCATION AID (Continued) **S101019402**

reduced to background.

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 12/13/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 12/20/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: An activity type that is related to an Audit
Action Status: NOA
Action Date: 2/7/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 3/21/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 4/23/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 4/29/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 4/3/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 3
Action Status: Notice of Delay in Meeting RA Deadline Received
Action Date: 4/3/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2
Action Status: Notice of Delay in Meeting RA Deadline Received
Action Date: 4/7/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 3

NO LOCATION AID (Continued) **S101019402**

Action Status: Notice of Delay in Meeting RA Deadline Received
Action Date: 4/7/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 4/8/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 7/14/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 7/24/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Status: LSPFA
Action Date: 7/30/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 7/31/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 7/31/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 7/31/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release Tracking Number/Current Status: 3-0022213 / RAONR
Release Town: HAVERHILL
Notification Date: 10/16/2002
Category: 72 HR
Associated ID: Not reported
Current Status: **Response Action Outcome Not Required**
Status Date: 12/20/2002
Phase: Not reported
Response Action Outcome: -

NO LOCATION AID (Continued) **S101019402**

Oil Or Haz Material: Oil
Location Type: COMMERCIAL
Source: UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: GASOLINE
Quantity: 18 inches

Actions:
Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 10/16/2002
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 10/16/2002
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 12/20/2002
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 12/20/2002
Response Action Outcome: Not reported

Action Type: RAO Not Required
Action Status: Linked to a Tier Classified Site
Action Date: 12/20/2002
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 12/4/2002
Response Action Outcome: Not reported

MA Spills:

Facility ID:	3-2330	Spill ID:	N88-1474
Staff Lead:	MACAFEE, K	Date Entered:	19890104
Last Entered:	19940113	First Response:	19880922
Spill Date:	Not reported	Spill Time:	Not reported
Report Date:	19880920	Report Time:	02:15PM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	VIRGIN	Contam Soil:	Not reported
Env Impact:	SOIL	Other Impact:	Not reported
Material:	GASOLINE	Other Material:	Not reported
Qty Reported:	NONE	Qty Actual:	NONE
Qty Reported:	----------	Qty Actual:	----------
CAS No:	Not reported	PCB Lev (ppm):	----------
Source:	U.S.T.	Other Source:	Not reported

NO LOCATION AID (Continued) **S101019402**

Incident:	LEAK	Other Incdnt:	Not reported
Cleanup Type:	Not reported	Contractor:	NOT USED
Referral:	SA	LUST Elig:	---
Report Prep:	Not reported	Category:	Not reported
Notifier:	Not reported		
Notif Tel:	Not reported		
Days/Close:	0		

Release:

Release Tracking Number/Current Status:	3-0002330 / RAO
Primary ID:	3-0002330
Official City:	HAVERHILL
Notification:	01/15/1990
Category:	NONE
Status Date:	04/08/2004
Phase:	PHASE III
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type:	Not reported

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0019553 / RAONR
Primary ID:	3-0002330
Official City:	HAVERHILL
Notification:	05/17/2000
Category:	72 HR
Status Date:	07/24/2000
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0022213 / RAONR
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	10/16/2002
Category:	72 HR
Status Date:	12/20/2002
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

138
North
1/4-1/2
0.394 mi.
2082 ft.

NO LOCATION AID
124 HALE ST
HAVERHILL, MA 01830

SHWS **S103383764**
RELEASE **N/A**

Relative:
Higher

Actual:
26 ft.

SHWS:

Release Tracking Number/Current Status:	3-0017115 / RAO
Release Town:	HAVERHILL
Notification Date:	08/03/1998
Category:	120 DY
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	08/03/1999
Phase:	Not reported
Response Action Outcome:	A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil Or Haz Material:	Not reported

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	PETROLEUM HYDROCARBONS
Quantity:	290 parts per million
Chemical:	PETROLEUM HYDROCARBONS
Quantity:	4.1 parts per million

Actions:

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	3/31/1999
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	8/3/1998
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	8/3/1998
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	8/3/1999
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Response Action Outcome - RAO
Action Status:	Fee Received - FMCRA Use Only
Action Date:	8/5/1999
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

NO LOCATION AID (Continued) **S103383764**

Release:

Release Tracking Number/Current Status:	3-0017115 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	08/03/1998
Category:	120 DY
Status Date:	08/03/1999
Phase:	Not reported
Response Action Outcome:	A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil / Haz Material Type:	Not reported

Click here to access the MA DEP site for this facility:

139
NNE
1/4-1/2
0.399 mi.
2108 ft.

NO LOCATION AID
234 PRIMROSE ST
HAVERHILL, MA

SHWS **S104562586**
RELEASE **N/A**

Relative:
Higher

Actual:
41 ft.

SHWS:

Release Tracking Number/Current Status:	3-0019548 / RAO
Release Town:	HAVERHILL
Notification Date:	05/15/2000
Category:	120 DY
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	07/03/2000
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Oil

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	C11 THRU C22 AROMATIC HYDROCARBONS
Quantity:	660 milligrams per kilogram
Chemical:	C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity:	1700 milligrams per kilogram
Chemical:	C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity:	7400 micrograms per liter

Actions:

Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	5/15/2000
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	5/15/2000
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

NO LOCATION AID (Continued) **S104562586**

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 5/22/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Fee Received - FMCRA Use Only
Action Date: 5/26/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 7/28/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 7/3/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 7/3/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Release Tracking Number/Current Status: 3-0019548 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 05/15/2000
Category: 120 DY
Status Date: 07/03/2000
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

---

140 ESE 1/4-1/2 0.404 mi. 2133 ft.

PROPERTY
163 MERRIMACK ST
HAVERHILL, MA 01830

SHWS RELEASE **S100361386 N/A**

Relative: Lower

Actual: 21 ft.

SHWS:
Release Tracking Number/Current Status: 3-0001852 / RAO
Release Town: HAVERHILL
Notification Date: 01/15/1989
Category: NONE

PROPERTY (Continued) **S100361386**

Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	12/23/1996
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Not reported

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	UNKNOWN
Quantity:	Not reported

Actions:

Action Type:	Release Disposition
Action Status:	Valid Transition Site
Action Date:	1/15/1989
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	12/23/1996
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	TREGS
Action Status:	PENNFA
Action Date:	4/16/1996
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Release Tracking Number/Current Status:	3-0001852 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	01/15/1989
Category:	NONE
Status Date:	12/23/1996
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type:	Not reported

Click here to access the MA DEP site for this facility:

141 NE 1/4-1/2 0.411 mi. 2170 ft.

NO LOCATION AID
23-25 NICHOLS ST
HAVERHILL, MA

LAST RELEASE

S104516941
N/A

Relative: Higher

Actual: 96 ft.

LAST:

Release Tracking Number/Current Status:	3-0010552 / RAO
Source Type:	AST
Release Town:	HAVERHILL
Notification Date:	02/08/1994
Category:	TWO HR
Associated ID:	Not reported
Status Date:	07/20/1994
Phase:	Not reported
Response Action Outcome:	A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil Or Haz Material:	Oil

Chemicals:

Chemical:	#2 FUEL OIL
Quantity:	50 gallons
Chemical:	#2 FUEL OIL
Quantity:	100 gallons
Location Type:	RESIDNTIAL
Source:	AST

Actions:

Action Type:	Response Action Outcome - RAO
Action Status:	Fee Received - FMCRA Use Only
Action Date:	10/7/1994
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	2/8/1994
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	3/16/1994
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	7/20/1994
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Compliance and Enforcement Action
Action Status:	Notice of Non-Compliance Issued
Action Date:	8/16/1994
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E

NO LOCATION AID (Continued) **S104516941**

Action Date: 8/23/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Release Tracking Number/Current Status: 3-0010552 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 02/08/1994
Category: TWO HR
Status Date: 07/20/1994
Phase: Not reported
Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

142
NW
1/4-1/2
0.417 mi.
2203 ft.

Relative:
Higher

Actual:
32 ft.

NO LOCATION AID
140 HILLDALE AVENUE
HAVERHILL, MA 01832

SHWS **S107405573**
RELEASE **N/A**
HW GEN

SHWS:
Release Tracking Number/Current Status: 3-0030897 / URAM
Release Town: HAVERHILL
Notification Date: 06/25/2012
Category: 120 DY
Associated ID: Not reported
Current Status: **URAM**
Status Date: 06/27/2012
Phase: Not reported
Response Action Outcome: -
Oil Or Haz Material: Oil and Hazardous Material
Location Type: PRIVPROP
Location Type: INDUSTRIAL
Source: UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: LEAD
Quantity: 9900 milligrams per kilogram
Chemical: C11 THRU C22 AROMATIC HYDROCARBONS
Quantity: 4160 milligrams per kilogram

Actions:
Action Type: Utility-related Abatement Measure
Action Status: Notice of Intent to Conduct a URAM
Action Date: 6/25/2012
Response Action Outcome: Not reported

Action Type: Release Disposition

NO LOCATION AID (Continued) **S107405573**

Action Status:	Reportable Release under MGL 21E
Action Date:	6/25/2012
Response Action Outcome:	Not reported
Action Type:	Utility-related Abatement Measure
Action Status:	Notification of URAM Received
Action Date:	6/27/2012
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	URAMLR
Action Date:	6/27/2012
Response Action Outcome:	Not reported
Action Type:	BOL
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	8/30/2012
Response Action Outcome:	Not reported
Action Type:	BOL
Action Status:	SHPFAC
Action Date:	9/19/2012
Response Action Outcome:	Not reported
Action Type:	Utility-related Abatement Measure
Action Status:	Completion Statement Received
Action Date:	9/20/2012
Response Action Outcome:	Not reported

Release Tracking Number/Current Status:	3-0032815 / URAM
Release Town:	HAVERHILL
Notification Date:	04/14/2015
Category:	120 DY
Associated ID:	Not reported
Current Status:	**URAM**
Status Date:	04/21/2015
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Hazardous Material
Location Type:	INDUSTRIAL
Location Type:	PRIVPROP
Source:	3-25110
Source:	RTN
Source:	3-323
Source:	UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	BENZO(A)PYRENE
Quantity:	22 milligrams per kilogram
Chemical:	LEAD
Quantity:	830 milligrams per kilogram
Chemical:	NAPHTHALENE
Quantity:	26 milligrams per kilogram

NO LOCATION AID (Continued) **S107405573**

Actions:

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	4/14/2015
Response Action Outcome:	Not reported
Action Type:	Utility-related Abatement Measure
Action Status:	Notice of Intent to Conduct a URAM
Action Date:	4/14/2015
Response Action Outcome:	Not reported
Action Type:	Utility-related Abatement Measure
Action Status:	Completion Statement Received
Action Date:	4/21/2015
Response Action Outcome:	Not reported
Action Type:	Utility-related Abatement Measure
Action Status:	Notification of URAM Received
Action Date:	4/21/2015
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	URAMLR
Action Date:	4/22/2015
Response Action Outcome:	Not reported

Release Tracking Number/Current Status:	3-0030582 / URAM
Release Town:	HAVERHILL
Notification Date:	01/17/2012
Category:	120 DY
Associated ID:	Not reported
Current Status:	**URAM**
Status Date:	01/23/2012
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Oil and Hazardous Material
Location Type:	INDUSTRIAL
Location Type:	PRIVPROP
Source:	UNKNOWN
Source:	HISTORICL

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	C11 THRU C22 AROMATIC HYDROCARBONS
Quantity:	490 milligrams per kilogram
Chemical:	NAPHTHALENE
Quantity:	13 milligrams per kilogram

Actions:

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	1/17/2012
Response Action Outcome:	Not reported

NO LOCATION AID (Continued) **S107405573**

Action Type:	Utility-related Abatement Measure
Action Status:	Notice of Intent to Conduct a URAM
Action Date:	1/17/2012
Response Action Outcome:	Not reported

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	URAMLR
Action Date:	1/20/2012
Response Action Outcome:	Not reported

Action Type:	Utility-related Abatement Measure
Action Status:	Notification of URAM Received
Action Date:	1/23/2012
Response Action Outcome:	Not reported

Action Type:	Utility-related Abatement Measure
Action Status:	Completion Statement Received
Action Date:	3/26/2012
Response Action Outcome:	Not reported

Release Tracking Number/Current Status:	3-0025112 / DPS
Release Town:	HAVERHILL
Notification Date:	08/08/2005
Category:	120 DY
Associated ID:	Not reported
Current Status:	**Downgradient Property Status**
Status Date:	03/22/2006
Phase:	PHASE II
Response Action Outcome:	-
Oil Or Haz Material:	Oil and Hazardous Material

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	LEAD
Quantity:	9900 milligrams per kilogram
Chemical:	CYANIDE
Quantity:	77 micrograms per liter
Chemical:	C11 THRU C22 AROMATIC HYDROCARBONS
Quantity:	4160 milligrams per kilogram

Actions:

Action Type:	Downgradient Property Status
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	3/22/2006
Response Action Outcome:	Not reported

Action Type:	Phase 1
Action Status:	Completion Statement Received
Action Date:	3/22/2006
Response Action Outcome:	Not reported

Action Type:	Downgradient Property Status
Action Status:	Fee Received - FMCRA Use Only
Action Date:	3/28/2006

NO LOCATION AID (Continued) **S107405573**

Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Status: Fee Not Required - Fee Refunded-FMCRA Use Only
Action Date: 7/10/2006
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 8/11/2005
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 8/8/2005
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 8/8/2005
Response Action Outcome: Not reported

Release:
Release Tracking Number/Current Status: 3-0025112 / DPS
Primary ID: Not reported
Official City: HAVERHILL
Notification: 08/08/2005
Category: 120 DY
Status Date: 03/22/2006
Phase: PHASE II
Response Action Outcome: -
Oil / Haz Material Type: Oil and Hazardous Material

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status: 3-0030582 / URAM
Primary ID: Not reported
Official City: HAVERHILL
Notification: 01/17/2012
Category: 120 DY
Status Date: 01/23/2012
Phase: Not reported
Response Action Outcome: -
Oil / Haz Material Type: Oil and Hazardous Material

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status: 3-0030897 / URAM
Primary ID: Not reported
Official City: HAVERHILL
Notification: 06/25/2012
Category: 120 DY
Status Date: 06/27/2012
Phase: Not reported

NO LOCATION AID (Continued) **S107405573**

Response Action Outcome: -
Oil / Haz Material Type: Oil and Hazardous Material

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status: 3-0032815 / URAM
Primary ID: Not reported
Official City: HAVERHILL
Notification: 04/14/2015
Category: 120 DY
Status Date: 04/21/2015
Phase: Not reported
Response Action Outcome: -
Oil / Haz Material Type: Hazardous Material

Click here to access the MA DEP site for this facility:

HW GEN:
EPA Id: MAD981204316
RCRA Generator Status: LQG
State Generator Status: VQG-MA

143
NW
1/4-1/2
0.421 mi.
2222 ft.

Relative:
Higher

Actual:
35 ft.

AT DIVERSIFIED BUSINESS SYST **SHWS** **S104516961**
144 HILLDALE AVE **RELEASE** **N/A**
HAVERHILL, MA 01830 **HW GEN**

SHWS:
Release Tracking Number/Current Status: 3-0013787 / RAO
Release Town: HAVERHILL
Notification Date: 05/18/1996
Category: TWO HR
Associated ID: Not reported
Current Status: **Response Action Outcome**
Status Date: 07/18/1996
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material: Hazardous Material
Location Type: COMMERCIAL
Source: VEHICLE
Source: HOLDING
Source: TANK ON

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: PCE
Quantity: 35 gallons

Actions:
Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E

AT DIVERSIFIED BUSINESS SYST (Continued) **S104516961**

Action Date: 5/18/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 5/18/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 6/6/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 7/18/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 7/18/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Release Tracking Number/Current Status: 3-0013787 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 05/18/1996
Category: TWO HR
Status Date: 07/18/1996
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Hazardous Material

Click here to access the MA DEP site for this facility:

HW GEN:
EPA Id: MAV000010007
RCRA Generator Status: VSQG
State Generator Status: Not reported

144 NNE 1/4-1/2 0.422 mi. 2228 ft. | **MOTORVATION**
79 SIXTH AVE
HAVERHILL, MA 01830 | **LUST**
INST CONTROL
RELEASE | **S106030484**
N/A

Relative: Higher

Actual: 55 ft.

LUST:

Facility:

Release Tracking Number/Current Status:	3-0022813 / RAO
Status Date:	02/22/2005
Source Type:	UST
Release Town:	HAVERHILL
Notification Date:	04/24/2003
Category:	72 HR
Associated ID:	Not reported
Phase:	PHASE II
Response Action Outcome:	A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Oil Or Haz Material:	Oil and Hazardous Material
Location Type:	COMMERCIAL
Source:	UST

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	WASTE OIL
Quantity:	105 parts per million
Chemical:	LEAD
Quantity:	370 parts per million
Chemical:	WASTE OIL
Quantity:	105 gallons
Chemical:	PCB
Quantity:	126 parts per million

Actions:

Action Type:	Activity and Use Limitation
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	1/12/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	10/9/2003
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	An activity type that is related to an Audit
Action Status:	NAFNVD
Action Date:	12/13/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

MOTORVATION (Continued) **S106030484**

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 2/22/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Fee Received - FMCRA Use Only
Action Date: 2/22/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 3/30/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Fee Not Required - Fee Credited-FMCRA Use Only
Action Date: 4/13/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 4/24/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 4/24/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 4/30/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 4/30/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 1

MOTORVATION (Continued) **S106030484**

Action Status: Completion Statement Received
Action Date: 4/30/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Legal Notice Published
Action Date: 5/6/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 6/28/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Partial RAO for this RTN
Action Status: RAO Statement Received
Action Date: 6/28/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Status: Level II - Audit Inspection
Action Date: 8/10/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Status: FLDRAN
Action Date: 8/10/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 9/24/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 9/24/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

MOTORVATION (Continued) **S106030484**

INST CONTROL:

Release Tracking Number:	3-0022813
Action Type:	AUL
Action Stat:	RECPT
Action Date:	01/12/2005
Response Action Outcome:	A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release Tracking Number:	3-0022813
Action Type:	AUL
Action Stat:	SNAUDI
Action Date:	08/10/2005
Response Action Outcome:	A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release:

Release Tracking Number/Current Status:	3-0022813 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	04/24/2003
Category:	72 HR
Status Date:	02/22/2005
Phase:	PHASE II
Response Action Outcome:	A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Oil / Haz Material Type:	Oil and Hazardous Material

Click here to access the MA DEP site for this facility:

---

145 South 1/4-1/2 0.426 mi. 2248 ft. | **PROPERTY 70 RIVER ST HAVERHILL, MA 01830** | **LAST RELEASE LEAD** | **S101696365 N/A**

Relative: Lower

Actual: 17 ft.

LAST:

Release Tracking Number/Current Status:	3-0006024 / RAO
Source Type:	AST
Release Town:	HAVERHILL
Notification Date:	03/14/1994
Category:	NONE
Associated ID:	Not reported
Status Date:	05/17/1995
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Not reported

Chemicals:

Chemical:	UNKNOWN
Quantity:	Not reported
Location Type:	RESIDNTIAL
Source:	AST

PROPERTY (Continued) **S101696365**

Actions:

Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	12/22/1994
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Disposition
Action Status:	Valid Transition Site
Action Date:	3/14/1994
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	3/14/1994
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	3/14/1994
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	5/17/1995
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Release Tracking Number/Current Status:	3-0006024 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	03/14/1994
Category:	NONE
Status Date:	05/17/1995
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type:	Not reported

Click here to access the MA DEP site for this facility:

LEAD:

Community:	Haverhill
Unit:	COMMO
Inspector Name:	Not reported
Inspector License Number:	Not reported
Activity Type:	INSPECT
Activity Date:	07/27/1994
Start Work Date:	08/04/1994
Activity Descriptions:	Comprehensive Initial Inspection

PROPERTY (Continued) **S101696365**

Outcomes:	Completed - Contact CLPPP for more information
Community:	Haverhill
Unit:	STAI
Inspector Name:	Not reported
Inspector License Number:	Not reported
Activity Type:	INSPECT
Activity Date:	07/27/1994
Start Work Date:	08/04/1994
Activity Descriptions:	Comprehensive Initial Inspection
Outcomes:	Completed - Contact CLPPP for more information

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146 ENE 1/4-1/2 0.452 mi. 2386 ft. | **PEASLEY ESTATE FMR BARTLETT AVE HAVERHILL, MA 01830** | **SHWS RELEASE** | **S100828897 N/A**

Relative: Higher

Actual: 101 ft.

SHWS:

Release Tracking Number/Current Status:	3-0000879 / DEPNDS
Release Town:	HAVERHILL
Notification Date:	10/15/1988
Category:	NONE
Associated ID:	Not reported
Current Status:	**Not a Disposal Site (DEP)**
Status Date:	05/16/1996
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Not reported

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	UNKNOWN
Quantity:	Not reported

Actions:

Action Type:	Release Disposition
Action Status:	Valid Transition Site
Action Date:	10/15/1988
Response Action Outcome:	Not reported
Action Type:	TREGS
Action Status:	DEPNDS
Action Date:	5/16/1996
Response Action Outcome:	Not reported

Release:

Release Tracking Number/Current Status:	3-0000879 / DEPNDS
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	10/15/1988
Category:	NONE
Status Date:	05/16/1996
Phase:	Not reported

PEASLEY ESTATE FMR (Continued) **S100828897**

Response Action Outcome: -
Oil / Haz Material Type: Not reported

Click here to access the MA DEP site for this facility:

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147 North 1/4-1/2 0.462 mi. 2437 ft.

NO LOCATION AID
261 PRIMROSE ST
HAVERHILL, MA 01831

SHWS RELEASE **S105735917 N/A**

Relative: Higher

Actual: 37 ft.

SHWS:
Release Tracking Number/Current Status: 3-0022249 / RAO
Release Town: HAVERHILL
Notification Date: 10/25/2002
Category: 120 DY
Associated ID: Not reported
Current Status: **Response Action Outcome**
Status Date: 05/12/2003
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material: Oil and Hazardous Material

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity: 2690 milligrams per kilogram
Chemical: BENZO[A]PYRENE
Quantity: 6.39 milligrams per kilogram
Chemical: BENZO[B]FLUORANTHENE
Quantity: 6.41 milligrams per kilogram
Chemical: C9 THRU C10 AROMATIC HYDROCARBONS
Quantity: 601 milligrams per kilogram
Chemical: NAPHTHALENE
Quantity: 21.8 milligrams per kilogram
Chemical: 2-METHYLNAPHTHALENE
Quantity: 33.8 milligrams per kilogram
Chemical: BENZO(K)FLUORANTHENE
Quantity: 7.16 milligrams per kilogram
Chemical: NAPHTHALENE
Quantity: 4.6 milligrams per kilogram
Chemical: BENZO[A]ANTHRACENE
Quantity: 5.54 milligrams per kilogram
Chemical: C11 THRU C22 AROMATIC HYDROCARBONS
Quantity: 1840 milligrams per kilogram
Chemical: INDENO(1,2,3-CD)PYRENE
Quantity: 3.73 milligrams per kilogram

Actions:
Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 10/25/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

NO LOCATION AID (Continued) **S105735917**

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 10/25/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 10/31/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 11/15/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 2/21/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 5/12/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Release Tracking Number/Current Status: 3-0022249 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 10/25/2002
Category: 120 DY
Status Date: 05/12/2003
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Oil and Hazardous Material

Click here to access the MA DEP site for this facility:

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148 South 1/4-1/2 0.465 mi. 2456 ft.

UPPER COUNTY BRIDGE PROJECT
SOUTH ELM STREET AND RIVER ST
HAVERHILL, MA

SHWS RELEASE **S106863357 N/A**

Relative: Lower

Actual: 0 ft.

SHWS:
Release Tracking Number/Current Status: 3-0024662 / URAM
Release Town: HAVERHILL
Notification Date: 02/25/2005
Category: 120 DY

UPPER COUNTY BRIDGE PROJECT (Continued) **S106863357**

Associated ID:	Not reported
Current Status:	**URAM**
Status Date:	03/03/2005
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Oil
Location Type:	COMMERCIAL
Source:	UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	PETROLEUM
Quantity:	820 parts per million
Chemical:	SVOCS
Quantity:	5.3 parts per million
Chemical:	TPH
Quantity:	820 milligrams per kilogram

Actions:

Action Type:	Utility-related Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	12/20/2006
Response Action Outcome:	Not reported
Action Type:	Utility-related Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	12/29/2005
Response Action Outcome:	Not reported
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	2/25/2005
Response Action Outcome:	Not reported
Action Type:	Utility-related Abatement Measure
Action Status:	Notice of Intent to Conduct a URAM
Action Date:	2/25/2005
Response Action Outcome:	Not reported
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	3/3/2005
Response Action Outcome:	Not reported
Action Type:	Utility-related Abatement Measure
Action Status:	Notification of URAM Received
Action Date:	3/3/2005
Response Action Outcome:	Not reported
Action Type:	Utility-related Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	6/22/2006
Response Action Outcome:	Not reported
Action Type:	Utility-related Abatement Measure

UPPER COUNTY BRIDGE PROJECT (Continued) **S106863357**

Action Status:	Status or Interim Report Received
Action Date:	6/24/2005
Response Action Outcome:	Not reported
Action Type:	Utility-related Abatement Measure
Action Status:	Completion Statement Received
Action Date:	9/27/2007
Response Action Outcome:	Not reported

Release:

Release Tracking Number/Current Status:	3-0024662 / URAM
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	02/25/2005
Category:	120 DY
Status Date:	03/03/2005
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

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149 North 1/4-1/2 0.472 mi. 2491 ft.

Relative: Higher

Actual: 36 ft.

RONNIES OIL
163 EIGHTH AVE
HAVERHILL, MA 01830

LUST RELEASE **S105199626 N/A**

LUST:

Facility:

Release Tracking Number/Current Status:	3-0003343 / PENNFA
Status Date:	07/10/1996
Source Type:	UST
Release Town:	HAVERHILL
Notification Date:	08/27/1990
Category:	NONE
Associated ID:	Not reported
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Not reported
Location Type:	OIL CO
Source:	UST

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	UNKNOWN
Quantity:	Not reported

Actions:

Action Type:	TREGS
Action Status:	PENNFA

RONNIES OIL (Continued) **S105199626**

Action Date: 7/10/1996
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Valid Transition Site
Action Date: 8/27/1990
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 8/27/1990
Response Action Outcome: Not reported

Release:
Release Tracking Number/Current Status: 3-0003343 / PENNFA
Primary ID: Not reported
Official City: HAVERHILL
Notification: 08/27/1990
Category: NONE
Status Date: 07/10/1996
Phase: Not reported
Response Action Outcome: -
Oil / Haz Material Type: Not reported

Click here to access the MA DEP site for this facility:

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150 ENE 1/2-1 0.512 mi. 2703 ft. | **NO LOCATION AID 140 WHITE ST HAVERHILL, MA** | **SHWS RELEASE** | **S105596375 N/A**

Relative: Higher

Actual: 118 ft.

SHWS:
Release Tracking Number/Current Status: 3-0021858 / RAO
Release Town: HAVERHILL
Notification Date: 06/17/2002
Category: 120 DY
Associated ID: Not reported
Current Status: **Response Action Outcome**
Status Date: 10/18/2002
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material: Oil
Location Type: RESIDNTIAL
Source: UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: TOTAL PETROLEUM HYDROCARBONS (TPH)
Quantity: 949 milligrams per kilogram
Chemical: OIL
Quantity: Not reported

NO LOCATION AID (Continued) **S105596375**

Actions:

Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	10/18/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Abatement Measure
Action Status:	Completion Statement Received
Action Date:	10/18/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	6/17/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Abatement Measure
Action Status:	Oral Approval of Plan or Action
Action Date:	6/17/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	7/11/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	7/15/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Abatement Measure
Action Status:	Fee Received - FMCRA Use Only
Action Date:	7/15/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Abatement Measure
Action Status:	Written Plan Received
Action Date:	7/15/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Release Tracking Number/Current Status:	3-0021858 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	06/17/2002
Category:	120 DY

NO LOCATION AID (Continued) **S105596375**

Status Date: 10/18/2002
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

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151 East 1/2-1 0.519 mi. 2742 ft.

GAR PARK
BAILEY BLVD
HAVERHILL, MA 01830

SHWS **S102618515**
INST CONTROL **N/A**
RELEASE
ENF

Relative: Higher

Actual: 43 ft.

SHWS:
Release Tracking Number/Current Status: 3-0015115 / RAO
Release Town: HAVERHILL
Notification Date: 05/16/1997
Category: 120 DY
Associated ID: Not reported
Current Status: **Response Action Outcome**
Status Date: 05/14/1999
Phase: PHASE II
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Oil Or Haz Material: Oil and Hazardous Material

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: NAPHTHALENE
Quantity: 38 parts per million
Chemical: VINYL CHLORIDE
Quantity: 9.7 parts per billion
Chemical: TPH
Quantity: 3400 parts per million

Actions:
Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 5/13/2002
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation
Action Status: Transmittal, Notice, or Notification Received
Action Date: 5/14/1999
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 5/14/1999

GAR PARK (Continued) **S102618515**

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 5/16/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 5/16/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 5/22/1998
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 5/22/1998
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 5/22/1998
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: RLFA
Action Status: FLDD1A
Action Date: 6/20/2007
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation
Action Status: Level II - Audit Inspection
Action Date: 6/20/2007
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: RLFA
Action Status: FLDRUN
Action Date: 6/20/2007
Response Action Outcome: Remedial actions have not been conducted because a level of No

GAR PARK (Continued) **S102618515**

Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Compliance and Enforcement Action
Action Status: Interim Deadline Letter Issued
Action Date: 6/29/2007
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: An activity type that is related to an Audit
Action Status: NAFNVD
Action Date: 6/29/2007
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 9/23/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

INST CONTROL:
Release Tracking Number: 3-0015115
Action Type: AUL
Action Stat: RECPT
Action Date: 05/14/1999
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number: 3-0015115
Action Type: AUL
Action Stat: SNAUDI
Action Date: 06/20/2007
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release:
Release Tracking Number/Current Status: 3-0015115 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 05/16/1997
Category: 120 DY
Status Date: 05/14/1999
Phase: PHASE II
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Oil / Haz Material Type: Oil and Hazardous Material

GAR PARK (Continued) **S102618515**

Click here to access the MA DEP site for this facility:

ENFORCEMENT:

Region:	NERO
DEP Region:	NERO
DEP Program:	3A
DEP Bureau:	BWSC
Program:	Not reported
Program Id:	3-0015115
High Or Low Level Enforcement:	LLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Not reported
Date Executed:	06/29/2007
ENF #:	Not reported
Document Type:	IDL
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	Not reported
Regional Comment:	Not reported
Final Payment Due Date:	Not reported
ACOP $:	Not reported
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	Not reported
Ownership:	Municipally Owned

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152 East 1/2-1 0.531 mi. 2806 ft. | **WADLEIGH HOUSE YMCA**
170 MAIN STREET
HAVERHILL, MA 01832 | **SHWS RELEASE LEAD** | **S107299460 N/A**

Relative: Higher

Actual: 111 ft.

SHWS:

Release Tracking Number/Current Status:	3-0032033 / DPS
Release Town:	HAVERHILL
Notification Date:	02/28/2014
Category:	120 DY
Associated ID:	Not reported
Current Status:	**Downgradient Property Status**
Status Date:	02/23/2015
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Hazardous Material
Source:	UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	TETRACHLOROETHENE
Quantity:	91.4 micrograms per liter

WADLEIGH HOUSE YMCA (Continued) **S107299460**

Actions:

Action Type:	Downgradient Property Status
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	2/23/2015
Response Action Outcome:	Not reported
Action Type:	RNFE
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	2/28/2014
Response Action Outcome:	Not reported
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	2/28/2014
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	3/12/2014
Response Action Outcome:	Not reported
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	3/20/2014
Response Action Outcome:	Not reported
Action Type:	Downgradient Property Status
Action Status:	Fee Received - FMCRA Use Only
Action Date:	3/3/2015
Response Action Outcome:	Not reported
Action Type:	Downgradient Property Status
Action Status:	Level I - Technical Screen Audit
Action Date:	4/24/2015
Response Action Outcome:	Not reported

Release:

Release Tracking Number/Current Status:	3-0032033 / DPS
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	02/28/2014
Category:	120 DY
Status Date:	02/23/2015
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Hazardous Material

Click here to access the MA DEP site for this facility:

LEAD:

Community:	Haverhill
Unit:	Not reported
Inspector Name:	Richard Holmes
Inspector License Number:	1837

WADLEIGH HOUSE YMCA (Continued) **S107299460**

Activity Type:	INSPECT
Activity Date:	05/13/2000
Start Work Date:	Not reported
Activity Descriptions:	Comprehensive Initial Inspection
Outcomes:	Hazards Found

AA153
ENE
1/2-1
0.537 mi.
2836 ft.

ROADWAY
200 MAIN ST
HAVERHILL, MA 01830

Site 1 of 2 in cluster AA

SHWS **S103811843**
LUST **N/A**
RELEASE
HW GEN

Relative:
Higher

Actual:
119 ft.

SHWS:

Release Tracking Number/Current Status:	3-0011990 / RAO
Release Town:	HAVERHILL
Notification Date:	12/21/1994
Category:	TWO HR
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	02/27/1995
Phase:	Not reported
Response Action Outcome:	A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil Or Haz Material:	Oil
Source:	FUELTANK
Source:	VEHICLE

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	DIESEL FUEL
Quantity:	25 gallons
Chemical:	DIESEL FUEL
Quantity:	30 gallons

Actions:

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	1/13/1995
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	12/12/1994
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	12/21/1994
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	RLFA
Action Status:	FOLFLD
Action Date:	12/22/1994

ROADWAY (Continued) **S103811843**

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 12/22/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 12/29/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 2/27/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 2/27/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

LUST:

Facility:
Release Tracking Number/Current Status: 3-0015963 / RAO
Status Date: 01/25/1999
Source Type: UST
Release Town: HAVERHILL
Notification Date: 01/30/1998
Category: 72 HR
Associated ID: Not reported
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material: Oil

Location Type: COMMERCIAL
Source: UST

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: FUEL OIL #2
Quantity: Not reported

Actions:
Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received

ROADWAY (Continued) **S103811843**

Action Date: 1/25/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 1/30/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 1/30/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Fee Received - FMCRA Use Only
Action Date: 2/1/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 2/19/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 4/7/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Release Tracking Number/Current Status: 3-0011990 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 12/21/1994
Category: TWO HR
Status Date: 02/27/1995
Phase: Not reported
Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status: 3-0015963 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 01/30/1998
Category: 72 HR
Status Date: 01/25/1999
Phase: Not reported

ROADWAY (Continued) **S103811843**

Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

HW GEN:
EPA Id: MV9783747148
RCRA Generator Status: Not reported
State Generator Status: SQG-MA

AA154 **IMPERIAL CLEANERS** **SHWS** **1000215057**
ENE **200 MAIN ST** **UST** **N/A**
1/2-1 **HAVERHILL, MA 01830** **RELEASE**
0.537 mi. **Financial Assurance**
2836 ft. **Site 2 of 2 in cluster AA**

Relative: Higher

Actual: 119 ft.

SHWS:
Release Tracking Number/Current Status: 3-0032241 / TIERII
Release Town: HAVERHILL
Notification Date: 06/16/2014
Category: 120 DY
Associated ID: 3-0032241
Current Status: **Tier II, A site/release receiving a total NRS score of less than 350, unless the site meets any of the Tier 1 Inclusionary Criteria (see above). Permits are not required at Tier 2 sites/releases and response actions may be performed under the supervision of an LSP without prior DEP approval. All pre-1993 transition sites that have accepted waivers are categorically Tier 2 sites.**
Status Date: 06/24/2015
Phase: PHASE II
Response Action Outcome: -
Oil Or Haz Material: Hazardous Material
Source: UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: TETRACHLOROETHANE
Quantity: 91.4 micrograms per liter

Actions:
Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: ALSENT
Action Date: 5/1/2015
Response Action Outcome: Not reported

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 6/16/2014
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 6/16/2014

IMPERIAL CLEANERS (Continued) **1000215057**

Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 6/16/2014
Response Action Outcome: Not reported

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 6/24/2015
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 6/24/2015
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 6/24/2015
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 6/24/2015
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Legal Notice Published
Action Date: 6/26/2015
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 7/8/2014
Response Action Outcome: Not reported

Release Tracking Number/Current Status: 3-0032091 / RAONR
Release Town: HAVERHILL
Notification Date: 04/16/2014
Category: 120 DY
Associated ID: 3-0032241
Current Status: **Response Action Outcome Not Required**
Status Date: 06/24/2015
Phase: Not reported
Response Action Outcome: -
Oil Or Haz Material: Hazardous Material
Location Type: COMMERCIAL
Location Type: PRIVPROP
Source: UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: PCE

IMPERIAL CLEANERS (Continued) **1000215057**

Quantity: 91.4 micrograms per liter

Actions:

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: ALSENT
Action Date: 2/9/2015
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 3/13/2015
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Notice of Delay in Meeting RA Deadline Received
Action Date: 3/18/2015
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 4/16/2014
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 4/16/2014
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 6/24/2015
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 6/24/2015
Response Action Outcome: Not reported

Action Type: RAO Not Required
Action Status: Linked to a Tier Classified Site
Action Date: 6/24/2015
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 6/24/2015
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Legal Notice Published
Action Date: 6/26/2015
Response Action Outcome: Not reported

UST:

Facility:
Facility ID: 5207

IMPERIAL CLEANERS (Continued) **1000215057**

Owner Id:	8954
Owner:	IMPERIAL CLEANERS
Owner Address:	200 MAIN ST
Owner City,St,Zip:	HAVERHILL, MA 01830
Telephone:	(508) 374-9482
Description:	Other
Fire Dept. ID:	9128
Date of Inspection:	Not reported

Tank ID:	1
Serial Number:	Not reported
Tank Status:	**Removed**
Status Date:	01/28/1998
Date Installed:	05/06/1962
Capacity:	2000
Contents:	Fuel Oil
Tank Type:	Not reported
Tank Usage:	Consumptiv
Tank Material:	Steel
Tank Leak Detection:	Not reported
Pipe Material:	Copper
Pipe Container:	Not reported
Pipe Leak Detection:	Not reported
Above Ground:	No

Release:

Release Tracking Number/Current Status:	3-0032091 / RAONR
Primary ID:	3-0032241
Official City:	HAVERHILL
Notification:	04/16/2014
Category:	120 DY
Status Date:	06/24/2015
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Hazardous Material

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0032241 / TIERII
Primary ID:	3-0032241
Official City:	HAVERHILL
Notification:	06/16/2014
Category:	120 DY
Status Date:	06/24/2015
Phase:	PHASE II
Response Action Outcome:	-
Oil / Haz Material Type:	Hazardous Material

Click here to access the MA DEP site for this facility:

MA Financial Assurance 2:

Facility Id:	5207
Description:	Other

IMPERIAL CLEANERS (Continued) **1000215057**

Work Phone: (508) 374-9482

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155 East 1/2-1 0.538 mi. 2840 ft.

ROADWAY
GINTY BLVD AND MAIN ST
HAVERHILL, MA

SHWS RELEASE **S109146595 N/A**

Relative: Higher

Actual: 56 ft.

SHWS:

Release Tracking Number/Current Status:	3-0027612 / RAO
Release Town:	HAVERHILL
Notification Date:	04/03/2008
Category:	TWO HR
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	06/10/2008
Phase:	Not reported
Response Action Outcome:	A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil Or Haz Material:	Oil
Location Type:	ROADWAY
Source:	VEHICLE
Source:	100 GAL
Source:	SADDLTANK

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	DIESEL FUEL
Quantity:	100 gallons
Chemical:	DIESEL FUEL
Quantity:	80 gallons

Actions:

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	4/25/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	FLDISS
Action Date:	4/3/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	4/3/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	4/3/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

ROADWAY (Continued) **S109146595**

Action Type: RLFA
Action Status: FLDD1A
Action Date: 4/3/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 6/10/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 6/2/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Release Tracking Number/Current Status: 3-0027612 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 04/03/2008
Category: TWO HR
Status Date: 06/10/2008
Phase: Not reported
Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

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156 NE 1/2-1 0.548 mi. 2891 ft. | **NO LOCATION AID 24 FOURTH AVE HAVERHILL, MA 01830** | **SHWS RELEASE** | **S104516970 N/A**

Relative: Higher

Actual: 123 ft.

SHWS:
Release Tracking Number/Current Status: 3-0014500 / RAO
Release Town: HAVERHILL
Notification Date: 11/16/1996
Category: TWO HR
Associated ID: Not reported
Current Status: **Response Action Outcome**
Status Date: 11/21/1997
Phase: Not reported
Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil Or Haz Material: Oil
Location Type: RESIDNTIAL
Source: VARIOUS
Source: CONTAINERS

NO LOCATION AID (Continued) **S104516970**

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	GASOLINE
Quantity:	Not reported
Chemical:	PAINT THINNERS
Quantity:	Not reported

Actions:

Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	1/3/1997
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Immediate Response Action - DEP Lead
Action Status:	Oral Approval of Plan or Action
Action Date:	11/16/1996
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	FLDISS
Action Date:	11/16/1996
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	11/16/1996
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	RLFA
Action Status:	FOLFLD
Action Date:	11/16/1996
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	11/21/1997
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Response Action Outcome - RAO
Action Status:	Fee Received - FMCRA Use Only
Action Date:	11/25/1997
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	12/10/1996
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced

NO LOCATION AID (Continued) **S104516970**

to background or a threat of release has been eliminated.

Action Type: Immediate Response Action - DEP Lead
Action Status: Completion Statement Received
Action Date: 2/11/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 2/20/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 2/28/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 8/26/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Release Tracking Number/Current Status: 3-0014500 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 11/16/1996
Category: TWO HR
Status Date: 11/21/1997
Phase: Not reported
Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

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157 NNE 1/2-1 0.555 mi. 2933 ft.

NO LOCATION AID
16 GARDEN ST
HAVERHILL, MA

SHWS RELEASE LEAD **S104516968 N/A**

Relative: Higher

Actual: 82 ft.

SHWS:
Release Tracking Number/Current Status: 3-0014423 / RAO
Release Town: HAVERHILL
Notification Date: 10/25/1996
Category: TWO HR
Associated ID: Not reported
Current Status: Response Action Outcome
Status Date: 12/26/1996
Phase: Not reported

NO LOCATION AID (Continued) **S104516968**

Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil Or Haz Material: Not reported
Location Type: ROADWAY
Location Type: RESIDNTIAL
Source: VEHICLE
Source: PIPE

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: HYDRAULIC OIL
Quantity: 15 gallons
Chemical: HYDRAULIC OIL
Quantity: 19 gallons

Actions:
Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 10/25/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 10/25/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 10/25/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 11/8/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 12/26/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 12/26/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Release Tracking Number/Current Status: 3-0014423 / RAO

NO LOCATION AID (Continued) **S104516968**

Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	10/25/1996
Category:	TWO HR
Status Date:	12/26/1996
Phase:	Not reported
Response Action Outcome:	A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil / Haz Material Type:	Not reported

Click here to access the MA DEP site for this facility:

LEAD:

Community:	Haverhill
Unit:	Not reported
Inspector Name:	Raymond Descheneaux
Inspector License Number:	1758
Activity Type:	INSPECT
Activity Date:	03/21/1996
Start Work Date:	Not reported
Activity Descriptions:	Comprehensive Initial Inspection
Outcomes:	Hazards Found

158
South
1/2-1
0.557 mi.
2943 ft.

Relative:
Higher

Actual:
42 ft.

FORMER GASOLINE STATION
236 SOUTH ELM ST
HAVERHILL, MA 01835

SHWS **S101024172**
LUST **N/A**
SPILLS
RELEASE

SHWS:

Release Tracking Number/Current Status:	3-0028623 / TIERII
Release Town:	HAVERHILL
Notification Date:	07/17/2009
Category:	72 HR
Associated ID:	3-0028623
Current Status:	**Tier II, A site/release receiving a total NRS score of less than 350, unless the site meets any of the Tier 1 Inclusionary Criteria (see above). Permits are not required at Tier 2 sites/releases and response actions may be performed under the supervision of an LSP without prior DEP approval. All pre-1993 transition sites that have accepted waivers are categorically Tier 2 sites.**
Status Date:	07/27/2010
Phase:	PHASE IV
Response Action Outcome:	-
Oil Or Haz Material:	Oil
Location Type:	COMMERCIAL
Source:	UST
Source:	USTOTHER
Source:	PIPE

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	GASOLINE
Quantity:	1188 parts per million

FORMER GASOLINE STATION (Continued) **S101024172**

Chemical: GASOLINE
Quantity: 254 parts per million

Actions:

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 1/19/2010
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 1/20/2010
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 1/20/2014
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: RMRINT
Action Date: 1/20/2014
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 1/24/2011
Response Action Outcome: Not reported

Action Type: RNFE
Action Status: Revised Statement or Transmittal Received
Action Date: 10/16/2009
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 10/20/2009
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 10/22/2009
Response Action Outcome: Not reported

Action Type: RNFE
Action Status: Revised Statement or Transmittal Received
Action Date: 10/8/2009
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 10/8/2009
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 12/23/2010
Response Action Outcome: Not reported

FORMER GASOLINE STATION (Continued) **S101024172**

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 3/18/2015
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: RMRINT
Action Date: 3/18/2015
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via IRA Completion Statement
Action Date: 3/4/2013
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 3/4/2013
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 3/6/2013
Response Action Outcome: Not reported

Action Type: Phase 4
Action Status: Notice of Delay in Meeting RA Deadline Received
Action Date: 4/6/2015
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: ALSENT
Action Date: 5/7/2010
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 6/2/2010
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 6/3/2010
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Transfer
Action Date: 6/7/2012
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 7/12/2013
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: RMRINT

FORMER GASOLINE STATION (Continued) **S101024172**

Action Date:	7/12/2013
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	7/17/2009
Response Action Outcome:	Not reported
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	7/17/2009
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	7/2/2012
Response Action Outcome:	Not reported
Action Type:	Phase 1
Action Status:	Completion Statement Received
Action Date:	7/27/2010
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	7/27/2010
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	7/27/2010
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	TCEXT
Action Date:	7/27/2015
Response Action Outcome:	Not reported
Action Type:	Phase 3
Action Status:	Completion Statement Received
Action Date:	8/12/2013
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	8/12/2013
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Notice of Delay in Meeting RA Deadline Received
Action Date:	8/13/2012
Response Action Outcome:	Not reported
Action Type:	Phase 3
Action Status:	Notice of Delay in Meeting RA Deadline Received
Action Date:	8/13/2012
Response Action Outcome:	Not reported

FORMER GASOLINE STATION (Continued) **S101024172**

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	8/7/2009
Response Action Outcome:	Not reported

Action Type:	Phase 4
Action Status:	Written Plan Received
Action Date:	9/11/2015
Response Action Outcome:	Not reported

Action Type:	Release Abatement Measure
Action Status:	Completion Statement Received
Action Date:	9/11/2015
Response Action Outcome:	Not reported

Action Type:	RNFE
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	9/15/2009
Response Action Outcome:	Not reported

Release Tracking Number/Current Status:	3-0017754 / RAO
Release Town:	HAVERHILL
Notification Date:	12/17/1998
Category:	120 DY
Associated ID:	3-0017754
Current Status:	**Response Action Outcome**
Status Date:	08/29/2002
Phase:	PHASE III
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Oil

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	PETROLEUM
Quantity:	591 parts per million

Actions:

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	12/17/1998
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	12/17/1998
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Phase 1
Action Status:	Completion Statement Received
Action Date:	12/22/1999
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been

FORMER GASOLINE STATION (Continued) **S101024172**

reduced to background.

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 12/22/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 12/22/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 2/16/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 2/9/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 3/5/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 5/18/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 3
Action Status: Notice of Delay in Meeting RA Deadline Received
Action Date: 7/2/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 8/29/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release Tracking Number/Current Status: 3-0030683 / RAONR
Release Town: HAVERHILL
Notification Date: 03/02/2012
Category: 72 HR
Associated ID: 3-0028623
Current Status: **Response Action Outcome Not Required**

FORMER GASOLINE STATION (Continued) **S101024172**

Status Date:	03/04/2013
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Not reported
Location Type:	COMMERCIAL
Source:	UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	NAPL (FUEL OIL)
Quantity:	3.48 inches

Actions:

Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	1/28/2014
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	ALSENT
Action Date:	1/4/2013
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	3/2/2012
Response Action Outcome:	Not reported
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	3/2/2012
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	3/23/2012
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	3/4/2013
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	3/4/2013
Response Action Outcome:	Not reported
Action Type:	RAO Not Required
Action Status:	Linked to a Tier Classified Site
Action Date:	3/4/2013
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via IRA Completion Statement

FORMER GASOLINE STATION (Continued) **S101024172**

Action Date:	3/4/2013
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Written Plan Received
Action Date:	6/25/2012
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	6/25/2012
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Transfer
Action Date:	6/7/2012
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	7/27/2010
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	7/27/2010
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	TCEXT
Action Date:	7/27/2015
Response Action Outcome:	Not reported
Action Type:	RNFE
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	7/30/2012
Response Action Outcome:	Not reported
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	7/30/2012
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	8/13/2012
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	8/14/2012
Response Action Outcome:	Not reported

Release Tracking Number/Current Status:	3-0019233 / RAONR
Release Town:	HAVERHILL
Notification Date:	02/02/2000

FORMER GASOLINE STATION (Continued) **S101024172**

Category:	120 DY
Associated ID:	3-0017754
Current Status:	**Response Action Outcome Not Required**
Status Date:	02/09/2001
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Oil

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	C9 THRU C12 ALIPHATIC HYDROCARBONS
Quantity:	3140 milligrams per kilogram
Chemical:	C5 THRU C8 ALIPHATIC HYDROCARBONS
Quantity:	967 milligrams per kilogram
Chemical:	C9 THRU C10 AROMATIC HYDROCARBONS
Quantity:	428 milligrams per kilogram

Actions:

Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	12/22/1999
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	12/22/1999
Response Action Outcome:	Not reported
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	2/2/2000
Response Action Outcome:	Not reported
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	2/2/2000
Response Action Outcome:	Not reported
Action Type:	RAO Not Required
Action Status:	Linked to a Tier Classified Site
Action Date:	2/9/2001
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via Tier Classification Submittal
Action Date:	2/9/2001
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	5/17/2000
Response Action Outcome:	Not reported

FORMER GASOLINE STATION (Continued) **S101024172**

LUST:

Facility:

Release Tracking Number/Current Status:	3-0028623 / TIERII
Status Date:	07/27/2010
Source Type:	USTOTHER
Release Town:	HAVERHILL
Notification Date:	07/17/2009
Category:	72 HR
Associated ID:	3-0028623
Phase:	PHASE IV
Response Action Outcome:	-
Oil Or Haz Material:	Oil
Location Type:	COMMERCIAL
Source:	UST
Source:	USTOTHER
Source:	PIPE

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	GASOLINE
Quantity:	1188 parts per million
Chemical:	GASOLINE
Quantity:	254 parts per million

Actions:

Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	1/19/2010
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	1/20/2010
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	1/20/2014
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	RMRINT
Action Date:	1/20/2014
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	1/24/2011
Response Action Outcome:	Not reported
Action Type:	RNFE
Action Status:	Revised Statement or Transmittal Received

FORMER GASOLINE STATION (Continued) **S101024172**

Action Date:	10/16/2009
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Written Plan Received
Action Date:	10/20/2009
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	10/22/2009
Response Action Outcome:	Not reported
Action Type:	RNFE
Action Status:	Revised Statement or Transmittal Received
Action Date:	10/8/2009
Response Action Outcome:	Not reported
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	10/8/2009
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	12/23/2010
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	3/18/2015
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	RMRINT
Action Date:	3/18/2015
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via IRA Completion Statement
Action Date:	3/4/2013
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Written Plan Received
Action Date:	3/4/2013
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Level I - Technical Screen Audit
Action Date:	3/6/2013
Response Action Outcome:	Not reported
Action Type:	Phase 4
Action Status:	Notice of Delay in Meeting RA Deadline Received
Action Date:	4/6/2015
Response Action Outcome:	Not reported

FORMER GASOLINE STATION (Continued) **S101024172**

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: ALSENT
Action Date: 5/7/2010
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 6/2/2010
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 6/3/2010
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Transfer
Action Date: 6/7/2012
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 7/12/2013
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: RMRINT
Action Date: 7/12/2013
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 7/17/2009
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 7/17/2009
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 7/2/2012
Response Action Outcome: Not reported

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 7/27/2010
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 7/27/2010
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received

FORMER GASOLINE STATION (Continued) **S101024172**

Action Date: 7/27/2010
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: TCEXT
Action Date: 7/27/2015
Response Action Outcome: Not reported

Action Type: Phase 3
Action Status: Completion Statement Received
Action Date: 8/12/2013
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 8/12/2013
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Notice of Delay in Meeting RA Deadline Received
Action Date: 8/13/2012
Response Action Outcome: Not reported

Action Type: Phase 3
Action Status: Notice of Delay in Meeting RA Deadline Received
Action Date: 8/13/2012
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 8/7/2009
Response Action Outcome: Not reported

Action Type: Phase 4
Action Status: Written Plan Received
Action Date: 9/11/2015
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 9/11/2015
Response Action Outcome: Not reported

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 9/15/2009
Response Action Outcome: Not reported

Facility:
Release Tracking Number/Current Status: 3-0019866 / RAONR
Status Date: 02/09/2001
Source Type: UST
Release Town: HAVERHILL
Notification Date: 08/24/2000
Category: 72 HR
Associated ID: 3-0017754

FORMER GASOLINE STATION (Continued) **S101024172**

Phase: Not reported
Response Action Outcome: -
Oil Or Haz Material: Not reported

Location Type: COMMERCIAL
Source: UST

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: NAPL
Quantity: 5.28 inches
Chemical: NAPL
Quantity: 42 inches

Actions:
Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 10/17/2000
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 10/17/2000
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Imminent Hazard Evaluation Received
Action Date: 10/17/2000
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 12/20/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 12/22/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 12/22/1999
Response Action Outcome: Not reported

Action Type: RAO Not Required
Action Status: Linked to a Tier Classified Site
Action Date: 2/9/2001
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 2/9/2001
Response Action Outcome: Not reported

FORMER GASOLINE STATION (Continued) **S101024172**

Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	6/29/2001
Response Action Outcome:	Not reported

Action Type:	Immediate Response Action
Action Status:	Modified Revised or Updated Plan Received
Action Date:	6/29/2001
Response Action Outcome:	Not reported

Action Type:	Immediate Response Action
Action Status:	IRA Assessment Only
Action Date:	8/24/2000
Response Action Outcome:	Not reported

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	8/24/2000
Response Action Outcome:	Not reported

Action Type:	Immediate Response Action
Action Status:	Oral Approval of a Modified Plan
Action Date:	8/25/2000
Response Action Outcome:	Not reported

Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	8/25/2000
Response Action Outcome:	Not reported

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	9/18/2000
Response Action Outcome:	Not reported

Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	9/18/2000
Response Action Outcome:	Not reported

MA Spills:

Facility ID:	3-2705		Spill ID:	N89-1303
Staff Lead:	PENTA, E		Date Entered:	19890928
Last Entered:	19900118		First Response:	19890803
Spill Date:	19890803		Spill Time:	Not reported
Report Date:	19890803		Report Time:	02:15PM
Case Closed:	YES		Mat Type:	NEITHER
Virgin Waste:	VIRGIN		Contam Soil:	Not reported
Env Impact:	SOIL		Other Impact:	Not reported
Material:	OTHER MATERIAL	-->	Other Material:	CONTAMINATED SOIL
Qty Reported:	UNKNOWN		Qty Actual:	UNKNOWN
Qty Reported:	----------		Qty Actual:	----------
CAS No:	Not reported		PCB Lev (ppm):	NONE
Source:	----------		Other Source:	Not reported
Incident:	----------		Other Incdnt:	Not reported
Cleanup Type:	---		Contractor:	NOT USED

FORMER GASOLINE STATION (Continued) **S101024172**

Referral:	SA	LUST Elig:	NO
Report Prep:	Not reported	Category:	Not reported
Notifier:	RON SMITH		
Notif Tel:	Not reported		
Days/Close:	0		

Facility ID:	3-2705	Spill ID:	N89-1808
Staff Lead:	GORRASI, M	Date Entered:	19900125
Last Entered:	19940916	First Response:	19891026
Spill Date:	19891026	Spill Time:	Not reported
Report Date:	19891026	Report Time:	10:00AM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	VIRGIN	Contam Soil:	Not reported
Env Impact:	SOIL	Other Impact:	Not reported
Material:	GASOLINE	Other Material:	Not reported
Qty Reported:	UNKNOWN	Qty Actual:	UNKNOWN
Qty Reported:	GALLONS	Qty Actual:	GALLONS
CAS No:	Not reported	PCB Lev (ppm):	NONE
Source:	U.S.T.	Other Source:	Not reported
Incident:	TANK REMOVAL	Other Incdnt:	Not reported
Cleanup Type:	---	Contractor:	NOT USED
Referral:	SA	LUST Elig:	NO
Report Prep:	Not reported	Category:	Not reported
Notifier:	ROBIN GRANT		
Notif Tel:	Not reported		
Days/Close:	0		

Release:

Release Tracking Number/Current Status:	3-0017754 / RAO
Primary ID:	3-0017754
Official City:	HAVERHILL
Notification:	12/17/1998
Category:	120 DY
Status Date:	08/29/2002
Phase:	PHASE III
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0019233 / RAONR
Primary ID:	3-0017754
Official City:	HAVERHILL
Notification:	02/02/2000
Category:	120 DY
Status Date:	02/09/2001
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0019866 / RAONR
Primary ID:	3-0017754

FORMER GASOLINE STATION (Continued) **S101024172**

Official City:	HAVERHILL
Notification:	08/24/2000
Category:	72 HR
Status Date:	02/09/2001
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Not reported

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0028623 / TIERII
Primary ID:	3-0028623
Official City:	HAVERHILL
Notification:	07/17/2009
Category:	72 HR
Status Date:	07/27/2010
Phase:	PHASE IV
Response Action Outcome:	-
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0030683 / RAONR
Primary ID:	3-0028623
Official City:	HAVERHILL
Notification:	03/02/2012
Category:	72 HR
Status Date:	03/04/2013
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Not reported

Click here to access the MA DEP site for this facility:

159
ENE
1/2-1
0.576 mi.
3042 ft.

MOBIL SERVICE STATION
255 259 MAIN ST
HAVERHILL, MA 01830

SHWS **S105199853**
LUST **N/A**
RELEASE

Relative:
Higher

Actual:
129 ft.

SHWS:

Release Tracking Number/Current Status:	3-0004822 / RAONR
Release Town:	HAVERHILL
Notification Date:	10/01/1993
Category:	NONE
Associated ID:	3-0004630
Current Status:	**Response Action Outcome Not Required**
Status Date:	05/20/2004
Phase:	PHASE II
Response Action Outcome:	-
Oil Or Haz Material:	Oil
Location Type:	GASSTATION
Source:	UST
Source:	UNKNOWN

MOBIL SERVICE STATION (Continued) **S105199853**

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	WASTE OIL
Quantity:	Not reported
Chemical:	PCBS
Quantity:	Not reported

Actions:

Action Type:	Release Disposition
Action Status:	Valid Transition Site
Action Date:	10/1/1993
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	5/20/2004
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via Tier Classification Submittal
Action Date:	5/20/2004
Response Action Outcome:	Not reported
Action Type:	RAO Not Required
Action Status:	Linked to a Tier Classified Site
Action Date:	5/20/2004
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	6/3/2004
Response Action Outcome:	Not reported
Action Type:	TREGS
Action Status:	LSPFA
Action Date:	8/8/1997
Response Action Outcome:	Not reported
Action Type:	Phase 1
Action Status:	Completion Statement Received
Action Date:	8/8/1997
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	8/8/1997
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	8/8/1997
Response Action Outcome:	Not reported

MOBIL SERVICE STATION (Continued) **S105199853**

LUST:

Facility:

Release Tracking Number/Current Status:	3-0004822 / RAONR
Status Date:	05/20/2004
Source Type:	UST
Release Town:	HAVERHILL
Notification Date:	10/01/1993
Category:	NONE
Associated ID:	3-0004630
Phase:	PHASE II
Response Action Outcome:	-
Oil Or Haz Material:	Oil
Location Type:	GASSTATION
Source:	UST
Source:	UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	WASTE OIL
Quantity:	Not reported
Chemical:	PCBS
Quantity:	Not reported

Actions:

Action Type:	Release Disposition
Action Status:	Valid Transition Site
Action Date:	10/1/1993
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	5/20/2004
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via Tier Classification Submittal
Action Date:	5/20/2004
Response Action Outcome:	Not reported
Action Type:	RAO Not Required
Action Status:	Linked to a Tier Classified Site
Action Date:	5/20/2004
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	6/3/2004
Response Action Outcome:	Not reported
Action Type:	TREGS
Action Status:	LSPFA
Action Date:	8/8/1997

MOBIL SERVICE STATION (Continued) **S105199853**

Response Action Outcome: Not reported

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 8/8/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 8/8/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 8/8/1997
Response Action Outcome: Not reported

Release:
Release Tracking Number/Current Status: 3-0004822 / RAONR
Primary ID: 3-0004630
Official City: HAVERHILL
Notification: 10/01/1993
Category: NONE
Status Date: 05/20/2004
Phase: PHASE II
Response Action Outcome: -
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

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160 ENE 1/2-1 0.588 mi. 3103 ft. | **PROPERTY 286 MAIN ST HAVERHILL, MA 01830** | **SHWS RELEASE LEAD** | **S100361392 N/A**

Relative: Higher

Actual: 132 ft.

SHWS:
Release Tracking Number/Current Status: 3-0002206 / DEPNFA
Release Town: HAVERHILL
Notification Date: 10/15/1989
Category: NONE
Associated ID: Not reported
Current Status: No Further Action (DEP Determined)
Status Date: 05/02/1996
Phase: Not reported
Response Action Outcome: -
Oil Or Haz Material: Oil
Location Type: COMMERCIAL
Location Type: RESIDNTIAL

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: PETROLEUM

PROPERTY (Continued) **S100361392**

Quantity: Not reported

Actions:

Action Type:	Release Disposition
Action Status:	Valid Transition Site
Action Date:	10/15/1989
Response Action Outcome:	Not reported
Action Type:	TREGS
Action Status:	DEPNFA
Action Date:	5/2/1996
Response Action Outcome:	Not reported

Release:

Release Tracking Number/Current Status:	3-0002206 / DEPNFA
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	10/15/1989
Category:	NONE
Status Date:	05/02/1996
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

LEAD:

Community:	Haverhill
Unit:	4
Inspector Name:	Richard Holmes
Inspector License Number:	1837
Activity Type:	INSPECT
Activity Date:	01/30/1999
Start Work Date:	02/26/1999
Activity Descriptions:	Comprehensive Initial Inspection
Outcomes:	Hazards Found
Community:	Haverhill
Unit:	4
Inspector Name:	Richard Holmes
Inspector License Number:	1837
Activity Type:	COMPLIANCE
Activity Date:	03/04/1999
Start Work Date:	02/26/1999
Activity Descriptions:	Letter of Full Deleading Comp
Outcomes:	Issued
Community:	Haverhill
Unit:	5
Inspector Name:	Richard Holmes
Inspector License Number:	1837
Activity Type:	INSPECT
Activity Date:	02/22/1995
Start Work Date:	03/04/1995
Activity Descriptions:	Comprehensive Initial Inspection

PROPERTY (Continued) **S100361392**

Outcomes:	Hazards Found
Community:	Haverhill
Unit:	6
Inspector Name:	Richard Holmes
Inspector License Number:	1837
Activity Type:	INSPECT
Activity Date:	09/03/1995
Start Work Date:	Not reported
Activity Descriptions:	Comprehensive Initial Inspection
Outcomes:	No Hazards Found
Community:	Haverhill
Unit:	6
Inspector Name:	Richard Holmes
Inspector License Number:	1837
Activity Type:	INSPECT
Activity Date:	01/30/1999
Start Work Date:	Not reported
Activity Descriptions:	PCAD
Outcomes:	No Hazards Found

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161 South 1/2-1 0.590 mi. 3113 ft. **BRADFORD STATION RELEASE - TRACK 1** **SHWS RELEASE** **S108347861 N/A**
10 RAILROAD AVE
BRADFORD, MA 01835

Relative: Higher

Actual: 38 ft.

SHWS:

Release Tracking Number/Current Status:	3-0026390 / RAO
Release Town:	HAVERHILL
Notification Date:	11/17/2006
Category:	TWO HR
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	03/16/2007
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Oil
Location Type:	OPENSPACE
Location Type:	RAILROAD
Source:	PIPE
Source:	MOTIVE
Source:	LOCO
Source:	ENGINE

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	MOTOR OIL FROM LOCOMOTIVE ENGINE
Quantity:	40 gallons
Chemical:	MOTOR OIL
Quantity:	40 gallons

Actions:

Action Type:	Immediate Response Action

BRADFORD STATION RELEASE - TRACK 1 (Continued) **S108347861**

Action Status: Written Plan Received
Action Date: 1/16/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 1/16/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 1/8/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 11/17/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 11/17/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of a Modified Plan
Action Date: 11/17/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 12/19/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 3/16/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Release Tracking Number/Current Status: 3-0026390 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 11/17/2006
Category: TWO HR
Status Date: 03/16/2007
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not

BRADFORD STATION RELEASE - TRACK 1 (Continued) **S108347861**

been reduced to background.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

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162 ESE 1/2-1 0.592 mi. 3125 ft. **MASSACHUSETTS ELECTRIC COMPANY** **SHWS** **S108348071**
185 WATER ST **RELEASE** **N/A**
HAVERHILL, MA 01830 **HW GEN**

Relative: Higher

Actual: 27 ft.

SHWS:
Release Tracking Number/Current Status: 3-0026351 / RAO
Release Town: HAVERHILL
Notification Date: 10/31/2006
Category: TWO HR
Associated ID: Not reported
Current Status: **Response Action Outcome**
Status Date: 12/28/2006
Phase: Not reported
Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil Or Haz Material: Not reported
Location Type: COMMERCIAL
Source: HOSE

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: HYDRAULIC OIL
Quantity: 12 gallons
Chemical: HYDRAULIC OIL
Quantity: 20 gallons

Actions:
Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 10/31/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 10/31/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 11/28/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 12/28/2006

MASSACHUSETTS ELECTRIC COMPANY (Continued) **S108348071**

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 12/29/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 12/29/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Release Tracking Number/Current Status: 3-0026351 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 10/31/2006
Category: TWO HR
Status Date: 12/28/2006
Phase: Not reported
Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil / Haz Material Type: Not reported

Click here to access the MA DEP site for this facility:

HW GEN:
EPA Id: MV9787251041
RCRA Generator Status: VSQG
State Generator Status: SQG-MA

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163 ENE 1/2-1 0.605 mi. 3197 ft.

PROPERTY
310 MAIN ST
HAVERHILL, MA 01830

SHWS RELEASE HW GEN **S100361391 N/A**

Relative: Higher

Actual: 133 ft.

SHWS:
Release Tracking Number/Current Status: 3-0002145 / WCSPRM
Release Town: HAVERHILL
Notification Date: 04/15/1989
Category: NONE
Associated ID: Not reported
Current Status: **Waiver Completion Statement Permanent**
Status Date: 12/28/1990
Phase: Not reported
Response Action Outcome: -
Oil Or Haz Material: Not reported

Click here to access the MA DEP site for this facility:

PROPERTY (Continued) **S100361391**

Chemicals:
Chemical: UNKNOWN
Quantity: Not reported

Actions:
Action Type: TREGS
Action Status: WCSPRM
Action Date: 12/28/1990
Response Action Outcome: Not reported

Action Type: TREGS
Action Status: WAVREC
Action Date: 3/20/1989
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Valid Transition Site
Action Date: 4/15/1989
Response Action Outcome: Not reported

Action Type: TREGS
Action Status: WAVSIG
Action Date: 6/15/1989
Response Action Outcome: Not reported

Action Type: TREGS
Action Status: WAVACC
Action Date: 6/23/1989
Response Action Outcome: Not reported

Release:
Release Tracking Number/Current Status: 3-0002145 / WCSPRM
Primary ID: Not reported
Official City: HAVERHILL
Notification: 04/15/1989
Category: NONE
Status Date: 12/28/1990
Phase: Not reported
Response Action Outcome: -
Oil / Haz Material Type: Not reported

Click here to access the MA DEP site for this facility:

HW GEN:
EPA Id: MAC300096963
RCRA Generator Status: SQG
State Generator Status: SQG-MA

164 South 1/2-1 0.626 mi. 3306 ft. | **MERRIMACK IND FINISHERS**
33 RAILROAD AVE
HAVERHILL, MA 01830 | **SHWS SPILLS RELEASE** | **S101017690 N/A**

Relative: Higher

Actual: 32 ft.

SHWS:

Release Tracking Number/Current Status:	3-0001312 / DEPNDS
Release Town:	HAVERHILL
Notification Date:	01/15/1989
Category:	NONE
Associated ID:	Not reported
Current Status:	**Not a Disposal Site (DEP)**
Status Date:	05/17/1996
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Not reported

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	UNKNOWN
Quantity:	Not reported

Actions:

Action Type:	Release Disposition
Action Status:	Valid Transition Site
Action Date:	1/15/1989
Response Action Outcome:	Not reported

Action Type:	TREGS
Action Status:	DEPNDS
Action Date:	5/17/1996
Response Action Outcome:	Not reported

MA Spills:

Facility ID:	3-1203	Spill ID:	N87-1514
Staff Lead:	PENTA, E	Date Entered:	19880406
Last Entered:	19940119	First Response:	19871026
Spill Date:	Not reported	Spill Time:	Not reported
Report Date:	19871026	Report Time:	04:40PM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	VIRGIN	Contam Soil:	Not reported
Env Impact:	SOIL	Other Impact:	Not reported
Material:	MISCELLANEOUS OIL	Other Material:	Not reported
Qty Reported:	NONE	Qty Actual:	NONE
Qty Reported:	----------	Qty Actual:	----------
CAS No:	Not reported	PCB Lev (ppm):	----------
Source:	U.S.T.	Other Source:	Not reported
Incident:	TANK REMOVAL	Other Incdnt:	Not reported
Cleanup Type:	Not reported	Contractor:	NOT USED
Referral:	SA	LUST Elig:	---
Report Prep:	Not reported	Category:	Not reported
Notifier:	Not reported		
Notif Tel:	Not reported		
Days/Close:	0		

MERRIMACK IND FINISHERS (Continued) **S101017690**

Release:

Release Tracking Number/Current Status:	3-0001312 / DEPNDS
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	01/15/1989
Category:	NONE
Status Date:	05/17/1996
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Not reported

Click here to access the MA DEP site for this facility:

AB165
ESE
1/2-1
0.631 mi.
3331 ft.

NATIONAL GRID-WATER STREET 31
165 WATER STREET
HAVERHILL, MA 01830

SHWS **S112292738**
RELEASE **N/A**
TIER 2

Site 1 of 2 in cluster AB

Relative:
Higher

Actual:
27 ft.

SHWS:

Release Tracking Number/Current Status:	3-0032426 / TIERII
Release Town:	HAVERHILL
Notification Date:	09/02/2014
Category:	120 DY
Associated ID:	Not reported
Current Status:	**Tier II, A site/release receiving a total NRS score of less than 350, unless the site meets any of the Tier 1 Inclusionary Criteria (see above). Permits are not required at Tier 2 sites/releases and response actions may be performed under the supervision of an LSP without prior DEP approval. All pre-1993 transition sites that have accepted waivers are categorically Tier 2 sites.**
Status Date:	09/02/2015
Phase:	PHASE II
Response Action Outcome:	-
Oil Or Haz Material:	Oil and Hazardous Material
Source:	UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	ACENAPHTHYLENE
Quantity:	1.92 milligrams per kilogram
Chemical:	BENZO[A]ANTHRACENE
Quantity:	9.21 milligrams per kilogram
Chemical:	2-METHYLNAPHTHALENE
Quantity:	1.92 milligrams per kilogram
Chemical:	INDENO(1,2,3-CD)PYRENE
Quantity:	8.49 milligrams per kilogram
Chemical:	BENZO[A]PYRENE
Quantity:	16.8 milligrams per kilogram
Chemical:	BENZO[B]FLUORANTHENE
Quantity:	13.1 milligrams per kilogram
Chemical:	DIBENZO[A,H]ANTHRACENE
Quantity:	2.06 milligrams per kilogram
Chemical:	LEAD

NATIONAL GRID-WATER STREET 31 (Continued) **S112292738**

Quantity: 1140 milligrams per kilogram
Chemical: TPH
Quantity: 4360 milligrams per kilogram
Chemical: CHROMIUM
Quantity: 155 milligrams per kilogram
Chemical: PHENANTHRENE
Quantity: 16 milligrams per kilogram

Actions:

Action Type: Tier Classification
Action Status: Legal Notice Published
Action Date: 10/1/2015
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: ALSENT
Action Date: 7/10/2015
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 9/2/2014
Response Action Outcome: Not reported

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 9/2/2014
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 9/2/2014
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 9/2/2015
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 9/2/2015
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 9/2/2015
Response Action Outcome: Not reported

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 9/2/2015
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 9/24/2014
Response Action Outcome: Not reported

NATIONAL GRID-WATER STREET 31 (Continued) **S112292738**

Release:

Release Tracking Number/Current Status:	3-0032426 / TIERII
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	09/02/2014
Category:	120 DY
Status Date:	09/02/2015
Phase:	PHASE II
Response Action Outcome:	-
Oil / Haz Material Type:	Oil and Hazardous Material

Click here to access the MA DEP site for this facility:

TIER 2:

Report Year:	2014
Facility Id:	FATR20147Q987W0BADXB
Facility Dept:	Not reported
Latitude:	42.77472
Longitude:	-71.07173
Mailing Address:	Not reported
Mailing City/State/Zip:	Not reported
Mailing Country:	Not reported
Notes:	Not reported
All Chemicals Same As Last Yr:	T
Date Signed:	2/20/2015
Dike Or Other Safeguard:	Not reported
Failed Validation:	Not reported
Date Modified:	04/03/2015
Fees Total:	Not reported
Num Of Employees:	0
Site Coord Abbreviated?:	Not reported
Site Map:	Not reported
State Label Code:	MA2014
Submitted By:	Peter Harley, Environmental Manager
Validation Report:	Not reported
Fire District:	Not reported
Latlong Location Description:	Not reported
Latlong Method:	Not reported

Record Key:	FDTR20147Q987W0BBDXS
Id:	006952626
Type:	Dun & Bradstreet
Description:	Not reported
Last Modified:	02/08/2011

Record Key:	FDTR20147Q987W0BCDY8
Id:	221122
Type:	NAICS
Description:	Electric Power Distribution
Last Modified:	02/08/2011

Record Key:	FDTR20147Q987W0BDDY8
Id:	4911
Type:	SIC
Description:	ELECTRICAL SERVICES

NATIONAL GRID-WATER STREET 31 (Continued) **S112292738**

Last Modified: 02/08/2011

Contact:
Report Year: 2014
Contact Record Id: CTTR20146X8GV200ZHFA
Title: Not reported
Contact Name: Massachusetts Electric Company
Contact Email: www.nationalgrid.com
Contact Mail Address: 40 Sylvan Road
Contact Mail City: Waltham
Contact Mail State: MA
Contact Mail Zip: 02452
Contact Mail Country: USA
Contact1 Type: Owner / Operator
Contact2 Type: Not reported
Contact3 Type: Not reported
Contact4 Type: Not reported
Modification Date: 2/24/2015

Contact:
Report Year: 2014
Contact Record Id: CTTR201471KXSJ05T426
Title: Manager
Contact Name: Katinas
Contact Email: stephen.katinas@nationalgrid.com
Contact Mail Address: 40 Sylvan Road
Contact Mail City: Waltham
Contact Mail State: MA
Contact Mail Zip: 02451
Contact Mail Country: USA
Contact1 Type: Emergency Contact
Contact2 Type: Not reported
Contact3 Type: Not reported
Contact4 Type: Not reported
Modification Date: 2/24/2015

Contact:
Report Year: 2014
Contact Record Id: CTTR20146BDNLB06M245
Title: Lead Env Eng
Contact Name: Auxford-Paiva
Contact Email: beverly.auxford-paiva@nationalgrid.com
Contact Mail Address: 170 Medford Street
Contact Mail City: Malden
Contact Mail State: MA
Contact Mail Zip: 02148
Contact Mail Country: USA
Contact1 Type: Emergency Contact
Contact2 Type: Tier II Information Contact
Contact3 Type: Not reported
Contact4 Type: Not reported
Modification Date: 2/24/2015

NATIONAL GRID-WATER STREET 31 (Continued) **S112292738**

Chemicals:

Acute:	Not reported
Ave Amount:	44469
Ave Amount Code:	07
Chem Inv Record Id:	CVTR20147Q987W0BHDZM
Chem Same As Last Yr:	T
Chronic:	T
CICAS:	64742-53-6
CI EHS Chemical:	Not reported
CI Last Modified:	2/24/2015
Days On Site:	365
Entered Chemical Name:	Mineral Oil Dielectric Fluid
Fire:	Not reported
Gas:	Not reported
Liquid:	T
Max Amount:	44469
Max Amount Code:	07
Max Amt Container:	Not reported
Mixture:	T
Pressure:	Not reported
Pure:	Not reported
Reactive:	Not reported
Solid:	Not reported
State01 Checkbox:	Not reported
State01 Number:	0
State01 Text:	NA
State02 Checkbox:	Not reported
State02 Number:	0
State02 Text:	NA
State03 Checkbox:	Not reported
State03 Number:	0
State03 Text:	Not reported
State04 Checkbox:	Not reported
State04 Number:	0
State04 Text:	NA
State05 Checkbox:	Not reported
State05 Text:	Not reported
State06 Checkbox:	Not reported
State06 Text:	Not reported
State07 Checkbox:	T
State07 Text:	no transport route needed, oil in transformers on-site
State1 Contact Field:	NA
State Label Code:	MA2014
Trade Secret:	Not reported

Location:

Record Key:	CLTR20147Q987W0BJE02
Chem Inv Record Id:	CVTR20147Q987W0BHDZM
Type Code:	Other
Pressure Code:	Ambient pressure
Temperature Code:	Ambient temperature
Location:	Transformers
Amount:	44469
Amount Unit:	pounds
Last Modified:	2/24/2015

NATIONAL GRID-WATER STREET 31 (Continued) **S112292738**

Click this hyperlink while viewing on your computer to access
3 additional MA TIER2: record(s) in the EDR Site Report.

Click this hyperlink while viewing on your computer to access
3 additional MA TIER2: record(s) in the EDR Site Report.

Click this hyperlink while viewing on your computer to access
3 additional MA TIER2: record(s) in the EDR Site Report.

Click this hyperlink while viewing on your computer to access
3 additional MA TIER2: record(s) in the EDR Site Report.

AB166 **NO LOCATION AID** **SHWS** **S103812147**
ESE **155 WATER ST** **RELEASE** **N/A**
1/2-1 **HAVERHILL, MA**
0.651 mi.
3436 ft. **Site 2 of 2 in cluster AB**

Relative:
Higher

Actual:
26 ft.

SHWS:

Release Tracking Number/Current Status:	3-0018078 / RAO
Release Town:	HAVERHILL
Notification Date:	03/10/1999
Category:	120 DY
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	03/29/1999
Phase:	Not reported
Response Action Outcome:	A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil Or Haz Material:	Oil and Hazardous Material

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	BERYLLIUM
Quantity:	1.18 parts per million
Chemical:	C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity:	1300 parts per million

Actions:

Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	3/10/1999
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	3/10/1999
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Response Action Outcome - RAO

NO LOCATION AID (Continued) **S103812147**

Action Status: RAO Statement Received
Action Date: 3/29/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Release Tracking Number/Current Status: 3-0018078 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 03/10/1999
Category: 120 DY
Status Date: 03/29/1999
Phase: Not reported
Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil / Haz Material Type: Oil and Hazardous Material

Click here to access the MA DEP site for this facility:

167
ENE
1/2-1
0.652 mi.
3441 ft.

Relative:
Higher

Actual:
137 ft.

NO LOCATION AID **SHWS** **S104941835**
7 KENOZA AVE **RELEASE** **N/A**
HAVERHILL, MA 01830

SHWS:
Release Tracking Number/Current Status: 3-0020182 / RAO
Release Town: HAVERHILL
Notification Date: 12/04/2000
Category: TWO HR
Associated ID: Not reported
Current Status: **Response Action Outcome**
Status Date: 12/08/2001
Phase: Not reported
Response Action Outcome: B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.
Oil Or Haz Material: Not reported
Location Type: COMMERCIAL
Source: UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: GASOLINE VAPORS
Quantity: 100 parts per million
Chemical: GASOLINE VAPORS
Quantity: 108 parts per million

Actions:
Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 1/18/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

NO LOCATION AID (Continued) **S104941835**

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 1/18/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 11/30/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome - RAO
Action Status: Fee Received - FMCRA Use Only
Action Date: 12/12/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 12/13/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 12/26/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 12/4/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 12/4/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 12/8/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response Action
Action Status: Modified Revised or Updated Plan Received
Action Date: 2/20/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 3/20/2001

NO LOCATION AID (Continued) **S104941835**

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 6/28/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Release:
Release Tracking Number/Current Status: 3-0020182 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 12/04/2000
Category: TWO HR
Status Date: 12/08/2001
Phase: Not reported
Response Action Outcome: B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.
Oil / Haz Material Type: Not reported

Click here to access the MA DEP site for this facility:

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168 NNW 1/2-1 0.661 mi. 3492 ft. | **FOUNDATION MOUNTED TRANSFORMER PAD #5 KATHY DR HAVERHILL, MA 01830** | **SHWS RELEASE** | **S106344198 N/A**

Relative: Higher

Actual: 63 ft.

SHWS:
Release Tracking Number/Current Status: 3-0023638 / RAO
Release Town: HAVERHILL
Notification Date: 02/20/2004
Category: 120 DY
Associated ID: Not reported
Current Status: **Response Action Outcome**
Status Date: 06/23/2011
Phase: PHASE IV
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material: Not reported

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: MINERAL OIL DIELECTRIC FLUID
Quantity: 31 gallons

Actions:
Action Type: Phase 4
Action Status: Written Plan Received
Action Date: 10/26/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

FOUNDATION MOUNTED TRANSFORMER (Continued) **S106344198**

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 10/26/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 10/26/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 10/27/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 10/27/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 10/27/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 10/27/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 3
Action Status: Completion Statement Received
Action Date: 10/27/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 10/27/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RMRINI
Action Date: 10/28/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 10/28/2009

FOUNDATION MOUNTED TRANSFORMER (Continued) **S106344198**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Status: Legal Notice Published
Action Date: 11/3/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 12/19/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 2/20/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 2/20/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 3/15/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 4/27/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Submittal Retracted
Action Date: 5/11/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 5/6/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 5/6/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

FOUNDATION MOUNTED TRANSFORMER (Continued) **S106344198**

Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	6/23/2011
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	8/30/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	9/22/2010
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	9/23/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Release Tracking Number/Current Status:	3-0023638 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	02/20/2004
Category:	120 DY
Status Date:	06/23/2011
Phase:	PHASE IV
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type:	Not reported

Click here to access the MA DEP site for this facility:

AC169 **NO LOCATION AID** **SHWS** **S104562436**
ESE **15 SOUTH MAIN ST** **LUST** **N/A**
1/2-1 **HAVERHILL, MA 01830** **INST CONTROL**
0.669 mi. **RELEASE**
3534 ft. **Site 1 of 2 in cluster AC**

Relative:
Lower

Actual:
17 ft.

SHWS:

Release Tracking Number/Current Status:	3-0019580 / RAO
Release Town:	HAVERHILL
Notification Date:	05/30/2000
Category:	120 DY
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	08/04/2000
Phase:	Not reported
Response Action Outcome:	B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more

NO LOCATION AID (Continued) **S104562436**

AULs that have been implemented.
Oil Or Haz Material: Oil

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity: 1400 parts per billion
Chemical: C9 THRU C10 AROMATIC HYDROCARBONS
Quantity: 840 parts per million

Actions:
Action Type: An activity type that is related to an Audit
Action Status: NOA
Action Date: 10/23/2006
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Level III - Comprehensive Audit
Action Date: 10/23/2006
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation
Action Status: Level III - Comprehensive Audit
Action Date: 10/23/2006
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Level III - Comprehensive Audit
Action Date: 12/29/2006
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: An activity type that is related to an Audit
Action Status: Notice of Non-compliance related to an Audit
Action Date: 12/29/2006
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation
Action Status: Level III - Comprehensive Audit
Action Date: 12/29/2006
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: An activity type that is related to an Audit
Action Status: NON-A

NO LOCATION AID (Continued) **S104562436**

Action Date: 5/10/2007
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 5/30/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 5/30/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation
Action Status: Legal Notice Published
Action Date: 8/30/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation
Action Status: Transmittal, Notice, or Notification Received
Action Date: 8/4/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 8/4/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 8/4/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

LUST:

Facility:
Release Tracking Number/Current Status: 3-0019242 / RAO
Status Date: 08/04/2000
Source Type: UST
Release Town: HAVERHILL
Notification Date: 02/04/2000
Category: 72 HR

NO LOCATION AID (Continued) **S104562436**

Associated ID: Not reported
Phase: Not reported
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Oil Or Haz Material: Oil

Location Type: COMMERCIAL
Source: UST

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: GASOLINE
Quantity: 240 parts per million

Actions:
Action Type: Response Action Outcome - RAO
Action Status: Level III - Comprehensive Audit
Action Date: 10/23/2006
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: An activity type that is related to an Audit
Action Status: NOA
Action Date: 10/23/2006
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation
Action Status: Level III - Comprehensive Audit
Action Date: 10/23/2006
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: RLFA
Action Status: FLDD1A
Action Date: 11/8/2006
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: An activity type that is related to an Audit
Action Status: Notice of Non-compliance related to an Audit
Action Date: 12/29/2006
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Level III - Comprehensive Audit
Action Date: 12/29/2006

NO LOCATION AID (Continued) **S104562436**

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation
Action Status: Level III - Comprehensive Audit
Action Date: 12/29/2006
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 2/4/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Immediate Response Action
Action Status: IRA Assessment Only
Action Date: 2/4/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 3/23/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Compliance and Enforcement Action
Action Status: Interim Deadline Letter Issued
Action Date: 3/3/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 3/3/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Release Disposition
Action Status: Release Notification Retraction
Action Date: 3/3/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 4/4/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No

NO LOCATION AID (Continued) **S104562436**

Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 4/4/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: An activity type that is related to an Audit
Action Status: NON-A
Action Date: 5/10/2007
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: An activity type that is related to an Audit
Action Status: Audit Follow-up Completion Statement Received
Action Date: 7/20/2007
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Fee Received - FMCRA Use Only
Action Date: 8/11/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation
Action Status: Legal Notice Published
Action Date: 8/30/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation
Action Status: Transmittal, Notice, or Notification Received
Action Date: 8/4/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 8/4/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

INST CONTROL:
Release Tracking Number: 3-0019242
Action Type: AUL
Action Stat: ACTAUD

NO LOCATION AID (Continued) **S104562436**

Action Date: 10/23/2006
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number: 3-0019242
Action Type: AUL
Action Stat: ACTAUD
Action Date: 12/29/2006
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number: 3-0019242
Action Type: AUL
Action Stat: LEGNOT
Action Date: 08/30/2000
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number: 3-0019242
Action Type: AUL
Action Stat: RECPT
Action Date: 08/04/2000
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number: 3-0019580
Action Type: AUL
Action Stat: ACTAUD
Action Date: 10/23/2006
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number: 3-0019580
Action Type: AUL
Action Stat: ACTAUD
Action Date: 12/29/2006
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number: 3-0019580
Action Type: AUL
Action Stat: LEGNOT
Action Date: 08/30/2000
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number: 3-0019580
Action Type: AUL
Action Stat: RECPT
Action Date: 08/04/2000

NO LOCATION AID (Continued) **S104562436**

Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release:

Release Tracking Number/Current Status:	3-0019242 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	02/04/2000
Category:	72 HR
Status Date:	08/04/2000
Phase:	Not reported
Response Action Outcome:	B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0019580 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	05/30/2000
Category:	120 DY
Status Date:	08/04/2000
Phase:	Not reported
Response Action Outcome:	B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

AC170
ESE
1/2-1
0.679 mi.
3584 ft.

NO LOCATION AID **SHWS** **S104000591**
20 SOUTH MAIN ST **RELEASE** **N/A**
HAVERHILL, MA 01830

Site 2 of 2 in cluster AC

Relative:
Lower

Actual:
17 ft.

SHWS:

Release Tracking Number/Current Status:	3-0018538 / RAO
Release Town:	HAVERHILL
Notification Date:	07/15/1999
Category:	120 DY
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	05/18/2012
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Hazardous Material

Click here to access the MA DEP site for this facility:

NO LOCATION AID (Continued) **S104000591**

Chemicals:

Chemical:	VINYL CHLORIDE
Quantity:	48.6 parts per billion
Chemical:	PCE
Quantity:	3735 parts per billion
Chemical:	TCE
Quantity:	1825 parts per billion

Actions:

Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	5/18/2012
Response Action Outcome:	Not reported
Action Type:	Downgradient Property Status
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	7/15/1999
Response Action Outcome:	Not reported
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	7/15/1999
Response Action Outcome:	Not reported
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	7/15/1999
Response Action Outcome:	Not reported

Release:

Release Tracking Number/Current Status:	3-0018538 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	07/15/1999
Category:	120 DY
Status Date:	05/18/2012
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Hazardous Material

Click here to access the MA DEP site for this facility:

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171 ESE 1/2-1 0.684 mi. 3612 ft. | **PARKING LOT BEHIND BUILDING 142 WATER ST HAVERHILL, MA** | **SHWS RELEASE** | **S102555452 N/A**

Relative: Lower

Actual: 23 ft.

SHWS:

Release Tracking Number/Current Status:	3-0014691 / RAO
Release Town:	HAVERHILL
Notification Date:	01/03/1997
Category:	TWO HR
Associated ID:	Not reported
Current Status:	**Response Action Outcome**

PARKING LOT BEHIND BUILDING (Continued) **S102555452**

Status Date: 02/14/1997
Phase: Not reported
Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil Or Haz Material: Oil
Location Type: COMMERCIAL
Source: VEHICLE

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: HYDRAULIC FLUID
Quantity: 15 gallons
Chemical: HYDRAULIC OIL
Quantity: 25 gallons

Actions:
Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 1/3/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 1/3/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 1/3/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 2/14/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 2/14/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 2/4/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Release Tracking Number/Current Status: 3-0014691 / RAO

PARKING LOT BEHIND BUILDING (Continued) **S102555452**

Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	01/03/1997
Category:	TWO HR
Status Date:	02/14/1997
Phase:	Not reported
Response Action Outcome:	A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

AD172
SSW
1/2-1
0.688 mi.
3633 ft.

PIERCE CONSTRUCTION AND TRUCKING **SHWS** **S109146522**
264 RIVER ST **RELEASE** **N/A**
HAVERHILL, MA

Site 1 of 2 in cluster AD

Relative:
Lower

Actual:
18 ft.

SHWS:

Release Tracking Number/Current Status:	3-0027641 / RAO
Release Town:	HAVERHILL
Notification Date:	04/22/2008
Category:	TWO HR
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	06/30/2008
Phase:	Not reported
Response Action Outcome:	A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil Or Haz Material:	Not reported
Location Type:	WATERBODY
Location Type:	COMMERCIAL
Source:	DUMP
Source:	TRUCK

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	HYDRAULIC OIL
Quantity:	10 gallons
Chemical:	HYDRAULIC OIL
Quantity:	5 gallons

Actions:

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	FLDISS
Action Date:	4/22/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	4/22/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

PIERCE CONSTRUCTION AND TRUCKING (Continued) **S109146522**

Action Type:	RLFA
Action Status:	FLDD1A
Action Date:	4/22/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	4/22/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	6/12/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	6/20/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	6/30/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:

Release Tracking Number/Current Status:	3-0027641 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	04/22/2008
Category:	TWO HR
Status Date:	06/30/2008
Phase:	Not reported
Response Action Outcome:	A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil / Haz Material Type:	Not reported

Click here to access the MA DEP site for this facility:

AD173 **ALLEN SHOE COMPANY** **SHWS** **S100828878**
SSW **266 RIVER ST** **RELEASE** **N/A**
1/2-1 **HAVERHILL, MA 01830**
0.691 mi.
3651 ft. **Site 2 of 2 in cluster AD**

Relative:
Lower

Actual:
17 ft.

SHWS:

Release Tracking Number/Current Status:	3-0003768 / RAO
Release Town:	HAVERHILL
Notification Date:	07/15/1993
Category:	NONE

ALLEN SHOE COMPANY (Continued) **S100828878**

Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	08/07/1997
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Oil
Location Type:	INDUSTRIAL
Location Type:	SHOES
Location Type:	MANUFACT
Source:	UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	PETROLEUM
Quantity:	Not reported
Chemical:	VOCS
Quantity:	Not reported

Actions:

Action Type:	Release Disposition
Action Status:	Valid Transition Site
Action Date:	7/15/1993
Response Action Outcome:	Not reported
Action Type:	TREGS
Action Status:	RAOEQ
Action Date:	8/7/1997
Response Action Outcome:	Not reported

Release:

Release Tracking Number/Current Status:	3-0003768 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	07/15/1993
Category:	NONE
Status Date:	08/07/1997
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

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174 ENE 1/2-1 0.703 mi. 3710 ft.

KING DAVIS PROPERTIES
40 KENOZA AVE
HAVERHILL, MA 01830

SHWS RELEASE **S107517167 N/A**

Relative: Higher

Actual: 141 ft.

SHWS:

Release Tracking Number/Current Status:	3-0025479 / DPS
Release Town:	HAVERHILL
Notification Date:	12/08/2005
Category:	120 DY

KING DAVIS PROPERTIES (Continued) **S107517167**

Associated ID:	Not reported
Current Status:	**Downgradient Property Status**
Status Date:	12/08/2005
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Oil and Hazardous Material

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	ETHYLBENZENE
Quantity:	150 micrograms per liter
Chemical:	C5 THRU C8 ALIPHATIC HYDROCARBONS
Quantity:	1 milligrams per liter

Actions:

Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	12/8/2005
Response Action Outcome:	Not reported
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	12/8/2005
Response Action Outcome:	Not reported
Action Type:	Downgradient Property Status
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	12/8/2005
Response Action Outcome:	Not reported
Action Type:	Downgradient Property Status
Action Status:	Fee Received - FMCRA Use Only
Action Date:	12/8/2005
Response Action Outcome:	Not reported

Release:

Release Tracking Number/Current Status:	3-0025479 / DPS
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	12/08/2005
Category:	120 DY
Status Date:	12/08/2005
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Oil and Hazardous Material

Click here to access the MA DEP site for this facility:

175 SSW 1/2-1 0.712 mi. 3760 ft. | **POLE 3**
37 VARNUM ST
HAVERHILL, MA 01832 | **SHWS RELEASE** | **S104516947 N/A**

Relative: Higher

Actual: 73 ft.

SHWS:

Release Tracking Number/Current Status:	3-0011969 / RAO
Release Town:	HAVERHILL
Notification Date:	12/14/1994
Category:	TWO HR
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	08/29/1995
Phase:	Not reported
Response Action Outcome:	A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil Or Haz Material:	Oil
Location Type:	MUNICIPAL
Source:	TRANSFORM

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	TRANSFORMER OIL
Quantity:	14 gallons
Chemical:	PCB-CONTAMINATED MATERIAL=>500 ppm
Quantity:	14 gallons

Actions:

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	1/10/1995
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	12/14/1994
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	12/14/1994
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	12/15/1994
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	2/24/1995
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced

POLE 3 (Continued) **S104516947**

to background or a threat of release has been eliminated.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 2/9/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 2/9/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 4/5/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 8/29/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO
Action Status: Fee Received - FMCRA Use Only
Action Date: 9/8/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Release Tracking Number/Current Status: 3-0011969 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 12/14/1994
Category: TWO HR
Status Date: 08/29/1995
Phase: Not reported
Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

176 South 1/2-1 0.715 mi. 3773 ft. | **MVRTA FACILITY**
85 RAILROAD AVE
HAVERHILL, MA 01835 | **SHWS**
SPILLS
RELEASE | **S101024394**
N/A

Relative: Higher

Actual: 34 ft.

SHWS:

Release Tracking Number/Current Status:	3-0029699 / RAO
Release Town:	HAVERHILL
Notification Date:	12/10/2010
Category:	120 DY
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	04/13/2011
Phase:	Not reported
Response Action Outcome:	B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.
Oil Or Haz Material:	Oil and Hazardous Material

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	NAPHTHALENE
Quantity:	16.4 milligrams per kilogram
Chemical:	C9 THRU C10 AROMATIC HYDROCARBONS
Quantity:	607 milligrams per kilogram
Chemical:	PHENANTHRENE
Quantity:	4.56 milligrams per kilogram

Actions:

Action Type:	Response Action Outcome - RAO
Action Status:	Level I - Technical Screen Audit
Action Date:	10/20/2011
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	12/10/2010
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	12/10/2010
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.
Action Type:	RNFE
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	12/10/2010
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	12/28/2010
Response Action Outcome:	Remedial actions have not been conducted because a level of No

MVRTA FACILITY (Continued) **S101024394**

Significant Risk exists.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 4/13/2011
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Release Tracking Number/Current Status: 3-0022173 / RAO
Release Town: HAVERHILL
Notification Date: 10/03/2002
Category: TWO HR
Associated ID: Not reported
Current Status: **Response Action Outcome**
Status Date: 10/09/2003
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material: Oil
Location Type: INDUSTRIAL
Source: PIPE

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: DIESEL FUEL
Quantity: 10 gallons
Chemical: DIESEL FUEL
Quantity: 50 gallons

Actions:
Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 10/3/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 10/3/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 10/30/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Fee Received - FMCRA Use Only
Action Date: 10/8/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

MVRTA FACILITY (Continued) **S101024394**

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 10/9/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 10/9/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 12/11/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 12/2/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 2/20/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 9/3/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

MA Spills:

Facility ID:	3-2771	Spill ID:	N89-1543
Staff Lead:	OTHER	Date Entered:	19891005
Last Entered:	19931231	First Response:	19890913
Spill Date:	19890913	Spill Time:	Not reported
Report Date:	19890913	Report Time:	01:10PM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	VIRGIN	Contam Soil:	Not reported
Env Impact:	SOIL	Other Impact:	Not reported
Material:	#2 FUEL OIL	Other Material:	Not reported
Qty Reported:	UNKNOWN	Qty Actual:	UNKNOWN
Qty Reported:	----------	Qty Actual:	----------
CAS No:	Not reported	PCB Lev (ppm):	NONE
Source:	U.S.T.	Other Source:	Not reported
Incident:	LEAK	Other Incdnt:	Not reported
Cleanup Type:	---	Contractor:	NOT USED
Referral:	SA	LUST Elig:	NO
Report Prep:	Not reported	Category:	Not reported
Notifier:	J CLEMENT NEET		
Notif Tel:	Not reported		

MVRTA FACILITY (Continued) **S101024394**

Days/Close: 0

Release:

Release Tracking Number/Current Status:	3-0022173 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	10/03/2002
Category:	TWO HR
Status Date:	10/09/2003
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0029699 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	12/10/2010
Category:	120 DY
Status Date:	04/13/2011
Phase:	Not reported
Response Action Outcome:	B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.
Oil / Haz Material Type:	Oil and Hazardous Material

Click here to access the MA DEP site for this facility:

AE177 **HOOKER-HOWE COSTUME CO** **SHWS** **S101039581**
ESE **46-52 MAIN ST** **BROWNFIELDS** **N/A**
1/2-1 **HAVERHILL, MA 01830** **SPILLS**
0.716 mi. **RELEASE**
3778 ft. **Site 1 of 2 in cluster AE** **ENF**

Relative: Higher

Actual: 31 ft.

SHWS:

Release Tracking Number/Current Status:	3-0003707 / RAO
Release Town:	HAVERHILL
Notification Date:	10/15/1991
Category:	NONE
Associated ID:	3-0003707
Current Status:	**Response Action Outcome**
Status Date:	05/18/2012
Phase:	PHASE IV
Response Action Outcome:	C1 - C1
Oil Or Haz Material:	Oil
Location Type:	COMMERCIAL
Source:	VENT SYS
Source:	UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	PETROLEUM

HOOKER-HOWE COSTUME CO (Continued) **S101039581**

Quantity: Not reported

Actions:

Action Type: BOL
Action Status: Transmittal, Notice, or Notification Received
Action Date: 1/25/2011
Response Action Outcome: C1

Action Type: Release Disposition
Action Status: Valid Transition Site
Action Date: 10/15/1991
Response Action Outcome: C1

Action Type: Compliance and Enforcement Action
Action Status: Notice of Non-Compliance Issued
Action Date: 10/15/2010
Response Action Outcome: C1

Action Type: An activity type that is related to an Audit
Action Status: NAFVIO
Action Date: 10/29/1996
Response Action Outcome: C1

Action Type: Compliance and Enforcement Action
Action Status: Notice of Non-Compliance Issued
Action Date: 10/29/1996
Response Action Outcome: C1

Action Type: Compliance and Enforcement Action
Action Status: NORA
Action Date: 11/28/2008
Response Action Outcome: C1

Action Type: Compliance and Enforcement Action
Action Status: Interim Deadline Letter Issued
Action Date: 11/28/2008
Response Action Outcome: C1

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 12/13/2006
Response Action Outcome: C1

Action Type: Compliance and Enforcement Action
Action Status: Notice of Non-Compliance Issued
Action Date: 12/13/2006
Response Action Outcome: C1

Action Type: Tier Classification
Action Status: Tier 1C Classification
Action Date: 3/12/2010
Response Action Outcome: C1

Action Type: Tier Classification
Action Status: Revised Statement or Transmittal Received
Action Date: 3/12/2010
Response Action Outcome: C1

HOOKER-HOWE COSTUME CO (Continued) **S101039581**

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 3/12/2010
Response Action Outcome: C1

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 3/12/2010
Response Action Outcome: C1

Action Type: Tier Classification
Action Status: Legal Notice Published
Action Date: 3/18/2010
Response Action Outcome: C1

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 3/21/2007
Response Action Outcome: C1

Action Type: Tier Classification
Action Status: Tier 2 Transfer
Action Date: 3/21/2007
Response Action Outcome: C1

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 3/21/2011
Response Action Outcome: C1

Action Type: Tier Classification
Action Status: Permit Effective Date
Action Date: 4/23/2010
Response Action Outcome: C1

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 4/26/2012
Response Action Outcome: C1

Action Type: RLFA
Action Status: FOLOFF
Action Date: 4/8/2011
Response Action Outcome: C1

Action Type: Phase 3
Action Status: Completion Statement Received
Action Date: 5/15/2012
Response Action Outcome: C1

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via IRA Completion Statement
Action Date: 5/15/2012
Response Action Outcome: C1

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received

HOOKER-HOWE COSTUME CO (Continued) **S101039581**

Action Date: 5/18/2012
Response Action Outcome: C1

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 5/5/2010
Response Action Outcome: C1

Action Type: RLFA
Action Status: FOLOFF
Action Date: 8/24/2011
Response Action Outcome: C1

Action Type: RLFA
Action Status: FLDRUN
Action Date: 8/28/1996
Response Action Outcome: C1

Action Type: Phase 2
Action Status: Notice of Delay in Meeting RA Deadline Received
Action Date: 8/6/1999
Response Action Outcome: C1

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 8/7/1997
Response Action Outcome: C1

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 8/7/1997
Response Action Outcome: C1

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 8/7/1997
Response Action Outcome: C1

Action Type: TREGS
Action Status: LSPFA
Action Date: 8/7/1997
Response Action Outcome: C1

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 9/20/2010
Response Action Outcome: C1

Action Type: BWS03
Action Status: APPROV
Action Date: Not reported
Response Action Outcome: C1

BROWNFIELDS 2:
RTN: 3-0003707
RAO Class: Not reported

HOOKER-HOWE COSTUME CO (Continued) **S101039581**

Other RTNs:	3-0028354
Current Owner:	Housing Support Inc
MCP Status:	TIER 1C
AUL:	No
COCs:	Petroleum
Former Use:	Commercial
Current Use:	Comm Block
Total Acreage:	0.209

MA Spills:

Facility ID:	3-3707	Spill ID:	N91-0886
Staff Lead:	STEWART, B	Date Entered:	19911028
Last Entered:	19940202	First Response:	19910628
Spill Date:	Not reported	Spill Time:	Not reported
Report Date:	19910628	Report Time:	01:15PM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	------	Contam Soil:	Not reported
Env Impact:	----------	Other Impact:	Not reported
Material:	MISCELLANEOUS OIL	Other Material:	Not reported
Qty Reported:	UNKNOWN	Qty Actual:	----------
Qty Reported:	----------	Qty Actual:	----------
CAS No:	Not reported	PCB Lev (ppm):	----------
Source:	----------	Other Source:	Not reported
Incident:	OTHER RELEASE >	Other Incdnt:	UNKNOWN
Cleanup Type:	---	Contractor:	NOT USED
Referral:	SA	LUST Elig:	NO
Report Prep:	Not reported	Category:	Not reported
Notifier:	B HARDY/ESE		
Notif Tel:	Not reported		
Days/Close:	0		

Release:

Release Tracking Number/Current Status:	3-0003707 / RAO
Primary ID:	3-0003707
Official City:	HAVERHILL
Notification:	10/15/1991
Category:	NONE
Status Date:	05/18/2012
Phase:	PHASE IV
Response Action Outcome:	C1 - C1
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

ENFORCEMENT:

Region:	NERO
DEP Region:	NERO
DEP Program:	3C
DEP Bureau:	BWSC
Program:	Not reported
Program Id:	3-0003707
High Or Low Level Enforcement:	LLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Not reported

HOOKER-HOWE COSTUME CO (Continued) **S101039581**

Date Executed:	10/15/2010
ENF #:	NON-NE-10-3C018
Document Type:	NON
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	Y
Regional Comment:	Not reported
Final Payment Due Date:	Not reported
ACOP $:	Not reported
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	Not reported
Ownership:	Commercially Owned

Region:	NERO
DEP Region:	NERO
DEP Program:	3A
DEP Bureau:	BWSC
Program:	Not reported
Program Id:	3-0003707
High Or Low Level Enforcement:	LLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Not reported
Date Executed:	12/13/2006
ENF #:	NON-NE-06-3A200
Document Type:	NON
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	Not reported
Regional Comment:	Not reported
Final Payment Due Date:	Not reported
ACOP $:	Not reported
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	Not reported
Ownership:	Commercially Owned

Region:	NERO
DEP Region:	NERO
DEP Program:	3C
DEP Bureau:	BWSC
Program:	Not reported
Program Id:	3-0003707
High Or Low Level Enforcement:	HLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Not reported
Date Executed:	11/28/2008

HOOKER-HOWE COSTUME CO (Continued) **S101039581**

ENF #:	Not reported
Document Type:	NORA
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	Not reported
Regional Comment:	Not reported
Final Payment Due Date:	Not reported
ACOP $:	Not reported
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	Not reported
Ownership:	Commercially Owned

Region:	NERO
DEP Region:	NERO
DEP Program:	3A
DEP Bureau:	BWSC
Program:	BWSC
Program Id:	3-0003707
High Or Low Level Enforcement:	LLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Not reported
Date Executed:	12/13/2006
ENF #:	NON-NE-06-3A200
Document Type:	NON
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	Not reported
Regional Comment:	Not reported
Final Payment Due Date:	Not reported
ACOP $:	Not reported
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	Not reported
Ownership:	Commercially Owned

AE178 **FORMER HOOKER HOWE COSTUME COMPANY** **SHWS** **S109546122**
ESE **46-52 SOUTH MAIN ST** **RELEASE** **N/A**
1/2-1 **BRADFORD, MA 01835**
0.716 mi.
3778 ft. **Site 2 of 2 in cluster AE**

Relative:
Higher

Actual:
31 ft.

SHWS:

Release Tracking Number/Current Status:	3-0028354 / RAONR
Release Town:	HAVERHILL
Notification Date:	03/04/2009
Category:	72 HR
Associated ID:	3-0003707
Current Status:	**Response Action Outcome Not Required**

FORMER HOOKER HOWE COSTUME COMPANY (Continued) **S109546122**

Status Date:	05/15/2012
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Hazardous Material
Location Type:	COMMERCIAL
Location Type:	PRIVPROP
Location Type:	RESIDNTIAL
Source:	USE
Source:	UNKNOWN
Source:	PROPERTY
Source:	HISTORIC

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	TETRACHLOROETHYLENE
Quantity:	54.6 UG/M3

Actions:

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	ALSENT
Action Date:	1/13/2010
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	12/3/2009
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via Tier Classification Submittal
Action Date:	3/12/2010
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Revised Statement or Transmittal Received
Action Date:	3/12/2010
Response Action Outcome:	Not reported
Action Type:	RAO Not Required
Action Status:	Linked to a Tier Classified Site
Action Date:	3/12/2010
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 1C Classification
Action Date:	3/12/2010
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	RMRINT
Action Date:	3/16/2012
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received

FORMER HOOKER HOWE COSTUME COMPANY (Continued) **S109546122**

Action Date: 3/16/2012
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Legal Notice Published
Action Date: 3/18/2010
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 3/21/2007
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Transfer
Action Date: 3/21/2007
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 3/21/2011
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 3/23/2011
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 3/4/2009
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: IRA Assessment Only
Action Date: 3/4/2009
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Permit Effective Date
Action Date: 4/23/2010
Response Action Outcome: Not reported

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 5/13/2009
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 5/13/2009
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 5/15/2009
Response Action Outcome: Not reported

FORMER HOOKER HOWE COSTUME COMPANY (Continued) **S109546122**

Action Type: RAO Not Required
Action Status: Linked to a Tier Classified Site
Action Date: 5/15/2012
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: RMRFIN
Action Date: 5/15/2012
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 5/15/2012
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via IRA Completion Statement
Action Date: 5/15/2012
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 5/30/2009
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 5/5/2010
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 8/7/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 8/7/1997
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 9/20/2010
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: RMRINI
Action Date: 9/20/2010
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 9/20/2010
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: RMRINT

FORMER HOOKER HOWE COSTUME COMPANY (Continued) **S109546122**

Action Date:	9/23/2011
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	9/23/2011
Response Action Outcome:	Not reported

Release:

Release Tracking Number/Current Status:	3-0028354 / RAONR
Primary ID:	3-0003707
Official City:	HAVERHILL
Notification:	03/04/2009
Category:	72 HR
Status Date:	05/15/2012
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Hazardous Material

Click here to access the MA DEP site for this facility:

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179 SSW 1/2-1 0.720 mi. 3800 ft. | **TEXTRON DEFENSE SYSTEMS** | **SHWS LUST RELEASE** | **S101697386 N/A**
285 SOUTH RIVER ST
HAVERHILL, MA 01830

Relative: Lower

Actual: 22 ft.

SHWS:

Release Tracking Number/Current Status:	3-0001838 / WCSPRM
Release Town:	HAVERHILL
Notification Date:	01/15/1989
Category:	NONE
Associated ID:	Not reported
Current Status:	**Waiver Completion Statement Permanent**
Status Date:	01/11/1996
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Not reported
Location Type:	INDUSTRIAL
Source:	LAGOON
Source:	UST
Source:	TRANSFORM

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	PCBS
Quantity:	Not reported

Actions:

Action Type:	TREGS
Action Status:	WCSPRM
Action Date:	1/11/1996
Response Action Outcome:	Not reported

TEXTRON DEFENSE SYSTEMS (Continued) **S101697386**

Action Type:	Release Disposition
Action Status:	Valid Transition Site
Action Date:	1/15/1989
Response Action Outcome:	Not reported

Action Type:	TREGS
Action Status:	WAVREC
Action Date:	5/29/1992
Response Action Outcome:	Not reported

Action Type:	TREGS
Action Status:	WAVSIG
Action Date:	8/24/1992
Response Action Outcome:	Not reported

Action Type:	TREGS
Action Status:	WAVACC
Action Date:	9/8/1992
Response Action Outcome:	Not reported

LUST:

Facility:

Release Tracking Number/Current Status:	3-0001838 / WCSPRM
Status Date:	01/11/1996
Source Type:	UST
Release Town:	HAVERHILL
Notification Date:	01/15/1989
Category:	NONE
Associated ID:	Not reported
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Not reported

Location Type:	INDUSTRIAL
Source:	LAGOON
Source:	UST
Source:	TRANSFORM

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	PCBS
Quantity:	Not reported

Actions:

Action Type:	TREGS
Action Status:	WCSPRM
Action Date:	1/11/1996
Response Action Outcome:	Not reported

Action Type:	Release Disposition
Action Status:	Valid Transition Site
Action Date:	1/15/1989

TEXTRON DEFENSE SYSTEMS (Continued) **S101697386**

Response Action Outcome: Not reported

Action Type: TREGS
Action Status: WAVREC
Action Date: 5/29/1992
Response Action Outcome: Not reported

Action Type: TREGS
Action Status: WAVSIG
Action Date: 8/24/1992
Response Action Outcome: Not reported

Action Type: TREGS
Action Status: WAVACC
Action Date: 9/8/1992
Response Action Outcome: Not reported

Release:
Release Tracking Number/Current Status: 3-0001838 / WCSPRM
Primary ID: Not reported
Official City: HAVERHILL
Notification: 01/15/1989
Category: NONE
Status Date: 01/11/1996
Phase: Not reported
Response Action Outcome: -
Oil / Haz Material Type: Not reported

Click here to access the MA DEP site for this facility:

180
NW
1/2-1
0.754 mi.
3982 ft.

MAPLE DOWNS DEVELOPMENT
PILGRIM RD
HAVERHILL, MA 01830

SHWS **S100361381**
RELEASE **N/A**

Relative:
Higher

Actual:
107 ft.

SHWS:
Release Tracking Number/Current Status: 3-0001353 / DEPNFA
Release Town: HAVERHILL
Notification Date: 01/15/1989
Category: NONE
Associated ID: Not reported
Current Status: **No Further Action (DEP Determined)**
Status Date: 02/03/1988
Phase: Not reported
Response Action Outcome: -
Oil Or Haz Material: Not reported

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: UNKNOWN
Quantity: Not reported

MAPLE DOWNS DEVELOPMENT (Continued) **S100361381**

Actions:

Action Type:	Release Disposition
Action Status:	Valid Transition Site
Action Date:	1/15/1989
Response Action Outcome:	Not reported
Action Type:	TREGS
Action Status:	DEPNFA
Action Date:	2/3/1988
Response Action Outcome:	Not reported

Release:

Release Tracking Number/Current Status:	3-0001353 / DEPNFA
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	01/15/1989
Category:	NONE
Status Date:	02/03/1988
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Not reported

Click here to access the MA DEP site for this facility:

AF181 **CENTRAL SQUARE** **SHWS** **S105200076**
SE **72-76 SOUTH MAIN ST** **INST CONTROL** **N/A**
1/2-1 **HAVERHILL, MA** **RELEASE**
0.761 mi. **ENF**
4016 ft. **Site 1 of 2 in cluster AF**

Relative: Higher

Actual: 42 ft.

SHWS:

Release Tracking Number/Current Status:	3-0021140 / RAO
Release Town:	HAVERHILL
Notification Date:	09/28/2001
Category:	120 DY
Associated ID:	3-0021140
Current Status:	**Response Action Outcome**
Status Date:	09/20/2013
Phase:	PHASE V
Response Action Outcome:	A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Oil Or Haz Material:	Oil

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	C9 THRU C10 AROMATIC HYDROCARBONS
Quantity:	810 milligrams per kilogram
Chemical:	C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity:	130000 micrograms per liter

Actions:

Action Type:	Phase 5

CENTRAL SQUARE (Continued) **S105200076**

Action Status: Status or Interim Report Received
Action Date: 1/18/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 1/2/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 1/20/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 5
Action Status: Status or Interim Report Received
Action Date: 1/23/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 5
Action Status: RMRINT
Action Date: 1/23/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 1/3/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 4
Action Status: Completion Statement Received
Action Date: 1/4/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 5
Action Status: Remedy Operation Status Submittal Received
Action Date: 1/4/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received

CENTRAL SQUARE (Continued) **S105200076**

Action Date: 1/5/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 10/21/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 10/28/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 12/28/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 5
Action Status: RMRINT
Action Date: 12/28/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 12/29/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 5
Action Status: RMRINT
Action Date: 12/29/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 12/30/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 5
Action Status: RMRINT
Action Date: 12/30/2008

CENTRAL SQUARE (Continued) **S105200076**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 3/13/2014
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Status: Level I - Technical Screen Audit
Action Date: 3/13/2014
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Compliance and Enforcement Action
Action Status: Notice of Non-Compliance Issued
Action Date: 3/16/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 5
Action Status: RMRINI
Action Date: 3/30/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 5
Action Status: RMRINT
Action Date: 3/30/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 4/23/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Status: Level II - Audit Inspection
Action Date: 5/19/2014
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 5/25/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

CENTRAL SQUARE (Continued) **S105200076**

reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 5/8/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: An activity type that is related to an Audit
Action Status: NAFNVD
Action Date: 6/13/2014
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 4
Action Status: Written Plan Received
Action Date: 6/28/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 6/28/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 5
Action Status: RMRINT
Action Date: 6/28/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 5
Action Status: RMRINT
Action Date: 6/29/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 6/29/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 6/29/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

CENTRAL SQUARE (Continued) **S105200076**

been implemented.

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 7/10/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 7/10/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 7/10/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 7/10/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 7/10/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 5
Action Status: Status or Interim Report Received
Action Date: 7/10/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 5
Action Status: RMRINT
Action Date: 7/11/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 3
Action Status: Completion Statement Received
Action Date: 7/2/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

CENTRAL SQUARE (Continued) **S105200076**

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 7/2/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 5
Action Status: Status or Interim Report Received
Action Date: 7/3/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 7/3/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 7/6/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 5
Action Status: Status or Interim Report Received
Action Date: 7/7/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 5
Action Status: RMRINT
Action Date: 7/7/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 5
Action Status: Remedy Operation Status Submittal Received
Action Date: 7/7/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Legal Notice Published
Action Date: 8/16/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation

CENTRAL SQUARE (Continued) **S105200076**

Action Status: Transmittal, Notice, or Notification Received
Action Date: 9/20/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 9/20/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 9/28/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 9/28/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

INST CONTROL:
Release Tracking Number: 3-0021140
Action Type: AUL
Action Stat: RECPT
Action Date: 09/20/2013
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release Tracking Number: 3-0021140
Action Type: AUL
Action Stat: SNAUDI
Action Date: 05/19/2014
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release Tracking Number: 3-0021140
Action Type: AUL
Action Stat: TSAUD
Action Date: 03/13/2014
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release:
Release Tracking Number/Current Status: 3-0021140 / RAO
Primary ID: 3-0021140

CENTRAL SQUARE (Continued) **S105200076**

Official City:	HAVERHILL
Notification:	09/28/2001
Category:	120 DY
Status Date:	09/20/2013
Phase:	PHASE V
Response Action Outcome:	A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

ENFORCEMENT:

Region:	NERO
DEP Region:	NERO
DEP Program:	3R
DEP Bureau:	BWSC
Program:	Not reported
Program Id:	3-0021140
High Or Low Level Enforcement:	LLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Not reported
Date Executed:	03/16/2007
ENF #:	NON-NE-07-3R008
Document Type:	NON
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	Not reported
Regional Comment:	Not reported
Final Payment Due Date:	Not reported
ACOP $:	Not reported
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	Not reported
Ownership:	Commercially Owned

AF182 **INT FERRY ST** **SHWS** **S105521930**
SE **71 TO 76 SOUTH MAIN ST** **RELEASE** **N/A**
1/2-1 **HAVERHILL, MA**
0.765 mi.
4041 ft. **Site 2 of 2 in cluster AF**

Relative:
Higher

Actual:
42 ft.

SHWS:

Release Tracking Number/Current Status:	3-0021542 / RAONR
Release Town:	HAVERHILL
Notification Date:	03/05/2002
Category:	72 HR
Associated ID:	3-0021140
Current Status:	**Response Action Outcome Not Required**
Status Date:	07/11/2002
Phase:	Not reported

INT FERRY ST (Continued) **S105521930**

Response Action Outcome: -
Oil Or Haz Material: Oil
Location Type: COMMERCIAL
Source: UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: NAPL
Quantity: .5 inches
Chemical: GASOLINE
Quantity: 19 inches

Actions:
Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 1/20/2004
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 10/21/2003
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 10/28/2002
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: IRA Assessment Only
Action Date: 3/5/2002
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 3/5/2002
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 4/19/2002
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 4/23/2003
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 5/6/2002
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E

INT FERRY ST (Continued) **S105521930**

Action Date:	5/6/2002
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	5/8/2007
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	7/10/2002
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	7/10/2002
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via Tier Classification Submittal
Action Date:	7/10/2002
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	7/10/2002
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Written Plan Received
Action Date:	7/10/2002
Response Action Outcome:	Not reported
Action Type:	RAO Not Required
Action Status:	Linked to a Tier Classified Site
Action Date:	7/11/2002
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Legal Notice Published
Action Date:	8/16/2002
Response Action Outcome:	Not reported

Release:

Release Tracking Number/Current Status:	3-0021542 / RAONR
Primary ID:	3-0021140
Official City:	HAVERHILL
Notification:	03/05/2002
Category:	72 HR
Status Date:	07/11/2002
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Oil

INT FERRY ST (Continued) **S105521930**

Click here to access the MA DEP site for this facility:

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183 ESE 1/2-1 0.770 mi. 4067 ft.

MERRIVISTA FACILITY
100 WATER STREET
HAVERHILL, MA 01830

SHWS S117405644
LUST N/A
RELEASE

Relative: Lower

Actual: 18 ft.

SHWS:

Release Tracking Number/Current Status:	3-0032505 / PSNC
Release Town:	HAVERHILL
Notification Date:	10/14/2014
Category:	120 DY
Associated ID:	Not reported
Current Status:	**PSNC**
Status Date:	02/10/2015
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Oil
Source:	TANK
Source:	UNKNOWN
Source:	UST

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	TOTAL PETROLEUM HYDROCARBONS (TPH)
Quantity:	1380 milligrams per kilogram

Actions:

Action Type:	BOL
Action Status:	SHPFAC
Action Date:	1/30/2015
Response Action Outcome:	Not reported
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	10/14/2014
Response Action Outcome:	Not reported
Action Type:	RNFE
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	10/14/2014
Response Action Outcome:	Not reported
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	10/14/2014
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Written Plan Received
Action Date:	10/23/2014
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure

MERRIVISTA FACILITY (Continued) **S117405644**

Action Status: Level I - Technical Screen Audit
Action Date: 10/23/2014
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 10/31/2014
Response Action Outcome: Not reported

Action Type: BOL
Action Status: Transmittal, Notice, or Notification Received
Action Date: 11/3/2014
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Fee Received - FMCRA Use Only
Action Date: 12/17/2014
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 2/10/2015
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO
Action Status: PSNRCD
Action Date: 2/10/2015
Response Action Outcome: Not reported

LUST:

Facility:
Release Tracking Number/Current Status: 3-0032505 / PSNC
Status Date: 02/10/2015
Source Type: UST
Release Town: HAVERHILL
Notification Date: 10/14/2014
Category: 120 DY
Associated ID: Not reported
Phase: Not reported
Response Action Outcome: -
Oil Or Haz Material: Oil

Source: TANK
Source: UNKNOWN
Source: UST

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: TOTAL PETROLEUM HYDROCARBONS (TPH)
Quantity: 1380 milligrams per kilogram

Actions:

MERRIVISTA FACILITY (Continued) **S117405644**

Action Type: BOL
Action Status: SHPFAC
Action Date: 1/30/2015
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 10/14/2014
Response Action Outcome: Not reported

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 10/14/2014
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 10/14/2014
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 10/23/2014
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 10/23/2014
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 10/31/2014
Response Action Outcome: Not reported

Action Type: BOL
Action Status: Transmittal, Notice, or Notification Received
Action Date: 11/3/2014
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Fee Received - FMCRA Use Only
Action Date: 12/17/2014
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 2/10/2015
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO
Action Status: PSNRCD
Action Date: 2/10/2015
Response Action Outcome: Not reported

MERRIVISTA FACILITY (Continued) **S117405644**

Release:

Release Tracking Number/Current Status:	3-0032505 / PSNC
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	10/14/2014
Category:	120 DY
Status Date:	02/10/2015
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

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184 SSW 1/2-1 0.774 mi. 4089 ft. **JAFFARIANS SERVICE INC** **SHWS** **S104482287**
312 RIVER ST **LAST** **N/A**
HAVERHILL, MA 01832 **LUST**
INST CONTROL
RELEASE
HW GEN

Relative: Lower

Actual: 22 ft.

SHWS:

Release Tracking Number/Current Status:	3-0022083 / RAO
Release Town:	HAVERHILL
Notification Date:	09/09/2002
Category:	TWO HR
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	11/08/2002
Phase:	Not reported
Response Action Outcome:	A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil Or Haz Material:	Not reported
Location Type:	WATERBODY
Location Type:	COMMERCIAL
Source:	PIPE
Source:	AST

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	ENGINE OIL
Quantity:	300 gallons
Chemical:	ENGINE OIL
Quantity:	250 gallons

Actions:

Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	11/7/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	11/8/2002

JAFFARIANS SERVICE INC (Continued) **S104482287**

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA
Action Status: FLDRAN
Action Date: 9/10/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 9/20/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action
Action Status: Oral Approval of a Modified Plan
Action Date: 9/25/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 9/9/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 9/9/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: FLDISS
Action Date: 9/9/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA
Action Status: FLDDO
Action Date: 9/9/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA
Action Status: FLDRAN
Action Date: 9/9/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

LAST:
Release Tracking Number/Current Status: 3-0022083 / RAO
Source Type: AST
Release Town: HAVERHILL
Notification Date: 09/09/2002

JAFFARIANS SERVICE INC (Continued) **S104482287**

Category: TWO HR
Associated ID: Not reported
Status Date: 11/08/2002
Phase: Not reported
Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil Or Haz Material: Not reported

Chemicals:
Chemical: ENGINE OIL
Quantity: 300 gallons
Chemical: ENGINE OIL
Quantity: 250 gallons
Location Type: WATERBODY
Location Type: COMMERCIAL
Source: PIPE
Source: AST

Actions:
Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 11/7/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 11/8/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA
Action Status: FLDRAN
Action Date: 9/10/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 9/20/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action
Action Status: Oral Approval of a Modified Plan
Action Date: 9/25/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 9/9/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 9/9/2002

JAFFARIANS SERVICE INC (Continued) **S104482287**

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: FLDISS
Action Date: 9/9/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA
Action Status: FLDDO
Action Date: 9/9/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA
Action Status: FLDRAN
Action Date: 9/9/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

LUST:

Facility:
Release Tracking Number/Current Status: 3-0018852 / RAO
Status Date: 10/20/2000
Source Type: UST
Release Town: HAVERHILL
Notification Date: 10/15/1999
Category: 72 HR
Associated ID: Not reported
Phase: Not reported
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Oil Or Haz Material: Oil

Location Type: COMMERCIAL
Source: UST

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: GASOLINE
Quantity: 380 parts per million
Chemical: GASOLINE
Quantity: 5200 milligrams per kilogram

Actions:
Action Type: An activity type that is related to an Audit
Action Status: NAFNVD
Action Date: 1/22/2004
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more

JAFFARIANS SERVICE INC (Continued) **S104482287**

AULs that have been implemented.

Action Type: Immediate Response Action
Action Status: IRA Assessment Only
Action Date: 10/15/1999
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 10/15/1999
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation
Action Status: Transmittal, Notice, or Notification Received
Action Date: 10/20/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 10/20/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 10/20/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Fee Received - FMCRA Use Only
Action Date: 10/24/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation
Action Status: Level II - Audit Inspection
Action Date: 10/24/2003
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Compliance and Enforcement Action
Action Status: Interim Deadline Letter Issued
Action Date: 11/16/1999
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

JAFFARIANS SERVICE INC (Continued) **S104482287**

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 11/16/1999
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation
Action Status: Legal Notice Published
Action Date: 11/2/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 12/15/1999
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 12/15/1999
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 3/17/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

INST CONTROL:
Release Tracking Number: 3-0018852
Action Type: AUL
Action Stat: LEGNOT
Action Date: 11/02/2000
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number: 3-0018852
Action Type: AUL
Action Stat: RECPT
Action Date: 10/20/2000
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number: 3-0018852
Action Type: AUL
Action Stat: SNAUDI
Action Date: 10/24/2003

JAFFARIANS SERVICE INC (Continued) **S104482287**

Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release:

Release Tracking Number/Current Status:	3-0018852 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	10/15/1999
Category:	72 HR
Status Date:	10/20/2000
Phase:	Not reported
Response Action Outcome:	B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0022083 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	09/09/2002
Category:	TWO HR
Status Date:	11/08/2002
Phase:	Not reported
Response Action Outcome:	A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil / Haz Material Type:	Not reported

Click here to access the MA DEP site for this facility:

HW GEN:

EPA Id:	MAD019393420
RCRA Generator Status:	VSQG
State Generator Status:	SQG-MA

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185 SE 1/2-1 0.798 mi. 4213 ft. | **BRADFORD SHELL STATION** | **SHWS** | **S100828879**
154 SOUTH MAIN ST | **LUST** | **N/A**
HAVERHILL, MA 01830 | **RELEASE**

Relative: Higher

Actual: 47 ft.

SHWS:

Release Tracking Number/Current Status:	3-0024996 / RAO
Release Town:	HAVERHILL
Notification Date:	06/29/2005
Category:	TWO HR
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	08/29/2005
Phase:	Not reported
Response Action Outcome:	A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil Or Haz Material:	Oil

BRADFORD SHELL STATION (Continued) **S100828879**

Location Type:	COMMERCIAL
Location Type:	MUNICIPAL
Location Type:	ROADWAY
Source:	PIPE
Source:	VEHICLE

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	GASOLINE
Quantity:	10 gallons

Actions:

Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	6/29/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	6/29/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	6/29/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	7/28/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	8/29/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	8/29/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release Tracking Number/Current Status:	3-0000012 / REMOPS
Release Town:	HAVERHILL
Notification Date:	01/15/1987
Category:	NONE
Associated ID:	3-0000012
Current Status:	**Remedy Operation Status**

BRADFORD SHELL STATION (Continued) **S100828879**

Status Date:	08/01/2012
Phase:	PHASE V
Response Action Outcome:	-
Oil Or Haz Material:	Not reported
Location Type:	GASSTATION
Source:	PIPE

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	UNKNOWN
Quantity:	Not reported

Actions:

Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received
Action Date:	1/14/2009
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	1/14/2009
Response Action Outcome:	Not reported
Action Type:	Release Disposition
Action Status:	Valid Transition Site
Action Date:	1/15/1987
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	1/21/2014
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received
Action Date:	1/21/2014
Response Action Outcome:	Not reported
Action Type:	TREGS
Action Status:	WAVSIG
Action Date:	1/25/1994
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	1/25/2000
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	1/27/1999
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received

BRADFORD SHELL STATION (Continued) **S100828879**

Action Date:	1/28/2008
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	1/28/2008
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	1/28/2010
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received
Action Date:	1/28/2010
Response Action Outcome:	Not reported
Action Type:	Phase 4
Action Status:	Completion Statement Received
Action Date:	1/31/2003
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Status or Interim Report Received
Action Date:	1/31/2005
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	RMRINT
Action Date:	1/31/2007
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Remedy Operation Status Report Received
Action Date:	1/31/2007
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Transfer
Action Date:	10/22/1998
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	10/3/2001
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Completion Statement Received
Action Date:	11/12/2004
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Written Plan Received
Action Date:	11/23/2001
Response Action Outcome:	Not reported

BRADFORD SHELL STATION (Continued) **S100828879**

Action Type: Compliance and Enforcement Action
Action Status: Notice of Non-Compliance Issued
Action Date: 12/10/2001
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 12/27/2005
Response Action Outcome: Not reported

Action Type: TREGS
Action Status: WAVACC
Action Date: 2/1/1994
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 2/1/1994
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 2/1/1999
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 2/1/2006
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 2/1/2011
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 2/1/2011
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Submittal Received
Action Date: 2/1/2012
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 2/1/2012
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 2/1/2013
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received

BRADFORD SHELL STATION (Continued) **S100828879**

Action Date: 2/1/2013
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 2/14/2002
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 2/18/2015
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 2/18/2015
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 2/19/2002
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Submittal Received
Action Date: 2/2/2004
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 2/21/2002
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FLDRUN
Action Date: 2/28/1996
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Submittal Received
Action Date: 2/3/2003
Response Action Outcome: Not reported

Action Type: Phase 3
Action Status: Completion Statement Received
Action Date: 2/8/2002
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 2/9/2007
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 3/1/2006
Response Action Outcome: Not reported

BRADFORD SHELL STATION (Continued) **S100828879**

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 3/16/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 3/25/2008
Response Action Outcome: Not reported

Action Type: TAG
Action Status: GRNTST
Action Date: 4/1/1997
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 4/7/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 5/2/2007
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 5/25/2006
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 5/29/2001
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 5/29/2001
Response Action Outcome: Not reported

Action Type: TREGS
Action Status: WAVREC
Action Date: 5/7/1993
Response Action Outcome: Not reported

Action Type: Phase 4
Action Status: Written Plan Received
Action Date: 5/9/2002
Response Action Outcome: Not reported

Action Type: TAG
Action Status: GRNTEN
Action Date: 6/30/1998
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT

BRADFORD SHELL STATION (Continued) **S100828879**

Action Date: 7/10/2008
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 7/10/2008
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 7/15/2002
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 7/16/1999
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 7/20/2004
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 7/23/2014
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 7/23/2014
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Submittal Received
Action Date: 7/25/2011
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 7/25/2011
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Submittal Received
Action Date: 7/29/2003
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Status or Interim Report Received
Action Date: 7/29/2005
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 7/31/2006
Response Action Outcome: Not reported

BRADFORD SHELL STATION (Continued) **S100828879**

Action Type: Phase 5
Action Status: RMRINI
Action Date: 7/31/2006
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 7/7/2009
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 7/7/2009
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Submittal Received
Action Date: 8/1/2012
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 8/1/2012
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 8/1/2013
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 8/1/2015
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 8/1/2015
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT
Action Date: 8/2/2007
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 8/2/2007
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: Remedy Operation Status Report Received
Action Date: 8/2/2010
Response Action Outcome: Not reported

Action Type: Phase 5
Action Status: RMRINT

BRADFORD SHELL STATION (Continued) **S100828879**

Action Date:	8/2/2010
Response Action Outcome:	Not reported
Action Type:	Phase 5
Action Status:	Inspection and Monitoring Report Received
Action Date:	8/4/2004
Response Action Outcome:	Not reported
Action Type:	Phase 3
Action Status:	Notice of Delay in Meeting RA Deadline Received
Action Date:	9/19/2001
Response Action Outcome:	Not reported

Release Tracking Number/Current Status:	3-0026597 / RAONR
Release Town:	HAVERHILL
Notification Date:	02/09/2007
Category:	120 DY
Associated ID:	3-0000012
Current Status:	**Response Action Outcome Not Required**
Status Date:	05/02/2007
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Oil
Location Type:	COMMERCIAL
Location Type:	PRIVPROP
Source:	UST
Source:	UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	GASOLINE
Quantity:	Not reported

Actions:

Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	1/25/2000
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	1/27/1999
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Transfer
Action Date:	10/22/1998
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	2/1/1994
Response Action Outcome:	Not reported

BRADFORD SHELL STATION (Continued) **S100828879**

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 2/1/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 2/14/2002
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure
Action Status: Notification of URAM Received
Action Date: 2/21/2007
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 2/9/2007
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure
Action Status: Notice of Intent to Conduct a URAM
Action Date: 2/9/2007
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 3/25/2008
Response Action Outcome: Not reported

Action Type: RAO Not Required
Action Status: Linked to a Tier Classified Site
Action Date: 5/2/2007
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 5/2/2007
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 5/29/2001
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure
Action Status: Completion Statement Received
Action Date: 5/3/2007
Response Action Outcome: Not reported

LUST:

Facility:
Release Tracking Number/Current Status: 3-0026597 / RAONR
Status Date: 05/02/2007
Source Type: UST

BRADFORD SHELL STATION (Continued) **S100828879**

Release Town:	HAVERHILL
Notification Date:	02/09/2007
Category:	120 DY
Associated ID:	3-0000012
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Oil
Location Type:	COMMERCIAL
Location Type:	PRIVPROP
Source:	UST
Source:	UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	GASOLINE
Quantity:	Not reported

Actions:

Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	1/25/2000
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	1/27/1999
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Transfer
Action Date:	10/22/1998
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	2/1/1994
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	2/1/1999
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	2/14/2002
Response Action Outcome:	Not reported
Action Type:	Utility-related Abatement Measure
Action Status:	Notification of URAM Received
Action Date:	2/21/2007
Response Action Outcome:	Not reported

BRADFORD SHELL STATION (Continued) **S100828879**

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	2/9/2007
Response Action Outcome:	Not reported
Action Type:	Utility-related Abatement Measure
Action Status:	Notice of Intent to Conduct a URAM
Action Date:	2/9/2007
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via Tier Classification Submittal
Action Date:	3/25/2008
Response Action Outcome:	Not reported
Action Type:	RAO Not Required
Action Status:	Linked to a Tier Classified Site
Action Date:	5/2/2007
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via Tier Classification Submittal
Action Date:	5/2/2007
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	5/29/2001
Response Action Outcome:	Not reported
Action Type:	Utility-related Abatement Measure
Action Status:	Completion Statement Received
Action Date:	5/3/2007
Response Action Outcome:	Not reported

Facility:

Release Tracking Number/Current Status:	3-0026869 / RAONR
Status Date:	03/25/2008
Source Type:	UST
Release Town:	HAVERHILL
Notification Date:	05/31/2007
Category:	TWO HR
Associated ID:	3-0000012
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Oil
Location Type:	INDUSTRIAL
Location Type:	RESIDNTIAL
Location Type:	ROADWAY
Location Type:	COMMERCIAL
Source:	UST

Click here to access the MA DEP site for this facility:

BRADFORD SHELL STATION (Continued) **S100828879**

Chemicals:

Chemical:	GASOLINE
Quantity:	10 gallons
Chemical:	GASOLINE
Quantity:	25 gallons

Actions:

Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	1/25/2000
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	1/27/1999
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Transfer
Action Date:	10/22/1998
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	2/1/1994
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	2/1/1999
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	2/14/2002
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	ALSENT
Action Date:	3/17/2008
Response Action Outcome:	Not reported
Action Type:	RAO Not Required
Action Status:	Linked to a Tier Classified Site
Action Date:	3/25/2008
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via Tier Classification Submittal
Action Date:	3/25/2008
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	3/25/2008
Response Action Outcome:	Not reported

BRADFORD SHELL STATION (Continued) **S100828879**

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 5/2/2007
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 5/29/2001
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 5/31/2007
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 5/31/2007
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: FLDISS
Action Date: 5/31/2007
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 5/31/2007
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 7/5/2007
Response Action Outcome: Not reported

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 9/19/2007
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 9/19/2007
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 9/19/2007
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 9/19/2007
Response Action Outcome: Not reported

BRADFORD SHELL STATION (Continued) **S100828879**

Release:

Release Tracking Number/Current Status:	3-0000012 / REMOPS
Primary ID:	3-0000012
Official City:	HAVERHILL
Notification:	01/15/1987
Category:	NONE
Status Date:	08/01/2012
Phase:	PHASE V
Response Action Outcome:	-
Oil / Haz Material Type:	Not reported

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0024996 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	06/29/2005
Category:	TWO HR
Status Date:	08/29/2005
Phase:	Not reported
Response Action Outcome:	A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0026597 / RAONR
Primary ID:	3-0000012
Official City:	HAVERHILL
Notification:	02/09/2007
Category:	120 DY
Status Date:	05/02/2007
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0026869 / RAONR
Primary ID:	3-0000012
Official City:	HAVERHILL
Notification:	05/31/2007
Category:	TWO HR
Status Date:	03/25/2008
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

186 SSW 1/2-1 0.812 mi. 4286 ft.

Relative: Higher

Actual: 25 ft.

POPE MACHINERY INC
261 RIVER ST
HAVERHILL, MA 01830

SHWS **1000197429**
LUST **MAD001008135**
INST CONTROL
RELEASE
RCRA NonGen / NLR
FINDS
ENF
ECHO

SHWS:

Release Tracking Number/Current Status:	3-0002940 / RAO
Release Town:	HAVERHILL
Notification Date:	07/15/1993
Category:	NONE
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	09/06/1996
Phase:	PHASE III
Response Action Outcome:	B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Oil Or Haz Material:	Oil
Location Type:	FORMER
Location Type:	MANUFACT
Location Type:	INDUSTRIAL
Source:	UST
Source:	UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	PETROLEUM
Quantity:	Not reported

Actions:

Action Type:	TREGS
Action Status:	WAVSIG
Action Date:	1/13/1993
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	RLFA
Action Status:	FLDRUN
Action Date:	10/13/1998
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	An activity type that is related to an Audit
Action Status:	Notice of Non-compliance related to an Audit
Action Date:	12/6/2007
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	TREGS
Action Status:	WAVACC

POPE MACHINERY INC (Continued) **1000197429**

Action Date:	2/9/1993
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	3/12/1999
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Compliance and Enforcement Action
Action Status:	Notice of Enforcement Conference
Action Date:	4/15/2008
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Activity and Use Limitation
Action Status:	Level II - Audit Inspection
Action Date:	4/26/2007
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	RLFA
Action Status:	FLDRUN
Action Date:	4/26/2007
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Compliance and Enforcement Action
Action Status:	Notice of Enforcement Conference
Action Date:	4/30/2008
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	5/14/2008
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	5/21/2007
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Compliance and Enforcement Action
Action Status:	ACOP
Action Date:	6/17/2008

POPE MACHINERY INC (Continued) **1000197429**

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: An activity type that is related to an Audit
Action Status: Notice of Non-compliance related to an Audit
Action Date: 6/19/2007
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: TREGS
Action Status: WAVREC
Action Date: 6/25/1992
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Release Disposition
Action Status: Valid Transition Site
Action Date: 6/25/1992
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation
Action Status: Transmittal, Notice, or Notification Received
Action Date: 8/15/1996
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 8/6/1996
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Compliance and Enforcement Action
Action Status: ACOP
Action Date: 8/8/2008
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 9/6/1996
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 9/6/1996
Response Action Outcome: Remedial actions have not been conducted because a level of No

POPE MACHINERY INC (Continued) **1000197429**

Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: An activity type that is related to an Audit
Action Status: NOA
Action Date: 9/8/1998
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

LUST:

Facility:
Release Tracking Number/Current Status: 3-0002940 / RAO
Status Date: 09/06/1996
Source Type: UST
Release Town: HAVERHILL
Notification Date: 07/15/1993
Category: NONE
Associated ID: Not reported
Phase: PHASE III
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Oil Or Haz Material: Oil

Location Type: FORMER
Location Type: MANUFACT
Location Type: INDUSTRIAL
Source: UST
Source: UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: PETROLEUM
Quantity: Not reported

Actions:
Action Type: TREGS
Action Status: WAVSIG
Action Date: 1/13/1993
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: RLFA
Action Status: FLDRUN
Action Date: 10/13/1998
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: An activity type that is related to an Audit

POPE MACHINERY INC (Continued) **1000197429**

Action Status: Notice of Non-compliance related to an Audit
Action Date: 12/6/2007
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: TREGS
Action Status: WAVACC
Action Date: 2/9/1993
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Compliance and Enforcement Action
Action Status: Interim Deadline Letter Issued
Action Date: 3/12/1999
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Compliance and Enforcement Action
Action Status: Notice of Enforcement Conference
Action Date: 4/15/2008
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation
Action Status: Level II - Audit Inspection
Action Date: 4/26/2007
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: RLFA
Action Status: FLDRUN
Action Date: 4/26/2007
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Compliance and Enforcement Action
Action Status: Notice of Enforcement Conference
Action Date: 4/30/2008
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 5/14/2008
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: RLFA
Action Status: FOLOFF

POPE MACHINERY INC (Continued) **1000197429**

Action Date:	5/21/2007
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Compliance and Enforcement Action
Action Status:	ACOP
Action Date:	6/17/2008
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	An activity type that is related to an Audit
Action Status:	Notice of Non-compliance related to an Audit
Action Date:	6/19/2007
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	TREGS
Action Status:	WAVREC
Action Date:	6/25/1992
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Release Disposition
Action Status:	Valid Transition Site
Action Date:	6/25/1992
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Activity and Use Limitation
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	8/15/1996
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	8/6/1996
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Compliance and Enforcement Action
Action Status:	ACOP
Action Date:	8/8/2008
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	9/6/1996

POPE MACHINERY INC (Continued) **1000197429**

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 9/6/1996
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: An activity type that is related to an Audit
Action Status: NOA
Action Date: 9/8/1998
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

INST CONTROL:
Release Tracking Number: 3-0002940
Action Type: AUL
Action Stat: RECPT
Action Date: 08/15/1996
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number: 3-0002940
Action Type: AUL
Action Stat: SNAUDI
Action Date: 04/26/2007
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release:
Release Tracking Number/Current Status: 3-0002940 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 07/15/1993
Category: NONE
Status Date: 09/06/1996
Phase: PHASE III
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

RCRA NonGen / NLR:
Date form received by agency: 08/27/2004
Facility name: POPE MACHINERY INC
Facility address: 261 RIVER ST

POPE MACHINERY INC (Continued) **1000197429**

	HAVERHILL, MA 01830
EPA ID:	MAD001008135
Contact:	SAWYER NATHANIEL
Contact address:	261 RIVER ST
	HAVERHILL, MA 01830
Contact country:	US
Contact telephone:	(508) 373-5678
Contact email:	Not reported
EPA Region:	01
Land type:	Private
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	BRAMMER CORPORATION
Owner/operator address:	261 RIVER ST
	HAVERHILL, MA 01830
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/1900
Owner/Op end date:	Not reported

Owner/operator name:	POPE MACHINERY INC
Owner/operator address:	261 RIVER ST
	HAVERHILL, MA 01830
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	12/08/1991
Owner/Op end date:	08/27/2004

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code:	D001
. Waste name:	IGNITABLE WASTE

Historical Generators:

Date form received by agency: 02/26/1986

POPE MACHINERY INC (Continued) **1000197429**

Site name: POPE MACHINERY INC
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

Facility Has Received Notices of Violations:
Regulation violated: SR - 30.682
Area of violation: Generators - Pre-transport
Date violation determined: 04/16/1992
Date achieved compliance: 04/16/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/30/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 30.685(1)
Area of violation: Generators - Pre-transport
Date violation determined: 04/16/1992
Date achieved compliance: 04/16/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/30/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 30.340(1)(d)
Area of violation: Generators - General
Date violation determined: 04/16/1992
Date achieved compliance: 04/16/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/30/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 30.340(1)(b)
Area of violation: Generators - Pre-transport
Date violation determined: 04/16/1992
Date achieved compliance: 04/16/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/30/1992
Enf. disposition status: Not reported

POPE MACHINERY INC (Continued) **1000197429**

Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - m.g.l chapter 21c
Area of violation: Generators - General
Date violation determined: 04/16/1992
Date achieved compliance: 04/16/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/30/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 08/27/2004
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/16/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 04/16/1997
Evaluation lead agency: State

Evaluation date: 04/16/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 04/16/1997
Evaluation lead agency: State

FINDS:

Registry ID: 110003416973

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MA-EPICS - Massachussetts Environmental Protection Integrated Computer System

ENFORCEMENT:
Region: NERO

POPE MACHINERY INC (Continued) **1000197429**

DEP Region:	NERO
DEP Program:	3R
DEP Bureau:	BWSC
Program:	Not reported
Program Id:	3-0002940
High Or Low Level Enforcement:	LLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Not reported
Date Executed:	06/19/2007
ENF #:	NON-NE-07-3R017
Document Type:	NON
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	Not reported
Regional Comment:	Not reported
Final Payment Due Date:	Not reported
ACOP $:	Not reported
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	Not reported
Ownership:	Commercially Owned

Region:	NERO
DEP Region:	NERO
DEP Program:	3R
DEP Bureau:	BWSC
Program:	Not reported
Program Id:	3-0002940
High Or Low Level Enforcement:	LLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Not reported
Date Executed:	12/06/2007
ENF #:	NON-NE-07-3R052
Document Type:	NON
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	Not reported
Regional Comment:	Not reported
Final Payment Due Date:	Not reported
ACOP $:	Not reported
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	Not reported
Ownership:	Commercially Owned

Region:	NERO
DEP Region:	NERO

POPE MACHINERY INC (Continued) **1000197429**

DEP Program:	3R
DEP Bureau:	BWSC
Program:	Not reported
Program Id:	3-0002940
High Or Low Level Enforcement:	HLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Not reported
Date Executed:	06/17/2008
ENF #:	ACOP-NE-08-3R004
Document Type:	ACOP
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	Not reported
Regional Comment:	Not reported
Final Payment Due Date:	07/17/2008
ACOP $:	2000
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	6630
Ownership:	Commercially Owned

Region:	NERO
DEP Region:	NERO
DEP Program:	3R
DEP Bureau:	BWSC
Program:	BWSC
Program Id:	3-0002940
High Or Low Level Enforcement:	HLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Not reported
Date Executed:	08/08/2008
ENF #:	ACOP-NE-08-3R005
Document Type:	ACOP
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	Not reported
Regional Comment:	Not reported
Final Payment Due Date:	09/08/2008
ACOP $:	2000
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	Not reported
Ownership:	Commercially Owned

Region:	NERO
DEP Region:	NERO
DEP Program:	3R

POPE MACHINERY INC (Continued) **1000197429**

DEP Bureau:	BWSC
Program:	BWSC
Program Id:	3-0002940
High Or Low Level Enforcement:	HLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Not reported
Date Executed:	08/08/2008
ENF #:	ACOP-NE-08-3R005
Document Type:	ACOP
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	Not reported
Regional Comment:	Not reported
Final Payment Due Date:	09/08/2008
ACOP $:	2000
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	Not reported
Ownership:	Commercially Owned

ECHO:

Envid:	1000197429
Registry ID:	110003416973
FIPS Code:	25009
EPA Region:	01
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Y
Latitude:	42.76843
Longitude:	-71.09383
Map Icon:	RCRA-IC-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	CENTER OF A FACILITY OR STATION
Accuracy Meters:	30
Derived Tribes:	Not reported
Derived Huc:	01070006
Derived WBD:	Not reported
Derived STCT FPS:	25009
Derived Zip:	01832
Derived CD113:	03
Derived CB2010:	250092608002020
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	08/27/2004
Days Last Inspection:	4041
Informal Count:	0

POPE MACHINERY INC (Continued) **1000197429**

Date Last Informal Action:	06/30/1992
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	_____
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	MAD001008135
RCRA Permit Types:	Other
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported

POPE MACHINERY INC (Continued) **1000197429**

RCRA Days Last Evaluation:	4041
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0
RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110003416973
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	08/27/2004
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	06/30/1992
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

187
ENE
1/2-1
0.818 mi.
4320 ft.

FORMER TEDS FOR TIRES
57 GRANITE ST
HAVERHILL, MA 01830

SHWS **S100828902**
LUST **N/A**
BROWNFIELDS
RELEASE

Relative:
Higher

Actual:
171 ft.

SHWS:

Release Tracking Number/Current Status:	3-0027012 / RAONR
Release Town:	HAVERHILL
Notification Date:	06/20/2007
Category:	120 DY
Associated ID:	3-0000642
Current Status:	**Response Action Outcome Not Required**
Status Date:	07/28/2009
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Oil and Hazardous Material

FORMER TEDS FOR TIRES (Continued) **S100828902**

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	C11 THRU C22 AROMATIC HYDROCARBONS
Quantity:	1330 milligrams per kilogram
Chemical:	BENZENE
Quantity:	2.46 milligrams per kilogram
Chemical:	NAPHTHALENE
Quantity:	4.01 milligrams per kilogram
Chemical:	C19 THRU C36 ALIPHATIC HYDROCARBONS
Quantity:	4650 milligrams per kilogram
Chemical:	C5 THRU C8 ALIPHATIC HYDROCARBONS
Quantity:	185 milligrams per kilogram
Chemical:	METHYL TERT-BUTYL ETHER
Quantity:	.14 milligrams per kilogram
Chemical:	BENZO[A]PYRENE
Quantity:	2.3 milligrams per kilogram
Chemical:	C9 THRU C10 AROMATIC HYDROCARBONS
Quantity:	182 milligrams per kilogram
Chemical:	UNKNOWN HYDROCARBONS
Quantity:	1200 milligrams per kilogram

Actions:

Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via IRA Completion Statement
Action Date:	12/21/2009
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	TCEXT
Action Date:	2/12/2015
Response Action Outcome:	Not reported
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	6/20/2007
Response Action Outcome:	Not reported
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	6/20/2007
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	7/23/2007
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	7/25/2002
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Classification

FORMER TEDS FOR TIRES (Continued) **S100828902**

Action Date: 7/25/2002
Response Action Outcome: Not reported

Action Type: RAO Not Required
Action Status: Linked to a Tier Classified Site
Action Date: 7/28/2009
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 7/28/2009
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Legal Notice Published
Action Date: 8/8/2002
Response Action Outcome: Not reported

Release Tracking Number/Current Status: 3-0011439 / RAONR
Release Town: HAVERHILL
Notification Date: 08/09/1994
Category: 72 HR
Associated ID: 3-0000642
Current Status: **Response Action Outcome Not Required**
Status Date: 07/25/2002
Phase: Not reported
Response Action Outcome: -
Oil Or Haz Material: Oil
Source: UNKNOWN

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: PETROLEUM
Quantity: 7 inches

Actions:
Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 10/17/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via IRA Completion Statement
Action Date: 12/21/2009
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: TCEXT
Action Date: 2/12/2015
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action
Action Status: Notice of Non-Compliance Issued
Action Date: 6/21/2000

FORMER TEDS FOR TIRES (Continued) **S100828902**

Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 7/23/2007
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 7/25/2002
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 7/25/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 7/25/2002
Response Action Outcome: Not reported

Action Type: RAO Not Required
Action Status: Linked to a Tier Classified Site
Action Date: 7/25/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 7/28/2009
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 8/19/1994
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Legal Notice Published
Action Date: 8/8/2002
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 8/9/1994
Response Action Outcome: Not reported

Release Tracking Number/Current Status: 3-0021180 / RAONR
Release Town: HAVERHILL
Notification Date: 10/13/2001
Category: TWO HR
Associated ID: 3-0000642
Current Status: **Response Action Outcome Not Required**
Status Date: 10/17/2002
Phase: Not reported
Response Action Outcome: -

FORMER TEDS FOR TIRES (Continued) **S100828902**

Oil Or Haz Material: Oil
Location Type: COMMERCIAL
Source: DRUMS

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: WASTE OIL
Quantity: Not reported

Actions:
Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 10/13/2001
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 10/17/2002
Response Action Outcome: Not reported

Action Type: RAO Not Required
Action Status: Linked to a Tier Classified Site
Action Date: 10/17/2002
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: FLDISS
Action Date: 10/18/2001
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FLDRAN
Action Date: 10/18/2001
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 10/22/2001
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 10/26/2001
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 10/30/2001
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 11/5/2001
Response Action Outcome: Not reported

FORMER TEDS FOR TIRES (Continued) **S100828902**

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via IRA Completion Statement
Action Date: 12/21/2009
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: TCEXT
Action Date: 2/12/2015
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 6/11/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 7/23/2007
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 7/24/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 7/25/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 7/25/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 7/28/2009
Response Action Outcome: Not reported

Action Type: RLFA
Action Status: FOLOFF
Action Date: 7/3/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Legal Notice Published
Action Date: 8/8/2002
Response Action Outcome: Not reported

Action Type: Immediate Response Action - DEP Lead
Action Status: Completion Statement Received
Action Date: 9/18/2002
Response Action Outcome: Not reported

Release Tracking Number/Current Status: 3-0000642 / TMPS

FORMER TEDS FOR TIRES (Continued) **S100828902**

Release Town:	HAVERHILL
Notification Date:	10/15/1988
Category:	NONE
Associated ID:	3-0000642
Current Status:	**TMPS**
Status Date:	06/20/2014
Phase:	PHASE IV
Response Action Outcome:	-
Oil Or Haz Material:	Not reported
Location Type:	COMMERCIAL
Source:	UNKNOWN
Source:	UST
Source:	TANK

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	UNKNOWN
Quantity:	Not reported

Actions:

Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	10/13/2010
Response Action Outcome:	Not reported
Action Type:	Release Disposition
Action Status:	Valid Transition Site
Action Date:	10/15/1988
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Completion Statement Received
Action Date:	11/1/2011
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Modified Revised or Updated Plan Received
Action Date:	11/12/2009
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Written Plan Received
Action Date:	11/17/2010
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via IRA Completion Statement
Action Date:	12/21/2009
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	TCEXT
Action Date:	2/12/2015
Response Action Outcome:	Not reported

FORMER TEDS FOR TIRES (Continued) **S100828902**

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 2/12/2015
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 2/18/2012
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 2/5/2010
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 3/4/2011
Response Action Outcome: Not reported

Action Type: Phase 3
Action Status: Completion Statement Received
Action Date: 4/1/2013
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 4/22/2011
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 5/1/2007
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 6/10/2010
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO
Action Status: TSFRCD
Action Date: 6/20/2014
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action
Action Status: Notice of Non-Compliance Issued
Action Date: 6/21/2000
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Modified Revised or Updated Plan Received
Action Date: 7/14/2010
Response Action Outcome: Not reported

Action Type: Phase 3
Action Status: Notice of Delay in Meeting RA Deadline Received

FORMER TEDS FOR TIRES (Continued) **S100828902**

Action Date: 7/20/2004
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Notice of Delay in Meeting RA Deadline Received
Action Date: 7/20/2004
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 7/23/2007
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 7/25/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 7/25/2002
Response Action Outcome: Not reported

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 7/25/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 7/28/2009
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 8/13/2010
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Modified Revised or Updated Plan Received
Action Date: 8/5/2010
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 8/6/2011
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Legal Notice Published
Action Date: 8/8/2002
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 9/15/2009
Response Action Outcome: Not reported

FORMER TEDS FOR TIRES (Continued) **S100828902**

Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	9/18/2012
Response Action Outcome:	Not reported

Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	9/26/2007
Response Action Outcome:	Not reported

LUST:

Facility:

Release Tracking Number/Current Status:	3-0028825 / RAONR
Status Date:	12/21/2009
Source Type:	UST
Release Town:	HAVERHILL
Notification Date:	10/21/2009
Category:	72 HR
Associated ID:	3-0000642
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Oil

Source: UST

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	FUEL OIL
Quantity:	400 parts per million

Actions:

Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	10/21/2009
Response Action Outcome:	Not reported

Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	10/21/2009
Response Action Outcome:	Not reported

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	10/21/2009
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via IRA Completion Statement
Action Date:	12/21/2009
Response Action Outcome:	Not reported

Action Type: RAO Not Required

FORMER TEDS FOR TIRES (Continued) **S100828902**

Action Status:	Linked to a Tier Classified Site
Action Date:	12/21/2009
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	12/21/2009
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	TCEXT
Action Date:	2/12/2015
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	7/23/2007
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	7/25/2002
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	7/25/2002
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via Tier Classification Submittal
Action Date:	7/28/2009
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Legal Notice Published
Action Date:	8/8/2002
Response Action Outcome:	Not reported

Facility:

Release Tracking Number/Current Status:	3-0000642 / TMPS
Status Date:	06/20/2014
Source Type:	UST
Release Town:	HAVERHILL
Notification Date:	10/15/1988
Category:	NONE
Associated ID:	3-0000642
Phase:	PHASE IV
Response Action Outcome:	-
Oil Or Haz Material:	Not reported
Location Type:	COMMERCIAL
Source:	UNKNOWN
Source:	UST
Source:	TANK

FORMER TEDS FOR TIRES (Continued) **S100828902**

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	UNKNOWN
Quantity:	Not reported

Actions:

Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	10/13/2010
Response Action Outcome:	Not reported
Action Type:	Release Disposition
Action Status:	Valid Transition Site
Action Date:	10/15/1988
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Completion Statement Received
Action Date:	11/1/2011
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Modified Revised or Updated Plan Received
Action Date:	11/12/2009
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Written Plan Received
Action Date:	11/17/2010
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via IRA Completion Statement
Action Date:	12/21/2009
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	TCEXT
Action Date:	2/12/2015
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Completion Statement Received
Action Date:	2/12/2015
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	2/18/2012
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	2/5/2010

FORMER TEDS FOR TIRES (Continued) **S100828902**

Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 3/4/2011
Response Action Outcome: Not reported

Action Type: Phase 3
Action Status: Completion Statement Received
Action Date: 4/1/2013
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 4/22/2011
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 5/1/2007
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 6/10/2010
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO
Action Status: TSFRCD
Action Date: 6/20/2014
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action
Action Status: Notice of Non-Compliance Issued
Action Date: 6/21/2000
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Modified Revised or Updated Plan Received
Action Date: 7/14/2010
Response Action Outcome: Not reported

Action Type: Phase 3
Action Status: Notice of Delay in Meeting RA Deadline Received
Action Date: 7/20/2004
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Notice of Delay in Meeting RA Deadline Received
Action Date: 7/20/2004
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 7/23/2007
Response Action Outcome: Not reported

FORMER TEDS FOR TIRES (Continued) **S100828902**

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 7/25/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 7/25/2002
Response Action Outcome: Not reported

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 7/25/2002
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal
Action Date: 7/28/2009
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 8/13/2010
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Modified Revised or Updated Plan Received
Action Date: 8/5/2010
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 8/6/2011
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Legal Notice Published
Action Date: 8/8/2002
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 9/15/2009
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 9/18/2012
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 9/26/2007
Response Action Outcome: Not reported

FORMER TEDS FOR TIRES (Continued) **S100828902**

Facility:

Release Tracking Number/Current Status:	3-0019248 / RAONR
Status Date:	07/25/2002
Source Type:	UST
Release Town:	HAVERHILL
Notification Date:	02/07/2000
Category:	72 HR
Associated ID:	3-0000642
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Oil
Location Type:	COMMERCIAL
Source:	UST

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	GASOLINE
Quantity:	1000 parts per million

Actions:

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	10/17/2002
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Imminent Hazard Evaluation Received
Action Date:	10/21/2009
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	10/21/2009
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	11/26/2003
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	11/29/2002
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via IRA Completion Statement
Action Date:	12/21/2009
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	TCEXT
Action Date:	2/12/2015

FORMER TEDS FOR TIRES (Continued) **S100828902**

Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 2/16/2000
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 2/7/2000
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: IRA Assessment Only
Action Date: 2/7/2000
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 3/15/2000
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 6/15/2004
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 6/2/2003
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action
Action Status: Notice of Non-Compliance Issued
Action Date: 6/21/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 7/23/2007
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 7/25/2002
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 7/25/2002
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 7/25/2002
Response Action Outcome: Not reported

FORMER TEDS FOR TIRES (Continued) **S100828902**

Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	7/25/2002
Response Action Outcome:	Not reported

Action Type:	RAO Not Required
Action Status:	Linked to a Tier Classified Site
Action Date:	7/25/2002
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via Tier Classification Submittal
Action Date:	7/28/2009
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Status:	Legal Notice Published
Action Date:	8/8/2002
Response Action Outcome:	Not reported

BROWNFIELDS 2:

RTN:	3-0000642
RAO Class:	C2
Other RTNs:	3-0019248, 3-0028825, 3-0021180, 3-0011439
Current Owner:	City of Haverhill
MCP Status:	RAO
AUL:	No
COCs:	Oil, Hazardeous Materials
Former Use:	Commercial
Current Use:	Not reported
Total Acreage:	0.31

Release:

Release Tracking Number/Current Status:	3-0000642 / TMPS
Primary ID:	3-0000642
Official City:	HAVERHILL
Notification:	10/15/1988
Category:	NONE
Status Date:	06/20/2014
Phase:	PHASE IV
Response Action Outcome:	-
Oil / Haz Material Type:	Not reported

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0011439 / RAONR
Primary ID:	3-0000642
Official City:	HAVERHILL
Notification:	08/09/1994
Category:	72 HR
Status Date:	07/25/2002
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Oil

FORMER TEDS FOR TIRES (Continued) **S100828902**

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0019248 / RAONR
Primary ID:	3-0000642
Official City:	HAVERHILL
Notification:	02/07/2000
Category:	72 HR
Status Date:	07/25/2002
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0021180 / RAONR
Primary ID:	3-0000642
Official City:	HAVERHILL
Notification:	10/13/2001
Category:	TWO HR
Status Date:	10/17/2002
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0027012 / RAONR
Primary ID:	3-0000642
Official City:	HAVERHILL
Notification:	06/20/2007
Category:	120 DY
Status Date:	07/28/2009
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Oil and Hazardous Material

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0028825 / RAONR
Primary ID:	3-0000642
Official City:	HAVERHILL
Notification:	10/21/2009
Category:	72 HR
Status Date:	12/21/2009
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

188
NNE
1/2-1
0.831 mi.
4390 ft.

Relative:
Higher

Actual:
110 ft.

NO LOCATION AID
7-11 KENOZA ST
HAVERHILL, MA 01830

SHWS
LUST
INST CONTROL
RELEASE
SPILLS
ENF
HW GEN

S101019278
N/A

SHWS:

Release Tracking Number/Current Status:	3-0003263 / RAO
Release Town:	HAVERHILL
Notification Date:	10/15/1990
Category:	NONE
Associated ID:	3-0003263
Current Status:	**Response Action Outcome**
Status Date:	12/02/2013
Phase:	PHASE V
Response Action Outcome:	A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Oil Or Haz Material:	Oil
Location Type:	GASSTATION
Source:	UST
Source:	PIPE

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	PETROLEUM
Quantity:	Not reported

Actions:

Action Type:	Phase 5
Action Status:	Inspection and Monitoring Report Received
Action Date:	1/10/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received
Action Date:	1/10/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	Phase 5
Action Status:	Inspection and Monitoring Report Received
Action Date:	1/29/2003
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received
Action Date:	1/5/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

NO LOCATION AID (Continued) **S101019278**

been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 1/5/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 1/6/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 1/8/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 1/8/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 1/9/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 1/9/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Status: DEDNOT
Action Date: 10/1/2014
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Disposition
Action Status: Valid Transition Site
Action Date: 10/15/1990
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

NO LOCATION AID (Continued) **S101019278**

Action Type: Response Action Outcome - RAO
Action Status: Revised Statement or Transmittal Received
Action Date: 10/29/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 10/29/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 4
Action Status: Written Plan Received
Action Date: 10/30/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 10/30/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 10/30/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 10/30/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 10/31/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 10/31/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO

NO LOCATION AID (Continued) **S101019278**

Action Status: RMRINT
Action Date: 11/12/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 11/12/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 11/7/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Periodic Review Opinion Evaluating Temp Solution
Action Date: 11/7/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 12/13/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 12/2/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Status: Transmittal, Notice, or Notification Received
Action Date: 12/2/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 5
Action Status: Inspection and Monitoring Report Received
Action Date: 12/23/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Status: Completion Statement Received

NO LOCATION AID (Continued) **S101019278**

Action Date: 12/28/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 12/30/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Status: Legal Notice Published
Action Date: 12/31/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 2/17/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 2/17/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS
Action Status: WAVREC
Action Date: 3/23/1992
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TAG
Action Status: GRNTST
Action Date: 4/1/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 4/10/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 4/21/1998

NO LOCATION AID (Continued) **S101019278**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 4/24/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 4/24/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 4/25/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 4/25/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 4/25/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 4/25/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 4/25/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 4/26/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

NO LOCATION AID (Continued) **S101019278**

reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 4/29/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 4/29/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 4/29/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 4/9/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 5/1/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Status: Level II - Audit Inspection
Action Date: 5/19/2014
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 5/21/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 6/12/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

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been implemented.

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via IRA Completion Statement
Action Date: 6/12/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 6/12/2014
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Status: Level I - Technical Screen Audit
Action Date: 6/12/2014
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: An activity type that is related to an Audit
Action Status: NAFNVD
Action Date: 6/13/2014
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 6/20/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS
Action Status: WAVSIG
Action Date: 6/25/1992
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 6/29/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TAG
Action Status: GRNTEN
Action Date: 6/30/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

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Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 6/30/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 7/10/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 7/10/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 7/11/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 7/11/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS
Action Status: WAVACC
Action Date: 7/13/1992
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 7/13/1992
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 7/13/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO

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Action Status: Level I - Technical Screen Audit
Action Date: 7/17/2014
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 5
Action Status: Inspection and Monitoring Report Received
Action Date: 7/18/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 5
Action Status: Inspection and Monitoring Report Received
Action Date: 7/2/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 7/2/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 7/2/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 3
Action Status: Completion Statement Received
Action Date: 7/22/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 7/23/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 7/23/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received

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Action Date: 7/6/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 7/6/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 5
Action Status: Inspection and Monitoring Report Received
Action Date: 7/8/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 8/18/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Status: Modified Revised or Updated Plan Received
Action Date: 8/4/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Transfer
Action Date: 9/18/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

LUST:

Facility:
Release Tracking Number/Current Status: 3-0028443 / RAONR
Status Date: 06/12/2009
Source Type: UST
Release Town: HAVERHILL
Notification Date: 04/15/2009
Category: 72 HR
Associated ID: 3-0003263
Phase: Not reported
Response Action Outcome: -
Oil Or Haz Material: Oil

Location Type: COMMERCIAL
Source: UST

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Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	GASOLINE
Quantity:	247 parts per million
Chemical:	GASOLINE
Quantity:	312 parts per million

Actions:

Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	10/29/2010
Response Action Outcome:	Not reported
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	4/13/2009
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	IRA Assessment Only
Action Date:	4/15/2009
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	4/21/1998
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	4/25/1997
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	4/25/2000
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	4/25/2011
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	4/26/1999
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Extension
Action Date:	4/29/2013
Response Action Outcome:	Not reported
Action Type:	Tier Classification

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Action Status: Tier 2 Extension
Action Date: 5/1/2012
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 6/12/2009
Response Action Outcome: Not reported

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 6/12/2009
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via IRA Completion Statement
Action Date: 6/12/2009
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 6/12/2009
Response Action Outcome: Not reported

Action Type: RAO Not Required
Action Status: Linked to a Tier Classified Site
Action Date: 6/12/2009
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 6/5/2009
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action
Action Status: Interim Deadline Letter Issued
Action Date: 6/5/2009
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 7/13/1992
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 7/13/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Transfer
Action Date: 9/18/2000
Response Action Outcome: Not reported

Facility:
Release Tracking Number/Current Status: 3-0003263 / RAO

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Status Date:	12/02/2013
Source Type:	UST
Release Town:	HAVERHILL
Notification Date:	10/15/1990
Category:	NONE
Associated ID:	3-0003263
Phase:	PHASE V
Response Action Outcome:	A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Oil Or Haz Material:	Oil
Location Type:	GASSTATION
Source:	UST
Source:	PIPE

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	PETROLEUM
Quantity:	Not reported

Actions:

Action Type:	Phase 5
Action Status:	Inspection and Monitoring Report Received
Action Date:	1/10/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received
Action Date:	1/10/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	Phase 5
Action Status:	Inspection and Monitoring Report Received
Action Date:	1/29/2003
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received
Action Date:	1/5/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	Response Action Outcome - RAO
Action Status:	RMRINT
Action Date:	1/5/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been

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reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 1/6/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 1/8/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 1/8/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 1/9/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 1/9/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Status: DEDNOT
Action Date: 10/1/2014
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Disposition
Action Status: Valid Transition Site
Action Date: 10/15/1990
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Revised Statement or Transmittal Received
Action Date: 10/29/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

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been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 10/29/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 4
Action Status: Written Plan Received
Action Date: 10/30/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 10/30/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 10/30/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 10/30/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 10/31/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 10/31/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 11/12/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

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Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 11/12/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 11/7/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Periodic Review Opinion Evaluating Temp Solution
Action Date: 11/7/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 12/13/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 12/2/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Status: Transmittal, Notice, or Notification Received
Action Date: 12/2/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 5
Action Status: Inspection and Monitoring Report Received
Action Date: 12/23/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 12/28/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 2

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Action Status: Completion Statement Received
Action Date: 12/30/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Status: Legal Notice Published
Action Date: 12/31/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 2/17/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 2/17/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS
Action Status: WAVREC
Action Date: 3/23/1992
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TAG
Action Status: GRNTST
Action Date: 4/1/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Status: Level I - Technical Screen Audit
Action Date: 4/10/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 4/21/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received

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Action Date: 4/24/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 4/24/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 4/25/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 4/25/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 4/25/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 4/25/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 4/25/2011
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 4/26/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 4/29/2013

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Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 4/29/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 4/29/2013
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 4/9/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Extension
Action Date: 5/1/2012
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Status: Level II - Audit Inspection
Action Date: 5/19/2014
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 5/21/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 6/12/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via IRA Completion Statement
Action Date: 6/12/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

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reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 6/12/2014
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Status: Level I - Technical Screen Audit
Action Date: 6/12/2014
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: An activity type that is related to an Audit
Action Status: NAFNVD
Action Date: 6/13/2014
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 6/20/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS
Action Status: WAVSIG
Action Date: 6/25/1992
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Status: Status or Interim Report Received
Action Date: 6/29/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TAG
Action Status: GRNTEN
Action Date: 6/30/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 6/30/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

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been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 7/10/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 7/10/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 7/11/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 7/11/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: TREGS
Action Status: WAVACC
Action Date: 7/13/1992
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 7/13/1992
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 7/13/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 7/17/2014
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

NO LOCATION AID (Continued) **S101019278**

Action Type: Phase 5
Action Status: Inspection and Monitoring Report Received
Action Date: 7/18/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 5
Action Status: Inspection and Monitoring Report Received
Action Date: 7/2/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 7/2/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 7/2/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 3
Action Status: Completion Statement Received
Action Date: 7/22/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 7/23/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RMRINT
Action Date: 7/23/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Inspection and Monitoring Report Received
Action Date: 7/6/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO

NO LOCATION AID (Continued) **S101019278**

Action Status: RMRINT
Action Date: 7/6/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 5
Action Status: Inspection and Monitoring Report Received
Action Date: 7/8/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 8/18/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Status: Modified Revised or Updated Plan Received
Action Date: 8/4/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Transfer
Action Date: 9/18/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Facility:
Release Tracking Number/Current Status: 3-0014199 / RAO
Status Date: 02/03/1997
Source Type: UST
Release Town: HAVERHILL
Notification Date: 09/05/1996
Category: TWO HR
Associated ID: Not reported
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material: Oil

Location Type: COMMERCIAL
Source: UST

Click here to access the MA DEP site for this facility:

Chemicals:

NO LOCATION AID (Continued) **S101019278**

Chemical: FUEL OIL
Quantity: 50 gallons
Chemical: PETROLEUM
Quantity: 10 gallons

Actions:

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 1/13/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Fee Received - FMCRA Use Only
Action Date: 1/29/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 11/6/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 2/3/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 9/20/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 9/5/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 9/5/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 9/5/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

INST CONTROL:
Release Tracking Number: 3-0003263

NO LOCATION AID (Continued) **S101019278**

Action Type: AUL
Action Stat: DEDNOT
Action Date: 10/01/2014
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release Tracking Number: 3-0003263
Action Type: AUL
Action Stat: LEGNOT
Action Date: 12/31/2013
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release Tracking Number: 3-0003263
Action Type: AUL
Action Stat: RECPT
Action Date: 12/02/2013
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release Tracking Number: 3-0003263
Action Type: AUL
Action Stat: SNAUDI
Action Date: 05/19/2014
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release Tracking Number: 3-0003263
Action Type: AUL
Action Stat: TSAUD
Action Date: 06/12/2014
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release:
Release Tracking Number/Current Status: 3-0003263 / RAO
Primary ID: 3-0003263
Official City: HAVERHILL
Notification: 10/15/1990
Category: NONE
Status Date: 12/02/2013
Phase: PHASE V
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status: 3-0014199 / RAO
Primary ID: Not reported

NO LOCATION AID (Continued) **S101019278**

Official City:	HAVERHILL
Notification:	09/05/1996
Category:	TWO HR
Status Date:	02/03/1997
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0028443 / RAONR
Primary ID:	3-0003263
Official City:	HAVERHILL
Notification:	04/15/2009
Category:	72 HR
Status Date:	06/12/2009
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

MA Spills:

Facility ID:	3-3263	Spill ID:	N88-1344
Staff Lead:	LUTHER, W	Date Entered:	19890113
Last Entered:	19931103	First Response:	19880830
Spill Date:	Not reported	Spill Time:	Not reported
Report Date:	19880830	Report Time:	11:30AM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	VIRGIN	Contam Soil:	Not reported
Env Impact:	SOIL	Other Impact:	Not reported
Material:	GASOLINE	Other Material:	Not reported
Qty Reported:	NONE	Qty Actual:	NONE
Qty Reported:	----------	Qty Actual:	----------
CAS No:	Not reported	PCB Lev (ppm):	NONE
Source:	U.S.T.	Other Source:	Not reported
Incident:	TANK REMOVAL	Other Incdnt:	Not reported
Cleanup Type:	Not reported	Contractor:	NOT USED
Referral:	SA	LUST Elig:	NO
Report Prep:	Not reported	Category:	Not reported
Notifier:	Not reported		
Notif Tel:	Not reported		
Days/Close:	0		

ENFORCEMENT:

Region:	NERO
DEP Region:	NERO
DEP Program:	3C
DEP Bureau:	BWSC
Program:	BWSC
Program Id:	3-0028443
High Or Low Level Enforcement:	LLE
FMF #:	Not reported

NO LOCATION AID (Continued) **S101019278**

Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Not reported
Date Executed:	06/05/2009
ENF #:	Not reported
Document Type:	IDL
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	Not reported
Regional Comment:	Not reported
Final Payment Due Date:	Not reported
ACOP $:	Not reported
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	Not reported
Ownership:	Commercially Owned

HW GEN:

EPA Id:	MAD982197592
RCRA Generator Status:	VSQG
State Generator Status:	Not reported

189
East
1/2-1
0.873 mi.
4609 ft.

NO LOCATION AID **SHWS** **S105522027**
180 WATER ST **RELEASE** **N/A**
HAVERHILL, MA

Relative:
Higher

Actual:
28 ft.

SHWS:

Release Tracking Number/Current Status:	3-0021786 / RAO
Release Town:	HAVERHILL
Notification Date:	05/28/2002
Category:	TWO HR
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	07/25/2002
Phase:	Not reported
Response Action Outcome:	A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil Or Haz Material:	Oil
Location Type:	ROADWAY
Source:	TRANSFORM

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	MINERAL OIL
Quantity:	15 gallons
Chemical:	TRANSFORMER OIL
Quantity:	20 gallons

Actions:

Action Type:	Release Disposition

NO LOCATION AID (Continued) **S105522027**

Action Status: Reportable Release under MGL 21E
Action Date: 5/28/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 5/28/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 6/14/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 7/25/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 7/25/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Release Tracking Number/Current Status: 3-0021786 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 05/28/2002
Category: TWO HR
Status Date: 07/25/2002
Phase: Not reported
Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

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190 East 1/2-1 0.886 mi. 4680 ft. **21 MOUNT VERNON ST HAVERHILL, MA 01830** **SHWS LUST RELEASE LEAD** **S113412883 N/A**

Relative: Higher

Actual: 136 ft.

SHWS:
Release Tracking Number/Current Status: 3-0033102 / UNCLSS
Release Town: HAVERHILL
Notification Date: 08/21/2015
Category: 72 HR
Associated ID: Not reported

(Continued) **S113412883**

Current Status:	**Unclassified**
Status Date:	08/21/2015
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Oil
Location Type:	MUNICIPAL
Source:	TANK
Source:	UST

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	FUEL OIL #2
Quantity:	200 parts per million

Actions:

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	8/21/2015
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	8/21/2015
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	9/11/2015
Response Action Outcome:	Not reported

LUST:

Facility:

Release Tracking Number/Current Status:	3-0033102 / UNCLSS
Status Date:	08/21/2015
Source Type:	UST
Release Town:	HAVERHILL
Notification Date:	08/21/2015
Category:	72 HR
Associated ID:	Not reported
Phase:	Not reported
Response Action Outcome:	-
Oil Or Haz Material:	Oil
Location Type:	MUNICIPAL
Source:	TANK
Source:	UST

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	FUEL OIL #2

(Continued) **S113412883**

Quantity: 200 parts per million

Actions:

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 8/21/2015
Response Action Outcome: Not reported

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 8/21/2015
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 9/11/2015
Response Action Outcome: Not reported

Release:

Release Tracking Number/Current Status: 3-0033102 / UNCLSS
Primary ID: Not reported
Official City: HAVERHILL
Notification: 08/21/2015
Category: 72 HR
Status Date: 08/21/2015
Phase: Not reported
Response Action Outcome: -
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

LEAD:

Community: Haverhill
Unit: 25
Inspector Name: Mel Blackman
Inspector License Number: 1377
Activity Type: INSPECT
Activity Date: 03/26/2012
Start Work Date: Not reported
Activity Descriptions: Determination
Outcomes: No Hazards Found

Community: Haverhill
Unit: 25
Inspector Name: Mel Blackman
Inspector License Number: 1377
Activity Type: INSPECT
Activity Date: 03/28/2012
Start Work Date: Not reported
Activity Descriptions: Comprehensive Initial Inspection
Outcomes: No Hazards Found

Community: Haverhill
Unit: 25
Inspector Name: Mel Blackman

(Continued) **S113412883**

Inspector License Number:	1377
Activity Type:	COMPLIANCE
Activity Date:	03/28/2012
Start Work Date:	Not reported
Activity Descriptions:	Letter of Full Initial Insp Comp
Outcomes:	Issued

Community:	Haverhill
Unit:	26
Inspector Name:	Mel Blackman
Inspector License Number:	1377
Activity Type:	INSPECT
Activity Date:	03/26/2012
Start Work Date:	Not reported
Activity Descriptions:	Determination
Outcomes:	No Hazards Found

Community:	Haverhill
Unit:	26
Inspector Name:	Mel Blackman
Inspector License Number:	1377
Activity Type:	INSPECT
Activity Date:	03/28/2012
Start Work Date:	Not reported
Activity Descriptions:	Comprehensive Initial Inspection
Outcomes:	No Hazards Found

Community:	Haverhill
Unit:	26
Inspector Name:	Mel Blackman
Inspector License Number:	1377
Activity Type:	COMPLIANCE
Activity Date:	03/28/2012
Start Work Date:	Not reported
Activity Descriptions:	Letter of Full Initial Insp Comp
Outcomes:	Issued

Community:	Haverhill
Unit:	27
Inspector Name:	Mel Blackman
Inspector License Number:	1377
Activity Type:	INSPECT
Activity Date:	03/26/2012
Start Work Date:	Not reported
Activity Descriptions:	Determination
Outcomes:	No Hazards Found

Community:	Haverhill
Unit:	27
Inspector Name:	Mel Blackman
Inspector License Number:	1377
Activity Type:	INSPECT
Activity Date:	03/28/2012
Start Work Date:	Not reported
Activity Descriptions:	Comprehensive Initial Inspection
Outcomes:	No Hazards Found

(Continued) **S113412883**

Community:	Haverhill
Unit:	27
Inspector Name:	Mel Blackman
Inspector License Number:	1377
Activity Type:	COMPLIANCE
Activity Date:	03/28/2012
Start Work Date:	Not reported
Activity Descriptions:	Letter of Full Initial Insp Comp
Outcomes:	Issued

Community:	Haverhill
Unit:	28
Inspector Name:	Mel Blackman
Inspector License Number:	1377
Activity Type:	INSPECT
Activity Date:	03/26/2012
Start Work Date:	Not reported
Activity Descriptions:	Determination
Outcomes:	No Hazards Found

Click this hyperlink while viewing on your computer to access
8 additional MA LEAD: record(s) in the EDR Site Report.

191
SE
1/2-1
0.912 mi.
4817 ft.

NO LOCATION AID
10 CHURCH ST
EASTON, MA 02334

SHWS **S101037168**
SPILLS **N/A**
RELEASE

Relative:
Higher

Actual:
81 ft.

SHWS:

Release Tracking Number/Current Status:	4-0017274 / RAO
Release Town:	EASTON
Notification Date:	08/06/2002
Category:	120 DY
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	08/06/2002
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Oil

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	FUEL OIL
Quantity:	5400 milligrams per kilogram

Actions:

Action Type:	Response Action Outcome - RAO
Action Status:	Level I - Technical Screen Audit
Action Date:	12/30/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E

NO LOCATION AID (Continued) **S101037168**

Action Date:	8/6/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	8/6/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	8/6/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

MA Spills:

Facility ID:	0000	Spill ID:	N91-1738
Staff Lead:	ARMSTRONG, V	Date Entered:	19920727
Last Entered:	19930910	First Response:	19911211
Spill Date:	19911211	Spill Time:	Not reported
Report Date:	19911211	Report Time:	11:10AM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	VIRGIN	Contam Soil:	Not reported
Env Impact:	SOIL	Other Impact:	Not reported
Material:	#2 FUEL OIL	Other Material:	Not reported
Qty Reported:	UNKNOWN	Qty Actual:	UNKNOWN
Qty Reported:	----------	Qty Actual:	----------
CAS No:	Not reported	PCB Lev (ppm):	NONE
Source:	U.S.T.	Other Source:	Not reported
Incident:	TANK REMOVAL	Other Incdnt:	Not reported
Cleanup Type:	---	Contractor:	NOT USED
Referral:	NO	LUST Elig:	NO
Report Prep:	Not reported	Category:	2
Notifier:	JOHN LANDERS/FD		
Notif Tel:	Not reported		
Days/Close:	215		

Facility ID:	0000		Spill ID:	S90-0667
Staff Lead:	PACKARD, R		Date Entered:	Not reported
Last Entered:	19900912		First Response:	19900911
Spill Date:	Not reported		Spill Time:	Not reported
Report Date:	19900911		Report Time:	11:10AM
Case Closed:	YES		Mat Type:	NEITHER
Virgin Waste:	------		Contam Soil:	Not reported
Env Impact:	Not reported		Other Impact:	Not reported
Material:	OTHER MATERIAL	-->	Other Material:	PLASTIC DUST
Qty Reported:	----------		Qty Actual:	----------
Qty Reported:	----------		Qty Actual:	----------
CAS No:	Not reported		PCB Lev (ppm):	----------
Source:	OTHER SOURCE >		Other Source:	IMPROPER
Incident:	OTHER RELEASE >		Other Incdnt:	STORAGE
Cleanup Type:	---		Contractor:	NOT USED
Referral:	NO		LUST Elig:	NO
Report Prep:	Not reported		Category:	Not reported
Notifier:	CHF BROWN/FD			

NO LOCATION AID (Continued) **S101037168**

Notif Tel: Not reported
Days/Close: 1

Release:
Release Tracking Number/Current Status: 4-0017274 / RAO
Primary ID: Not reported
Official City: EASTON
Notification: 08/06/2002
Category: 120 DY
Status Date: 08/06/2002
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

---

192 SSW 1/2-1 0.926 mi. 4888 ft.

NO LOCATION AID
414 RIVER ST
HAVERHILL, MA 01830

SHWS **S104516963**
LUST **N/A**
INST CONTROL
RELEASE
ENF

Relative: Higher

Actual: 40 ft.

SHWS:
Release Tracking Number/Current Status: 3-0014064 / DPS
Release Town: HAVERHILL
Notification Date: 07/29/1996
Category: 120 DY
Associated ID: 3-0014064
Current Status: **Downgradient Property Status**
Status Date: 12/30/1997
Phase: PHASE II
Response Action Outcome: -
Oil Or Haz Material: Hazardous Material

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: ETHENE, 1,1-DICHLORO-
Quantity: 43 micrograms per liter
Chemical: ETHENE, TRICHLORO-
Quantity: 2730 micrograms per liter

Actions:
Action Type: Tier Classification
Action Status: RTN Linked to TCLASS Via IRA Completion Statement
Action Date: 11/19/1997
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Status: Transmittal, Notice, or Notification Received
Action Date: 12/30/1997
Response Action Outcome: Not reported

Action Type: Downgradient Property Status

NO LOCATION AID (Continued) **S104516963**

Action Status: Level I - Technical Screen Audit
Action Date: 3/29/2013
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 7/29/1996
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 7/29/1996
Response Action Outcome: Not reported

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 8/4/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 8/4/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 8/4/1997
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 8/8/1996
Response Action Outcome: Not reported

LUST:

Facility:
Release Tracking Number/Current Status: 3-0014848 / RAO
Status Date: 10/19/1998
Source Type: UST
Release Town: HAVERHILL
Notification Date: 02/21/1997
Category: 72 HR
Associated ID: 3-0014064
Phase: PHASE III
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Oil Or Haz Material: Oil and Hazardous Material

Location Type: COMMERCIAL
Source: UST

Click here to access the MA DEP site for this facility:

NO LOCATION AID (Continued) **S104516963**

Chemicals:

Chemical:	STODDARD SOLVENT
Quantity:	451 parts per million
Chemical:	PID
Quantity:	Not reported

Actions:

Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	1/8/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	Activity and Use Limitation
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	10/19/1998
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	10/19/1998
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	10/19/1998
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	RAO Not Required
Action Status:	Linked to a Tier Classified Site
Action Date:	11/19/1997
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via IRA Completion Statement
Action Date:	11/19/1997
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	11/19/1997
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	Immediate Response Action

NO LOCATION AID (Continued) **S104516963**

Action Status: IRA Assessment Only
Action Date: 2/21/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 2/21/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 3/13/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Status: Amendment Received or Issued
Action Date: 4/10/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: An activity type that is related to an Audit
Action Status: Audit Follow-up Completion Statement Received
Action Date: 4/10/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 4/15/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Status: FLDRUN
Action Date: 4/26/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Status: Level II - Audit Inspection
Action Date: 4/26/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF
Action Status: Reportable Release under MGL 21E

NO LOCATION AID (Continued) **S104516963**

Action Date: 4/28/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 4/28/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Status: FLDRUN
Action Date: 5/14/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: An activity type that is related to an Audit
Action Status: NAFNVD
Action Date: 5/22/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Status: Written Plan Received
Action Date: 5/24/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Compliance and Enforcement Action
Action Status: Notice of Enforcement Conference
Action Date: 6/25/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: An activity type that is related to an Audit
Action Status: NAFNVD
Action Date: 7/18/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 7/18/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: An activity type that is related to an Audit
Action Status: NOA
Action Date: 7/19/1999

NO LOCATION AID (Continued) **S104516963**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 7/28/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Status: FLDRAN
Action Date: 7/28/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 7/9/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Compliance and Enforcement Action
Action Status: ACOP
Action Date: 8/11/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Abatement Measure
Action Status: Completion Statement Received
Action Date: 8/20/2010
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 8/4/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 8/4/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 8/4/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

NO LOCATION AID (Continued) **S104516963**

reduced to background and an Activity and use Limitation (AUL) has been implemented.

Facility:

Release Tracking Number/Current Status:	3-0017885 / RAO
Status Date:	05/26/1999
Source Type:	UST
Release Town:	HAVERHILL
Notification Date:	01/22/1999
Category:	72 HR
Associated ID:	Not reported
Phase:	Not reported
Response Action Outcome:	A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Oil Or Haz Material:	Hazardous Material
Location Type:	COMMERCIAL
Source:	UST

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	MINERAL SPIRITS
Quantity:	Not reported
Chemical:	MINERAL SPIRITS
Quantity:	1000 parts per million

Actions:

Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	1/22/1999
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	1/22/1999
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	Response Action Outcome - RAO
Action Status:	Level I - Technical Screen Audit
Action Date:	2/19/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	An activity type that is related to an Audit
Action Status:	Audit Follow-up Completion Statement Received
Action Date:	4/10/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been

NO LOCATION AID (Continued) **S104516963**

reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Status: Amendment Received or Issued
Action Date: 4/10/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 4/20/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 4/20/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 4/27/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response Action
Action Status: Modified Revised or Updated Plan Received
Action Date: 5/11/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Immediate Response Action
Action Status: Written Approval of Plan
Action Date: 5/14/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 5/19/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 5/26/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

NO LOCATION AID (Continued) **S104516963**

been implemented.

Action Type: Activity and Use Limitation
Action Status: Transmittal, Notice, or Notification Received
Action Date: 5/26/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: An activity type that is related to an Audit
Action Status: NAFNVD
Action Date: 7/18/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

INST CONTROL:

Release Tracking Number: 3-0014848
Action Type: AUL
Action Stat: AMEND
Action Date: 04/10/2002
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release Tracking Number: 3-0014848
Action Type: AUL
Action Stat: RECPT
Action Date: 10/19/1998
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release Tracking Number: 3-0014848
Action Type: AUL
Action Stat: SNAUDI
Action Date: 04/26/2007
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release Tracking Number: 3-0017885
Action Type: AUL
Action Stat: AMEND
Action Date: 04/10/2002
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release Tracking Number: 3-0017885
Action Type: AUL
Action Stat: RECPT
Action Date: 05/26/1999
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

NO LOCATION AID (Continued) **S104516963**

Release:

Release Tracking Number/Current Status:	3-0014064 / DPS
Primary ID:	3-0014064
Official City:	HAVERHILL
Notification:	07/29/1996
Category:	120 DY
Status Date:	12/30/1997
Phase:	PHASE II
Response Action Outcome:	-
Oil / Haz Material Type:	Hazardous Material

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0014848 / RAO
Primary ID:	3-0014064
Official City:	HAVERHILL
Notification:	02/21/1997
Category:	72 HR
Status Date:	10/19/1998
Phase:	PHASE III
Response Action Outcome:	A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Oil / Haz Material Type:	Oil and Hazardous Material

Click here to access the MA DEP site for this facility:

Release Tracking Number/Current Status:	3-0017885 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	01/22/1999
Category:	72 HR
Status Date:	05/26/1999
Phase:	Not reported
Response Action Outcome:	A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Oil / Haz Material Type:	Hazardous Material

Click here to access the MA DEP site for this facility:

ENFORCEMENT:

Region:	NERO
DEP Region:	NERO
DEP Program:	3R
DEP Bureau:	BWSC
Program:	Not reported
Program Id:	3-0014848
High Or Low Level Enforcement:	HLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Not reported
Date Executed:	08/11/2010

NO LOCATION AID (Continued) **S104516963**

ENF #:	ACOP-NE-10-3R009
Document Type:	ACOP
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	Y
Regional Comment:	Not reported
Final Payment Due Date:	09/11/2010
ACOP $:	5000
PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	Not reported
Ownership:	Commercially Owned

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193 SW 1/2-1 0.942 mi. 4972 ft. | **NO LOCATION AID** | **SHWS RELEASE** | **S106512867 N/A**
11 VILLA ST
HAVERHILL, MA

Relative: Higher

Actual: 43 ft.

SHWS:

Release Tracking Number/Current Status:	3-0023696 / RAO
Release Town:	HAVERHILL
Notification Date:	03/24/2004
Category:	TWO HR
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	05/24/2004
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Oil
Location Type:	COMMERCIAL
Source:	TRANSFORM

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	MODF
Quantity:	10 gallons
Chemical:	TRANSFORMER OIL
Quantity:	10 gallons

Actions:

Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	3/24/2004
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	3/24/2004
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been

NO LOCATION AID (Continued) **S106512867**

reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 4/5/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 5/24/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 5/24/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Release Tracking Number/Current Status: 3-0023696 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 03/24/2004
Category: TWO HR
Status Date: 05/24/2004
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

194
NW
1/2-1
0.961 mi.
5073 ft.

PENTUCKET VILLAGE
ORANGE ST
HAVERHILL, MA 01830

SHWS **S100041229**
RELEASE **N/A**

Relative:
Higher

Actual:
121 ft.

SHWS:
Release Tracking Number/Current Status: 3-0000894 / RAO
Release Town: HAVERHILL
Notification Date: 01/15/1989
Category: NONE
Associated ID: Not reported
Current Status: **Response Action Outcome**
Status Date: 10/13/1995
Phase: Not reported
Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil Or Haz Material: Not reported

Click here to access the MA DEP site for this facility:

PENTUCKET VILLAGE (Continued) **S100041229**

Chemicals:
Chemical: UNKNOWN
Quantity: Not reported

Actions:
Action Type: Release Disposition
Action Status: Valid Transition Site
Action Date: 1/15/1989
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 10/13/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: TREGS
Action Status: PENNFA
Action Date: 7/8/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Release Tracking Number/Current Status: 3-0000894 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 01/15/1989
Category: NONE
Status Date: 10/13/1995
Phase: Not reported
Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil / Haz Material Type: Not reported

Click here to access the MA DEP site for this facility:

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195 SW 1/2-1 0.965 mi. 5095 ft. | **FOUR SEASONS CAR WASH**
427 RIVER ST
HAVERHILL, MA | **SHWS RELEASE** | **S104482331 N/A**

Relative: Higher

Actual: 43 ft.

SHWS:
Release Tracking Number/Current Status: 3-0018923 / RAO
Release Town: HAVERHILL
Notification Date: 10/29/1999
Category: 120 DY
Associated ID: Not reported
Current Status: **Response Action Outcome**
Status Date: 12/16/1999
Phase: Not reported
Response Action Outcome: B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.
Oil Or Haz Material: Oil

FOUR SEASONS CAR WASH (Continued) **S104482331**

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	C11 THRU C22 AROMATIC HYDROCARBONS
Quantity:	400 milligrams per kilogram

Actions:

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	10/29/1999
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	10/29/1999
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	12/16/1999
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	2/8/2000
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

Release:

Release Tracking Number/Current Status:	3-0018923 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	10/29/1999
Category:	120 DY
Status Date:	12/16/1999
Phase:	Not reported
Response Action Outcome:	B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

196 ESE 1/2-1 0.967 mi. 5108 ft.

Relative: Lower

Actual: 20 ft.

HOYT & WORTHEN TANNING CORP
60 RAILROAD ST
HAVERHILL, MA 01830

CERCLIS **1000390670**
SHWS **MAD001029289**
RELEASE
RCRA NonGen / NLR
FINDS
ENF
ECHO

CERCLIS:

Site ID:	0100378
EPA ID:	MAD001029289
Facility County:	ESSEX
Short Name:	HOYT & WORTHEN TANNING CO
Congressional District:	06
IFMS ID:	Not reported
SMSA Number:	4160
USGC Hydro Unit:	01070002
Federal Facility:	Not a Federal Facility
DMNSN Number:	0.00000
Site Orphan Flag:	N
RCRA ID:	Not reported
USGS Quadrangle:	Not reported
Site Init By Prog:	Not reported
NFRAP Flag:	Not reported
Parent ID:	Not reported
RST Code:	Not reported
EPA Region:	01
Classification:	Not reported
Site Settings Code:	Not reported
NPL Status:	Not on the NPL
DMNSN Unit Code:	Not reported
RBRAC Code:	Not reported
RResp Fed Agency Code:	Not reported
Non NPL Status:	Other Cleanup Activity: State-Lead Cleanup
Non NPL Status Date:	08/18/00
Site Fips Code:	25009
CC Concurrence Date:	/ /
CC Concurrence FY:	Not reported
Alias EPA ID:	Not reported
Site FUDS Flag:	Not reported

CERCLIS Site Contact Name(s):

Contact ID:	1270187.00000
Contact Name:	Nancy Smith
Contact Tel:	(617) 918-1436
Contact Title:	Site Assessment Manager (SAM)
Contact Email:	Not reported

Alias Comments: Not reported

Site Description: The MA DEP has recommended that this site be assigned state lead status. A site specific letter of recommendation will be forwarded to EPA later this year.The MA DEP has recommended that this site be assigned state lead status. A site specific letter of recommendation will be forwarded to EPA later this year.

CERCLIS Assessment History:

Action Code:	001
Action:	DISCOVERY

HOYT & WORTHEN TANNING CORP (Continued) **1000390670**

Date Started:	/ /
Date Completed:	06/01/81
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	001
Action:	PRELIMINARY ASSESSMENT
Date Started:	/ /
Date Completed:	07/01/83
Priority Level:	Low priority for further assessment
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	001
Action:	SITE INSPECTION
Date Started:	03/08/91
Date Completed:	10/28/91
Priority Level:	Low priority for further assessment
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	001
Action:	SITE REASSESSMENT
Date Started:	/ /
Date Completed:	08/02/01
Priority Level:	Low priority for further assessment
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

SHWS:

Release Tracking Number/Current Status:	3-0000326 / RAO
Release Town:	HAVERHILL
Notification Date:	01/15/1987
Category:	NONE
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	07/27/2004
Phase:	PHASE III
Response Action Outcome:	B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.

HOYT & WORTHEN TANNING CORP (Continued) **1000390670**

Oil Or Haz Material: Not reported

Click here to access the MA DEP site for this facility:

Chemicals:
Chemical: UNKNOWN
Quantity: Not reported

Actions:
Action Type: Release Disposition
Action Status: Valid Transition Site
Action Date: 1/15/1987
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 11/17/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: TREGS
Action Status: LSPFA
Action Date: 12/11/1995
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 12/12/1995
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 12/12/1995
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 12/12/1995
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: An activity type that is related to an Audit
Action Status: NOA
Action Date: 3/3/2006
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: An activity type that is related to an Audit
Action Status: Audit Follow-up Completion Statement Received
Action Date: 3/30/2007
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

HOYT & WORTHEN TANNING CORP (Continued) **1000390670**

Action Type: RLFA
Action Status: FLDD1A
Action Date: 4/18/2006
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 7/27/2004
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 7/27/2004
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Compliance and Enforcement Action
Action Status: Notice of Non-Compliance Issued
Action Date: 9/13/1995
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: An activity type that is related to an Audit
Action Status: NAFVIO
Action Date: 9/13/1995
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: An activity type that is related to an Audit
Action Status: Notice of Non-compliance related to an Audit
Action Date: 9/6/2006
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Release:
Release Tracking Number/Current Status: 3-0000326 / RAO
Primary ID: Not reported
Official City: HAVERHILL
Notification: 01/15/1987
Category: NONE
Status Date: 07/27/2004
Phase: PHASE III
Response Action Outcome: B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.
Oil / Haz Material Type: Not reported

Click here to access the MA DEP site for this facility:

RCRA NonGen / NLR:
Date form received by agency: 06/30/1980
Facility name: HOYT & WORTHEN TANNING CORP
Facility address: 60 RAILROAD ST

HOYT & WORTHEN TANNING CORP (Continued) **1000390670**

	HAVERHILL, MA 01830
EPA ID:	MAD001029289
Contact:	CHARLES HOYT
Contact address:	60 RAILROAD ST HAVERHILL, MA 01830
Contact country:	US
Contact telephone:	(508) 373-3828
Contact email:	Not reported
EPA Region:	01
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	HOYT & WORTHEN TANNING
Owner/operator address:	60 RAILROAD ST HAVERHILL, MA 01830
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	02/21/1990
Owner/Op end date:	Not reported

Owner/operator name:	HOYT & WORTHEN TANNING CORP
Owner/operator address:	60 RAILROAD ST HAVERHILL, MA 01830
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	10/16/2004
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	06/30/1980
Site name:	HOYT & WORTHEN TANNING CORP
Classification:	Not a generator, verified
Violation Status:	No violations found

HOYT & WORTHEN TANNING CORP (Continued) **1000390670**

FINDS:

Registry ID: 110001956205

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

MA-EPICS - Massachussetts Environmental Protection Integrated Computer System

Registry ID: 110006816632

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MA-EPICS - Massachussetts Environmental Protection Integrated Computer System

ENFORCEMENT:

Region:	NERO
DEP Region:	NERO
DEP Program:	3A
DEP Bureau:	BWSC
Program:	Not reported
Program Id:	3-0000326
High Or Low Level Enforcement:	LLE
FMF #:	Not reported
Comptroller Billing Name:	Not reported
Town Where Violation Occurred:	Not reported
Date Executed:	09/06/2006
ENF #:	NON-NE-06-3A151
Document Type:	NON
AG Ref (Y/N):	Not reported
Doc Archived (Y/N):	Not reported
EJ Community (Y/N):	Not reported
Regional Comment:	Not reported
Final Payment Due Date:	Not reported
ACOP $:	Not reported

HOYT & WORTHEN TANNING CORP (Continued) **1000390670**

PAN $:	Not reported
EMS (Y/N):	Not reported
EMS$:	Not reported
SEP (Y/N):	Not reported
SEP $:	Not reported
Demand $:	Not reported
Suspended $:	Not reported
Ownership:	Individually Owned

ECHO:

Envid:	1000390670
Registry ID:	110006816632
FIPS Code:	25009
EPA Region:	01
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Y
Latitude:	42.77088
Longitude:	-71.06981
Map Icon:	RCRA-IC-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	CENTER OF A FACILITY OR STATION
Accuracy Meters:	30
Derived Tribes:	Not reported
Derived Huc:	01070006
Derived WBD:	Not reported
Derived STCT FPS:	25009
Derived Zip:	01835
Derived CD113:	03
Derived CB2010:	250092610001006
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	_____
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y

HOYT & WORTHEN TANNING CORP (Continued) **1000390670**

TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	MAD058523192
RCRA Permit Types:	Other
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0
RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported

HOYT & WORTHEN TANNING CORP (Continued) **1000390670**

SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110006816632
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported
Envid:	1000390670
Registry ID:	110001956205
FIPS Code:	25009
EPA Region:	01
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Y
Latitude:	42.77088
Longitude:	-71.06981
Map Icon:	RCRA-IC-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	CENTER OF A FACILITY OR STATION
Accuracy Meters:	30
Derived Tribes:	Not reported
Derived Huc:	01070006
Derived WBD:	Not reported
Derived STCT FPS:	25009
Derived Zip:	01835
Derived CD113:	03
Derived CB2010:	250092610001006
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported

HOYT & WORTHEN TANNING CORP (Continued) **1000390670**

Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	_____
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	MAD001029289
RCRA Permit Types:	Other
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported

HOYT & WORTHEN TANNING CORP (Continued) **1000390670**

RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0
RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110001956205
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

197
SW
1/2-1
1.000 mi.
5278 ft.

DAIRY QUEEN **SHWS** **S100828882**
454 RIVER ST **RELEASE** **N/A**
HAVERHILL, MA 01830

Relative:
Higher

Actual:
40 ft.

SHWS:

Release Tracking Number/Current Status:	3-0001541 / RAO
Release Town:	HAVERHILL
Notification Date:	01/15/1989
Category:	NONE
Associated ID:	Not reported
Current Status:	**Response Action Outcome**
Status Date:	10/04/1999
Phase:	PHASE II
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Not reported

DAIRY QUEEN (Continued) **S100828882**

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	UNKNOWN
Quantity:	Not reported

Actions:

Action Type:	Release Disposition
Action Status:	Valid Transition Site
Action Date:	1/15/1989
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	TREGS
Action Status:	LSPFA
Action Date:	10/30/1997
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 1
Action Status:	Completion Statement Received
Action Date:	10/30/1997
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	10/30/1997
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	10/30/1997
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	10/4/1999
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Abatement Measure
Action Status:	Written Plan Received
Action Date:	6/4/1999
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Release Tracking Number/Current Status:	3-0001541 / RAO
Primary ID:	Not reported
Official City:	HAVERHILL
Notification:	01/15/1989

DAIRY QUEEN (Continued) **S100828882**

Category:	NONE
Status Date:	10/04/1999
Phase:	PHASE II
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type:	Not reported

Click here to access the MA DEP site for this facility:

Count: 10 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
HAVERHILL	S118337341	STATE HIGHWAY	ROUTE 495 SOUTH @ MM 108.2		SHWS, RELEASE
HAVERHILL	S111989447	EXIT 52	INTERSTATE 495 NORTH		SHWS, RELEASE
HAVERHILL	S117964746	FEEDER LANE FROM ROUTE 125	ROUTE 495 SOUTH	01830	SHWS, RELEASE
HAVERHILL	S105199924	POLE 87	RTE 97 BROADWAY	01830	SHWS, RELEASE
HAVERHILL	S116358052	ROADWAY	CREEK BROOK DRIVE	01832	SHWS, RELEASE
HAVERHILL	S105735625	NO LOCATION AID	LOWELL AVE		SHWS, RELEASE
HAVERHILL	S101018955	PERFECTION DIESEL CO	ORCHARD AVE	01830	SHWS, SPILLS, RELEASE
HAVERHILL	S110303646	ROUTE 495 RAMP TO RIVER ST AND OVE	RIVER ST	01832	SHWS, RELEASE
HAVERHILL	S105596568	UTILITY POLE NO 42	SALEM ST	01830	SHWS, RELEASE
HAVERHILL	S105309338	PLUGS POND	SANDERS RD	01830	SHWS, RELEASE

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/30/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: EPA
Telephone: N/A
Last EDR Contact: 01/26/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/30/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: EPA
Telephone: N/A
Last EDR Contact: 01/26/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/30/2015	Source: EPA
Date Data Arrived at EDR: 11/07/2015	Telephone: N/A
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 01/26/2016
Number of Days to Update: 58	Next Scheduled EDR Contact: 04/18/2016
	Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 03/26/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/08/2015	Telephone: 703-603-8704
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 01/06/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 04/18/2016
	Data Release Frequency: Varies

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 02/19/2016
Number of Days to Update: 94	Next Scheduled EDR Contact: 06/06/2016
	Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 02/19/2016
Number of Days to Update: 94	Next Scheduled EDR Contact: 06/06/2016
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015
Date Data Arrived at EDR: 05/29/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 13

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/16/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 09/10/2015
Date Data Arrived at EDR: 09/11/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 53

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/24/2015
Next Scheduled EDR Contact: 03/14/2016
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 09/10/2015
Date Data Arrived at EDR: 09/11/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 53

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/24/2015
Next Scheduled EDR Contact: 03/14/2016
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/22/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/29/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Site Transition List

Contains information on releases of oil and hazardous materials that have been reported to DEP.

Date of Government Version: 10/27/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 12/14/2015
Number of Days to Update: 46

Source: Department of Environmental Protection
Telephone: 617-292-5990
Last EDR Contact: 01/13/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

LF PROFILES: Landfill Profiles Listing

This spreadsheet describes landfills that have actively accepted waste or have closed under MassDEP Solid Waste Regulations first adopted in 1971 (310 CMR 16.00 and 310 CMR 19.00). The list does not include landfills that closed before 1971 (and which never had a MassDEP permit or approval), or for which agency data is incomplete.

Date of Government Version: 07/01/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 12/14/2015
Number of Days to Update: 48

Source: Department of Environmental Protection
Telephone: 617-292-5868
Last EDR Contact: 01/08/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Varies

SWF/LF: Solid Waste Facility Database/Transfer Stations

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/16/2015
Date Data Arrived at EDR: 10/07/2015
Date Made Active in Reports: 10/22/2015
Number of Days to Update: 15

Source: Department of Environmental Protection
Telephone: 617-292-5989
Last EDR Contact: 01/08/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank Listing

Sites within the Leaking Underground Storage Tank Listing that have a UST listed as its source.

Date of Government Version: 10/27/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 12/14/2015
Number of Days to Update: 46

Source: Department of Environmental Protection
Telephone: 617-292-5990
Last EDR Contact: 01/13/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Quarterly

LAST: Leaking Aboveground Storage Tank Sites

Sites within the Releases Database that have a AST listed as its source.

Date of Government Version: 10/27/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 12/14/2015
Number of Days to Update: 46

Source: Department of Environmental Protection
Telephone: 617-292-5500
Last EDR Contact: 01/13/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 01/07/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 41

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/08/2015
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/27/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/28/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 55

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 08/20/2015
Date Data Arrived at EDR: 10/30/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 111

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 11/24/2015
Date Data Arrived at EDR: 12/01/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 34

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/27/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 11/04/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 52

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/13/2015
Date Data Arrived at EDR: 10/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 118

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/08/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Varies

UST: Summary Listing of all the Tanks Registered in the State of Massachusetts
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 10/04/2015
Date Data Arrived at EDR: 10/21/2015
Date Made Active in Reports: 12/14/2015
Number of Days to Update: 54

Source: Department of Fire Services, Office of the Public Safety
Telephone: 617-556-1035
Last EDR Contact: 01/20/2016
Next Scheduled EDR Contact: 05/02/2016
Data Release Frequency: Quarterly

AST: Aboveground Storage Tank Database
Registered Aboveground Storage Tanks.

Date of Government Version: 10/22/2009
Date Data Arrived at EDR: 10/28/2009
Date Made Active in Reports: 11/06/2009
Number of Days to Update: 9

Source: Department of Public Safety
Telephone: 617-556-1035
Last EDR Contact: 01/19/2016
Next Scheduled EDR Contact: 05/02/2016
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/13/2015
Date Data Arrived at EDR: 10/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 118

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 11/24/2015
Date Data Arrived at EDR: 12/01/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 34

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/05/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 52

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 08/20/2015
Date Data Arrived at EDR: 10/30/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 111

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Semi-Annually

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 01/07/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 41

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 12/14/2014
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 28

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/27/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

INST CONTROL: Sites With Activity and Use Limitation
Activity and Use Limitations establish limits and conditions on the future use of contaminated property, and therefore allow cleanups to be tailored to these uses.

Date of Government Version: 10/27/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 12/14/2015
Number of Days to Update: 46

Source: Department of Environmental Protection
Telephone: 617-292-5990
Last EDR Contact: 01/13/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/28/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Completed Brownfields Covenants Listing
Under Massachusetts law, M.G.L. c. 21E is the statute that governs the cleanup of releases of oil and/or hazardous material to the environment. The Brownfields Act of 1998 amended M.G.L. c. 21E by establishing significant liability relief and financial incentives to spur the redevelopment of brownfields, while ensuring that the Commonwealth's environmental standards are met. Most brownfields are redeveloped with the benefit of liability protections that operate automatically under M.G.L. c. 21E.

Date of Government Version: 11/01/2014
Date Data Arrived at EDR: 11/06/2014
Date Made Active in Reports: 11/10/2014
Number of Days to Update: 4

Source: Office of the Attorney General
Telephone: 617-963-2423
Last EDR Contact: 02/01/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Annually

BROWNFIELDS 2: Potential Brownfields Listing
A listing of potential brownfields site locations in the state.

Date of Government Version: 12/17/2014
Date Data Arrived at EDR: 05/06/2015
Date Made Active in Reports: 05/11/2015
Number of Days to Update: 5

Source: Department of Environmental Protection
Telephone: 617-556-1007
Last EDR Contact: 02/01/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/22/2015
Date Data Arrived at EDR: 12/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/21/2015
Next Scheduled EDR Contact: 04/04/2016
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 02/01/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/17/2015
Date Data Arrived at EDR: 12/04/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 76

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/31/2015
Next Scheduled EDR Contact: 12/14/2015
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/17/2015
Date Data Arrived at EDR: 12/04/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 76

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/25/2015
Next Scheduled EDR Contact: 03/14/2016
Data Release Frequency: Quarterly

Local Land Records

LIENS: Liens Information Listing
A listing of environmental liens.

Date of Government Version: 02/24/2014
Date Data Arrived at EDR: 02/27/2014
Date Made Active in Reports: 03/14/2014
Number of Days to Update: 15

Source: Department of Environmental Protection
Telephone: 617-292-5628
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/24/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/02/2015
Number of Days to Update: 68

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 12/30/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Annually

MA SPILLS: Historical Spill List

The Spills Database was the release notification tracking system for spills that occurred prior to October 1, 1993. This information should be considered to be primarily of historical interest since all of the listed spills have either been cleaned up or assigned new tracking numbers and moved to the Reportable Releases or Sites Transition List databases.

Date of Government Version: 09/30/1993
Date Data Arrived at EDR: 12/03/2003
Date Made Active in Reports: 12/31/2003
Number of Days to Update: 28

Source: Department of Environmental Protection
Telephone: 617-292-5720
Last EDR Contact: 12/03/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

RELEASE: Reportable Releases

Contains information on all releases of oil and hazardous materials that have been reported to DEP

Date of Government Version: 10/27/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 12/14/2015
Number of Days to Update: 46

Source: Department of Environmental Protection
Telephone: 617-292-5990
Last EDR Contact: 01/13/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 12/11/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/08/2013
Number of Days to Update: 36

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 03/10/1998
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/05/2013
Number of Days to Update: 61

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Varies

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 12/11/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/15/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/15/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/19/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/01/2015
Date Data Arrived at EDR: 09/03/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 02/16/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/09/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/12/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/23/2015
Next Scheduled EDR Contact: 04/04/2016
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/12/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 110

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/24/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/11/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 08/01/2015
Date Data Arrived at EDR: 08/26/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 69

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 02/12/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 10/15/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 33

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/12/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/23/2015
Date Data Arrived at EDR: 02/06/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 01/08/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/26/2015
Date Data Arrived at EDR: 07/10/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 95

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 02/08/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 01/13/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 12/11/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 01/29/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/07/2015
Date Data Arrived at EDR: 07/09/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 69

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/07/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 02/03/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 46

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 12/23/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Varies

BRS: Biennial Reporting System
The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 11/24/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations
This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/15/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program
DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 11/23/2015
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 86

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 02/08/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites
Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites
A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014
Date Data Arrived at EDR: 11/26/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 01/26/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites
A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)
The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 12/22/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 12/22/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Annually

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/18/2015
Date Data Arrived at EDR: 09/01/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 125

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 12/03/2015
Next Scheduled EDR Contact: 03/14/2016
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing
This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 12/04/2015
Next Scheduled EDR Contact: 03/14/2016
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 12/04/2015
Next Scheduled EDR Contact: 03/14/2016
Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/20/2015
Date Data Arrived at EDR: 09/09/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 55

Source: EPA
Telephone: (617) 918-1111
Last EDR Contact: 12/10/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Quarterly

AIRS: Permitted Facilities Listing

A listing of Air Quality permit applications.

Date of Government Version: 10/19/2015
Date Data Arrived at EDR: 10/22/2015
Date Made Active in Reports: 12/15/2015
Number of Days to Update: 54

Source: Department of Environmental Protection
Telephone: 617-292-5789
Last EDR Contact: 01/19/2016
Next Scheduled EDR Contact: 05/02/2016
Data Release Frequency: Varies

DRYCLEANERS: Regulated Drycleaning Facilities

A listing of Department of Environmental Protection regulated drycleaning facilities that use perchloroethylene under the Environmental Results Program.

Date of Government Version: 10/26/2015
Date Data Arrived at EDR: 10/28/2015
Date Made Active in Reports: 12/14/2015
Number of Days to Update: 47

Source: Department of Environmental Protection
Telephone: 617-292-5633
Last EDR Contact: 01/19/2016
Next Scheduled EDR Contact: 05/02/2016
Data Release Frequency: Varies

ENFORCEMENT: Enforcement Action Cases

A listing of enforcement action cases tracked by Department of Environmental Protection programs, including Solid Waste and Hazardous Waste.

Date of Government Version: 11/13/2015
Date Data Arrived at EDR: 11/17/2015
Date Made Active in Reports: 12/14/2015
Number of Days to Update: 27

Source: Department of Environmental Quality
Telephone: 617-292-5979
Last EDR Contact: 02/16/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 12/01/2010
Date Data Arrived at EDR: 12/23/2010
Date Made Active in Reports: 02/03/2011
Number of Days to Update: 42

Source: Department of Environmental Protection
Telephone: 617-292-5970
Last EDR Contact: 12/11/2015
Next Scheduled EDR Contact: 03/28/2016
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for underground storage tanks. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 10/21/2011
Date Data Arrived at EDR: 10/25/2011
Date Made Active in Reports: 11/18/2011
Number of Days to Update: 24

Source: Office of State Fire Marshal
Telephone: 978-567-3100
Last EDR Contact: 01/19/2016
Next Scheduled EDR Contact: 05/02/2016
Data Release Frequency: Quarterly

Financial Assurance 3: Financial Assurance Information listing

Information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay

Date of Government Version: 10/01/2014
Date Data Arrived at EDR: 10/30/2014
Date Made Active in Reports: 11/10/2014
Number of Days to Update: 11

Source: Department of Environmental Protection
Telephone: 617-292-5970
Last EDR Contact: 02/08/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Varies

GWDP: Ground Water Discharge Permits

The Ground Water Discharge Permits datalayer (formerly known as Groundwater Discharge Points) is a statewide point dataset containing approximate locations of permitted discharges to groundwater.

Date of Government Version: 09/01/2011
Date Data Arrived at EDR: 11/08/2011
Date Made Active in Reports: 12/05/2011
Number of Days to Update: 27

Source: MassGIS
Telephone: 617-556-1150
Last EDR Contact: 02/05/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Varies

HW GEN: List of Massachusetts Hazardous Waste Generators

Permanent generator identification numbers for all Massachusetts generators of hazardous waste and waste oil that have registered with or notified MassDEP of their hazardous waste activities.

Date of Government Version: 09/25/2015
Date Data Arrived at EDR: 09/30/2015
Date Made Active in Reports: 10/22/2015
Number of Days to Update: 22

Source: Department of Environmental Protection
Telephone: 617-292-5500
Last EDR Contact: 12/29/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Semi-Annually

LEAD: Lead Inspection Database

The Massachusetts Childhood Lead Poisoning Prevention Program data of lead inspection for the state.

Date of Government Version: 07/09/2015
Date Data Arrived at EDR: 07/15/2015
Date Made Active in Reports: 08/04/2015
Number of Days to Update: 20

Source: Department of Health & Human Services, Childhood Lead Poisoning Prevention Progr
Telephone: 617-624-5757
Last EDR Contact: 01/04/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Varies

MERCURY: Mercury Product Recyling Drop-Off Locations Listing

A listing of locations, collecting and recycling for mercury-added products. Mercury is toxic to the human nervous system, as well as fish and animals. Mercury can enter the body either through skin absorption or through inhalation of mercury vapors. At room temperature, small beads of mercury will vaporize.

Date of Government Version: 08/28/2015
Date Data Arrived at EDR: 08/28/2015
Date Made Active in Reports: 09/22/2015
Number of Days to Update: 25

Source: Department of Environmental Protection
Telephone: 617-292-5632
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

NPDES: NPDES Permit Listing

Listing of treatment plants in Massachusetts that hold permits to discharge to groundwater.

Date of Government Version: 09/15/2015
Date Data Arrived at EDR: 09/18/2015
Date Made Active in Reports: 10/22/2015
Number of Days to Update: 34

Source: Department of Environmental Protection
Telephone: 508-767-2781
Last EDR Contact: 02/19/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Varies

TIER 2: Tier 2 Information Listing

A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/29/2015
Date Made Active in Reports: 09/02/2015
Number of Days to Update: 35

Source: Massachusetts Emergency Management Agency
Telephone: 508-820-2019
Last EDR Contact: 01/15/2016
Next Scheduled EDR Contact: 05/02/2016
Data Release Frequency: Annually

TSD: TSD Facility

List of Licensed Hazardous Waste Treatment, Storage Disposal Facilities (TSDFs) in Massachusetts.

Date of Government Version: 04/01/2015
Date Data Arrived at EDR: 06/30/2015
Date Made Active in Reports: 07/10/2015
Number of Days to Update: 10

Source: Department of Environmental Protection
Telephone: 617-292-5580
Last EDR Contact: 10/02/2015
Next Scheduled EDR Contact: 01/11/2016
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/20/2015
Date Data Arrived at EDR: 09/23/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 103

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 12/21/2015
Next Scheduled EDR Contact: 04/04/2016
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 11/23/2015
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 86

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 11/24/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Protection in Massachusetts.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/24/2013
Number of Days to Update: 176

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank
The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Protection in Massachusetts.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/24/2013
Number of Days to Update: 176

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: MassDEP
Telephone: 617-292-5907

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

HAFFNER REALTY TRUST
284 WINTER ST
HAVERHILL, MA 01830

TARGET PROPERTY COORDINATES

Latitude (North):	42.777156 - 42˚ 46’ 37.76’’
Longitude (West):	71.087692 - 71˚ 5’ 15.69’’
Universal Tranverse Mercator:	Zone 19
UTM X (Meters):	329214.2
UTM Y (Meters):	4737968.0
Elevation:	24 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5644812 HAVERHILL, MA
Version Date:	2012

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

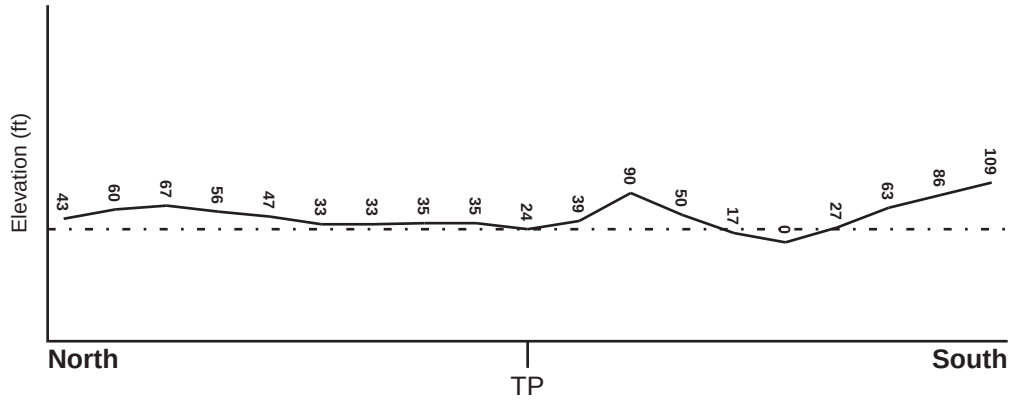
TOPOGRAPHIC INFORMATION

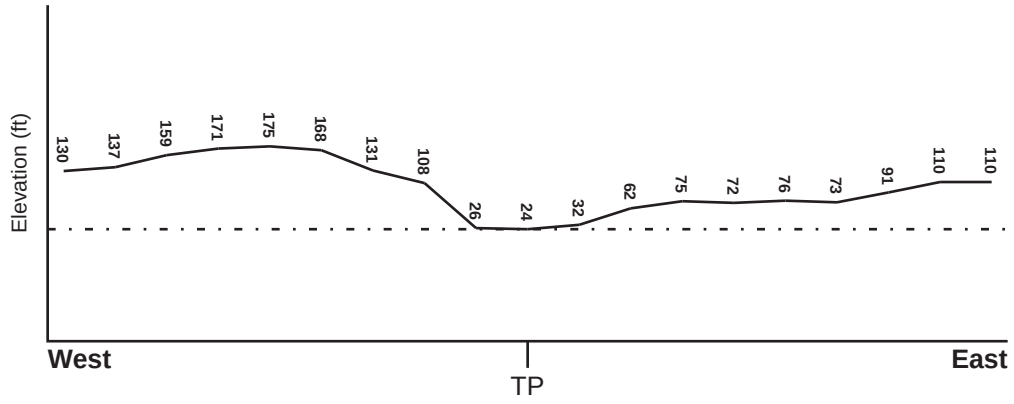
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 24 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
ESSEX, MA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:	2500850007B - FEMA Q3 Flood data
Additional Panels in search area:	2500850004B - FEMA Q3 Flood data 2500850006B - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
HAVERHILL	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
2	1/8 - 1/4 Mile WNW	SW
A16	1/2 - 1 Mile ENE	SW
A17	1/2 - 1 Mile ENE	SW

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

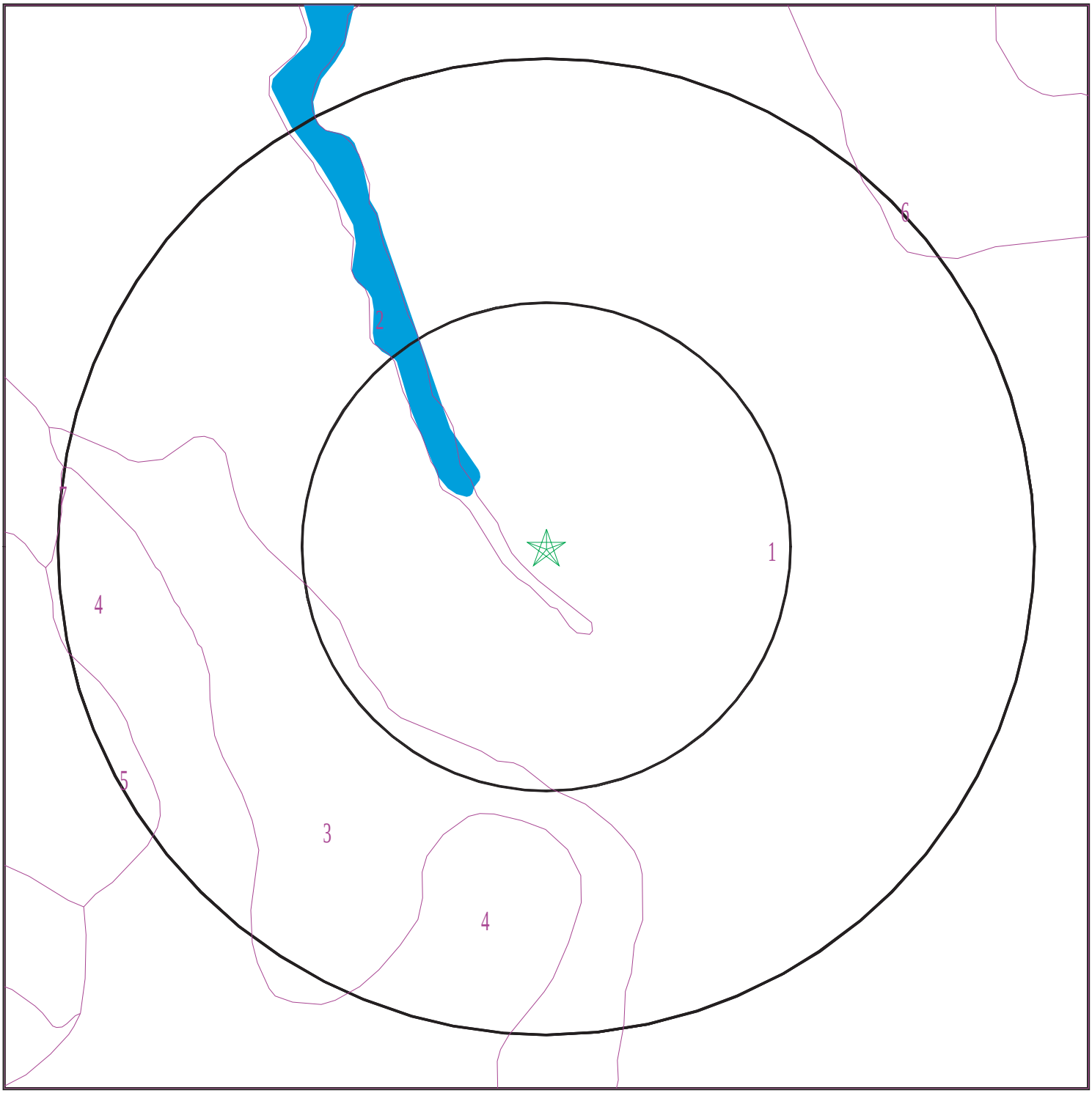
Era:	Paleozoic
System:	Silurian
Series:	Silurian
Code:	Se *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Eugeosynclinal Deposit

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 04551943.2r



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME: Haffner Realty Trust ADDRESS: 284 Winter St Haverhill MA 01830 LAT/LONG: 42.777156 / 71.087692	CLIENT: Ramboll Environ CONTACT: Robert Seeley INQUIRY #: 04551943.2r DATE: March 01, 2016 3:09 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Urban land

Soil Surface Texture:
Hydrologic Group: Not reported

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 2

Soil Component Name: Water

Soil Surface Texture:
Hydrologic Group: Not reported

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 3

Soil Component Name: Windsor

Soil Surface Texture: loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	9 inches	16 inches	loamy sand	Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6 Min: 4.5
2	16 inches	27 inches	sand	Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6.5 Min: 4.5
3	27 inches	59 inches	stratified sand	Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6.5 Min: 4.5
4	0 inches	9 inches	loamy sand	Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6 Min: 4.5

Soil Map ID: 4

Soil Component Name: Windsor

Soil Surface Texture: loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 60 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	9 inches	16 inches	loamy sand	Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6 Min: 4.5

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	16 inches	27 inches	sand	Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6.5 Min: 4.5
3	27 inches	59 inches	stratified sand	Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6.5 Min: 4.5
4	0 inches	9 inches	loamy sand	Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6 Min: 4.5

Soil Map ID: 5

Soil Component Name: Udorthents

Soil Surface Texture: variable

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	variable	Not reported	Not reported	Max: 141.14 Min: 0.42	Max: Min:
2	5 inches	59 inches	variable	Not reported	Not reported	Max: 141.14 Min: 0.42	Max: Min:

Soil Map ID: 6

Soil Component Name: Canton

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Not reported	Not reported	Max: 42.34 Min: 14.11	Max: 6 Min: 3.6
2	7 inches	33 inches	fine sandy loam	Not reported	Not reported	Max: 42.34 Min: 14.11	Max: 6 Min: 3.6
3	33 inches	59 inches	gravelly loamy sand	Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6 Min: 3.6

Soil Map ID: 7

Soil Component Name: Windsor

Soil Surface Texture: loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 60 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	9 inches	16 inches	loamy sand	Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6 Min: 4.5
2	16 inches	27 inches	sand	Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6.5 Min: 4.5

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	27 inches	59 inches	stratified sand	Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6.5 Min: 4.5
4	0 inches	9 inches	loamy sand	Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6 Min: 4.5

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1.000 miles
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
3	USGS40000480551	1/8 - 1/4 Mile SE
4	USGS40000480535	1/4 - 1/2 Mile South
5	USGS40000480539	1/4 - 1/2 Mile SSE
6	USGS40000480544	1/4 - 1/2 Mile SE
9	USGS40000480545	1/4 - 1/2 Mile SE
10	USGS40000480530	1/4 - 1/2 Mile South
13	USGS40000480548	1/2 - 1 Mile ESE
14	USGS40000480524	1/2 - 1 Mile South
15	USGS40000480550	1/2 - 1 Mile ESE
18	USGS40000480543	1/2 - 1 Mile ESE
19	USGS40000480512	1/2 - 1 Mile SSW
B20	USGS40000480504	1/2 - 1 Mile SSW
B21	USGS40000480498	1/2 - 1 Mile SSW
22	USGS40000480549	1/2 - 1 Mile ESE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
12	MA3128002	1/2 - 1 Mile East

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	MA8000000000954	0 - 1/8 Mile North
7	MA8000000001270	1/4 - 1/2 Mile NW
8	MA8000000000986	1/4 - 1/2 Mile North
11	MA8000000001471	1/2 - 1 Mile ENE

PHYSICAL SETTING SOURCE MAP - 04551943.2r

County Boundary
Major Roads
Contour Lines
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

0 1/4 1/2 1 Miles

Groundwater Flow Direction
GI Indeterminate Groundwater Flow at Location
GV Groundwater Flow Varies at Location

Potentially Productive Aquifers
Not Potentially Productive Aquifers
DEP Approved Zone IIs
EPA Designated Sole Src. Aq.

SITE NAME: Haffner Realty Trust	CLIENT: Ramboll Environ
ADDRESS: 284 Winter St Haverhill MA 01830	CONTACT: Robert Seeley INQUIRY #: 04551943.2r
LAT/LONG: 42.777156 / 71.087692	DATE: March 01, 2016 3:09 pm

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Map ID Direction Distance Elevation	Database	EDR ID Number
1 **North** **0 - 1/8 Mile** **Higher**	**MA WELLS**	**MA8000000000954**

Fid:	953	Fac name:	DYETEX INC
Address:	14 STEVENS ST	Town:	HAVERHILL
Region:	Northeast	Rtn:	Not Reported
Hw id:	Not Reported	Sw id:	Not Reported
Sseis id:	0	Npdes id:	Not Reported
Air:	Not Reported	Gwd:	Not Reported
Hwr:	Not Reported	Lqg ma:	Not Reported
Lqg rcra:	Not Reported	Lqtu:	Y
Tsdf:	Not Reported	Swd:	Not Reported
Fac id:	130382	Source id:	Not Reported
Site name:	Not Reported		
Latitude:	0		
Longitude:	0		
Type:	Not Reported	Zii num:	0
Pws id:	Not Reported	Site id:	MA8000000000954

2 **WNW** **1/8 - 1/4 Mile** **Higher**	Site ID: Groundwater Flow: Water Table Depth: Date:	3-0000882 SW Shallowest: 7.96 ft. Deepest: 8.58 ft. 03/93	**AQUIFLOW**	**2547**

3 **SE** **1/8 - 1/4 Mile** **Higher**	**FED USGS**	**USGS40000480551**	

Org. Identifier:	USGS-MA		
Formal name:	USGS Massachusetts Water Science Center		
Monloc Identifier:	USGS-424630071050801		
Monloc name:	MA-HLX 45		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	42.7750904
Longitude:	-71.0850575	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	32.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	1972	Welldepth:	35
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

4
South **FED USGS** **USGS40000480535**
1/4 - 1/2 Mile
Higher

Org. Identifier:	USGS-MA		
Formal name:	USGS Massachusetts Water Science Center		
Monloc Identifier:	USGS-424618071051501		
Monloc name:	MA-HLX 21		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	42.7717571
Longitude:	-71.0870019	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	40.00
Vert measure units:	feet	Vertacc measure val:	.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	1972	Welldepth:	25
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

5
SSE **FED USGS** **USGS40000480539**
1/4 - 1/2 Mile
Lower

Org. Identifier:	USGS-MA		
Formal name:	USGS Massachusetts Water Science Center		
Monloc Identifier:	USGS-424620071050501		
Monloc name:	MA-HLX 3		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	42.7723126
Longitude:	-71.0842241	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	15.00
Vert measure units:	feet	Vertacc measure val:	.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	1936	Welldepth:	61
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

6
SE **FED USGS** **USGS40000480544**
1/4 - 1/2 Mile
Lower

Org. Identifier:	USGS-MA		
Formal name:	USGS Massachusetts Water Science Center		
Monloc Identifier:	USGS-424622071045901		
Monloc name:	MA-HLX 32		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	42.7728682
Longitude:	-71.0825574	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	15.00
Vert measure units:	feet	Vertacc measure val:	.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	1972	Welldepth:	42
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

7
NW **MA WELLS** **MA8000000001270**
1/4 - 1/2 Mile
Higher

Fid:	1269	Fac name:	IMI INC
Address:	140 HILLDALE AVE	Town:	HAVERHILL
Region:	Northeast	Rtn:	Not Reported
Hw id:	MAD981204316	Sw id:	Not Reported
Sseis id:	0	Npdes id:	Not Reported
Air:	Not Reported	Gwd:	Not Reported
Hwr:	Not Reported	Lqg ma:	Not Reported
Lqg rcra:	Y	Lqtu:	Y
Tsdf:	Not Reported	Swd:	Not Reported
Fac id:	130380	Source id:	Not Reported
Site name:	Not Reported		
Latitude:	0		
Longitude:	0		
Type:	Not Reported	Zii num:	0
Pws id:	Not Reported	Site id:	MA8000000001270

Map ID Direction Distance Elevation	Database	EDR ID Number
8 **North** **1/4 - 1/2 Mile** **Higher**	**MA WELLS**	**MA8000000000986**

Fid:	985	Fac name:	NESTLE PREPARED FOODS COMPANY
Address:	133 HALE ST	Town:	HAVERHILL
Region:	Northeast	Rtn:	Not Reported
Hw id:	Not Reported	Sw id:	Not Reported
Sseis id:	0	Npdes id:	Not Reported
Air:	Not Reported	Gwd:	Not Reported
Hwr:	Not Reported	Lqg ma:	Not Reported
Lqg rcra:	Not Reported	Lqtu:	Y
Tsdf:	Not Reported	Swd:	Not Reported
Fac id:	364303	Source id:	Not Reported
Site name:	Not Reported		
Latitude:	0		
Longitude:	0		
Type:	Not Reported	Zii num:	0
Pws id:	Not Reported	Site id:	MA8000000000986

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9 **SE** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000480545**

Org. Identifier:	USGS-MA		
Formal name:	USGS Massachusetts Water Science Center		
Monloc Identifier:	USGS-424624071045201		
Monloc name:	MA-HLX 2		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	42.7734237
Longitude:	-71.0806129	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	14.00
Vert measure units:	feet	Vertacc measure val:	.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	1936	Welldepth:	70
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

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10 **South** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000480530**

Org. Identifier:	USGS-MA		
Formal name:	USGS Massachusetts Water Science Center		
Monloc Identifier:	USGS-424612071052401		
Monloc name:	MA-HLX 20		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	42.7700904
Longitude:	-71.089502	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	26.00
Vert measure units:	feet	Vertacc measure val:	.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	1972	Welldepth:	17
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

11
ENE
1/2 - 1 Mile
Higher

MA WELLS **MA8000000001471**

Fid:	1470	Fac name:	EZ WAY CLEANERS
Address:	143 WHITE ST	Town:	HAVERHILL
Region:	Northeast	Rtn:	Not Reported
Hw id:	Not Reported	Sw id:	Not Reported
Sseis id:	0	Npdes id:	Not Reported
Air:	Not Reported	Gwd:	Not Reported
Hwr:	Not Reported	Lqg ma:	Not Reported
Lqg rcra:	Not Reported	Lqtu:	Y
Tsdf:	Not Reported	Swd:	Not Reported
Fac id:	133535	Source id:	Not Reported
Site name:	Not Reported		
Latitude:	0		
Longitude:	0		
Type:	Not Reported	Zii num:	0
Pws id:	Not Reported	Site id:	MA8000000001471

12
East
1/2 - 1 Mile
Higher

FRDS PWS **MA3128002**

Epa region:	01	State:	MA
Pwsid:	MA3128002		
Pwsname:	SPRING HILL FARM DAIRY / INACT.		
City served:	Not Reported	State served:	MA
Zip served:	Not Reported	Fips county:	25009
Status:	Closed	Pop srvd:	25
Pwssvcconn:	1	Source:	Groundwater
Pws type:	TNCWS	Owner:	Local_Govt
Contact:	SPRING HILL FARM DAIRY / INACT.		
Contactor gname:	Not Reported		

Contact phone:	617-373-3481	Contact address1:	134 NECK RD
Contact address2:	Not Reported	Contact city:	HAVERHILL
Contact state:	MA	Contact zip:	018350000
Activity code:	I		

Location Information:

Name:	SPRING HILL FARM DAIRY / INACT.		
Pwstypcd:	TNCWS	Primsrccd:	GW
Popserved:	25		
Add1:	134 NECK ROAD		
Add2:	Not Reported		
City:	HAVERHILL	State:	MA
Zip:	018350000	Phone:	Not Reported
Cityserv:	HAVERHILL	Cntyserv:	Not Reported
Stateserv:	MA	Zipserv:	Not Reported

PWS ID:	MA3128002		
Date Initiated:	9003	Date Deactivated:	Not Reported
PWS Name:	SPRING HILL FARM DAIRY 133 NECK RD WARD HILL, MA 01830		
Addressee / Facility:	Mailing SPRING HILL FARM DAIRY 133 NECK RD WARD, MA 01830		

Facility Latitude:	40 45 12	Facility Longitude:	072 16 00
Facility Latitude:	42 46 33	Facility Longitude:	071 04 40
City Served:	Not Reported		
Treatment Class:	Treated	Population:	00000025

Violations information not reported.

13
ESE
1/2 - 1 Mile
Lower

FED USGS **USGS40000480548**

Org. Identifier:	USGS-MA		
Formal name:	USGS Massachusetts Water Science Center		
Monloc Identifier:	USGS-424626071044201		
Monloc name:	MA-HLX 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	42.7739793
Longitude:	-71.0778351	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	12.00
Vert measure units:	feet	Vertacc measure val:	.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	1936	Welldepth:	46
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

14
South **FED USGS** **USGS40000480524**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-MA		
Formal name:	USGS Massachusetts Water Science Center		
Monloc Identifier:	USGS-424609071051301		
Monloc name:	MA-HLX 31		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	42.7692571
Longitude:	-71.0864463	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	42.00
Vert measure units:	feet	Vertacc measure val:	.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	1972	Welldepth:	38
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

15
ESE **FED USGS** **USGS40000480550**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-MA		
Formal name:	USGS Massachusetts Water Science Center		
Monloc Identifier:	USGS-424627071043701		
Monloc name:	MA-HLB 30		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	42.7742571
Longitude:	-71.0764462	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1.00
Vert measure units:	feet	Vertacc measure val:	.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	1922	Welldepth:	22
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

A16
ENE
1/2 - 1 Mile
Higher

Site ID:	3-0003263	**AQUIFLOW**	**2546**
Groundwater Flow:	SW		
Water Table Depth:	Shallowest: 5.30 ft. Deepest: 7.92 ft.		
Date:	12/96		

A17
ENE
1/2 - 1 Mile
Higher

Site ID:	3-0003853	**AQUIFLOW**	**2549**
Groundwater Flow:	SW		
Water Table Depth:	Shallowest: 1.80 ft. Deepest: 6.22 ft.		
Date:	06/93		

18
ESE
1/2 - 1 Mile
Lower

FED USGS **USGS40000480543**

Org. Identifier:	USGS-MA		
Formal name:	USGS Massachusetts Water Science Center		
Monloc Identifier:	USGS-424622071043501		
Monloc name:	MA-HLB 31		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	42.7728682
Longitude:	-71.0758906	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	1922	Welldepth:	48
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

19
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000480512**

Org. Identifier:	USGS-MA		
Formal name:	USGS Massachusetts Water Science Center		
Monloc Identifier:	USGS-424601071053601		
Monloc name:	MA-HLX 30		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	42.7670349
Longitude:	-71.0928353	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	16.00
Vert measure units:	feet	Vertacc measure val:	.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	1972	Welldepth:	40
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

B20
SSW **FED USGS** **USGS40000480504**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-MA		
Formal name:	USGS Massachusetts Water Science Center		
Monloc Identifier:	USGS-424555071053301		
Monloc name:	MA-HLX 36		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	42.7653682
Longitude:	-71.092002	Sourcemap scale:	Not Reported
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	22.00
Vert measure units:	feet	Vertacc measure val:	.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	1972	Welldepth:	25
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

Map ID Direction Distance Elevation	Database	EDR ID Number
B21 **SSW** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000480498**

Org. Identifier:	USGS-MA		
Formal name:	USGS Massachusetts Water Science Center		
Monloc Identifier:	USGS-424552071053401		
Monloc name:	MA-HLX 35		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	42.7645349
Longitude:	-71.0922797	Sourcemap scale:	Not Reported
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	21.00
Vert measure units:	feet	Vertacc measure val:	.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	1972	Welldepth:	42
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

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22 **ESE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000480549**

Org. Identifier:	USGS-MA		
Formal name:	USGS Massachusetts Water Science Center		
Monloc Identifier:	USGS-424627071041101		
Monloc name:	MA-HLX 22		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	42.7742571
Longitude:	-71.0692238	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	25.00
Vert measure units:	feet	Vertacc measure val:	.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	1972	Welldepth:	28
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: MA Radon

Radon Test Results

County	% of sites>4 pCi/L	Median
ESSEX	36	2.8

Federal EPA Radon Zone for ESSEX County: 1

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 01830

Number of sites tested: 7

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.650 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	3.000 pCi/L	71%	29%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: MassDEP
Telephone: 617-292-5907

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Massachusetts Geographic Information System (MassGIS) Datalayers
Source: Executive Office of Environmental Affairs

Public Water Supply Database: The Public Water Supply datalayer contains the locations of public community surface and groundwater supply sources and public non-community supply sources as defined in 310 CMR 22.00.

OTHER STATE DATABASE INFORMATION

Areas of Critical Environmental Concern Datalayer: The Areas of Critical Environmental Concern (ACEC) datalayer shows the location of areas that have been designated ACECs by the Secretary of Environmental Affairs. ACEC designation requires greater environmental review of certain kinds of proposed development under state jurisdiction within the ACEC boundaries. The ACEC Program is administered by the Department of Environmental Management (DEM) on behalf of the Secretary of Environmental Affairs. The Massachusetts Coastal Zone Management (MCZM) Office managed the original Coastal ACEC Program from 1978 to 1993, and continues to play a key role in monitoring coastal ACECs. Procedures for ACEC designation and the general policies governing the effects of designation are contained in the ACEC regulations (301 CMR 12.00). The ACEC datalayer has been compiled by MCZM and DEM and includes both coastal and inland areas.

EPA Designated Sole Source Aquifers Datalayer: The Sole Source Aquifer datalayer was compiled by the Department of Environmental Protection (DEP) Division of Water Supply (DWS). Seven Sole Source Aquifers have been designated by the US Environmental Protection Agency (EPA) for Massachusetts. A Sole Source Aquifer (SSA) is an aquifer designated by US EPA as the sole or principal source of drinking water for a given aquifer service area; that is, an aquifer which is needed to supply 50% or more of the drinking water for that area and for which there are no reasonably available alternative sources should that aquifer become contaminated. The aquifers were defined by a EPA hydrogeologist.

Aquifers Datalayer: MassGIS produced an aquifer datalayer composed of 20 individual panels, generally based on the boundaries of the major drainage basins. Areas of high and medium yield were mapped. This datalayer includes polygon attribute coding to help in the identification of areas in which cleanup of hazardous waste sites must meet drinking water standards, as defined in the Massachusetts Contingency Plan (MCP) (310 CMR 40.00000).

Non-Potential Drinking Water Source Areas: Non-Potential Drinking Water Source Areas (NPDWSA) are regulatory in nature, representing one of many considerations used in determining the standards to which ground water must be cleaned in the event of a release of oil or hazardous material. NPDWSAs are not based on existing water quality and do not indicate poor ambient conditions.

DEP Approved Zone IIs Datalayer: The Department of Environmental Protection (DEP) approved Zone IIs datalayer was compiled by the DEP Division of Water Supply (DWS). The database contains 281 approved Zone IIs statewide. As stated in 310 CMR 22.02, a Zone II is "that area of an aquifer which contributes water to a well under the most severe pumping and recharge conditions that can be realistically anticipated (180 days of pumping at safe yield, with no recharge from precipitation.) It is bounded by the groundwater divides which result from pumping the well and by the contact of the aquifer with less permeable materials such as till or bedrock. In some cases, streams or lakes may act as recharge boundaries. In all cases, Zone IIs shall extend up gradient to its point of intersection with prevailing hydrogeologic boundaries (a groundwater flow divide, a contact with till or bedrock, or a recharge boundary)." These data are used in association with the Public Water Supplies datalayer. The following describes certain unique features of this association.

- Any proposed new well which will pump at least 100,000 gallons per day must have a Zone II delineation completed and approved by DEP prior to the well coming on line.
- Additionally, a new source may not be on-line yet, but other, older wells may fall within its Zone II boundary.
- Further, existing wells must have a Zone II delineated as a condition of receiving a water withdrawal permit under the Water Management Act.

RADON

State Database: MA Radon
Source: Department of Health
Telephone: 413-586-7525
Radon Test Results

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

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APPENDIX I

Geophysical Applications Incorporated, Geophysical Survey Report, Haffner's Car Wash, 284 Winter Street, Haverhill, MA, dated April 2015

Geophysical Survey Report
Haffner's Car Wash
284 Winter Street
Haverhill, Massachusetts

prepared for
ENVIRON
April 2015

215 Hopping Brook Road • Holliston • MA • 01746
508-429-2430 • FAX 508-429-0488

GEOPHYSICAL
APPLICATIONS
INCORPORATED

April 16, 2015

Mr. John Noble
ENVIRON
3 Carlisle Road
Westford, MA 01886

phone: 978-449-0333
fax: 978-449-0301

Subject: Geophysical Survey Report
Haffner's Car Wash
284 Winter Street
Haverhill, Massachusetts

Dear Mr. Noble:

Geophysical Applications, Inc. performed a geophysical survey throughout portions of the above-noted property, formerly a manufactured gas plant (MGP) site. The survey was designed to check for possible buried utilities and other shallow obstructions surrounding thirteen proposed boring and monitoring well locations. In addition, Environ wished to check for large buried structures related to the former manufactured gas plant if possible (foundation walls, concrete slabs, underground storage tanks (USTs), etc).

Fieldwork was conducted on March 31 and April 2, 2015. Survey area limits were defined by Environ personnel prior to data acquisition. Geophysical data was subsequently acquired throughout open and accessible areas bounded by a granite curb on the west and the concrete tank pad and the car wash building on the east. The large, landscaped island near the building's southwest corner was excluded from the survey with the exception of a small area surrounding proposed boring 11B. South of the island, data was collected as far south as possible, as permitted by snow piles, trees and fences.

Survey results were provided to Environ in sections via email as they were completed. This report represents a formal summary for your files.

The geophysical survey methods were ground penetrating radar (GPR) profiling and an electromagnetic terrain conductivity meter (EM31), augmented with a pipe and cable locator. The methods, limitations, and interpreted results of this survey are described below.

METHODS OF INVESTIGATION

Survey Control

A reference grid was established prior to data acquisition. The grid was marked on the ground surface with pink spray paint dots at ten-foot intervals. The grid was referenced by taped distance measurements to the building, curbs, tank pad, and other visible objects. An AutoCAD base map was created using field measurements gathered with fiberglass and metal tape measures.

The tank pad's west edge is located along station 90E. A section of the tank pad's south edge is located along station 280N. A brick wall from the former MGP is visible on the west side of the retaining wall near Winter Street. The northernmost point on this brick wall is located at approximately coordinate 2.1E/376.5N on our grid.

Ground Penetrating Radar

GPR profiling is based on the principle that materials with contrasting electrical properties reflect radar signals back to the ground surface. Metal or concrete objects such as pipes or conduits generally produce high-amplitude GPR reflections. Plotting observed reflections on a base map typically enables an interpreter to identify a large object's lateral extent, or a pipe's trend.

GPR data were recorded using GSSI model SIR-2000 radar instruments with 400-megahertz (MHz) antennas mounted on a three-wheeled cart or dragged behind the operator. Initial test data was acquired on the first day with both 400 MHz and 200 MHz antennas to determine which antenna would yield the most useable data at this site. The 400 MHz antenna produced better resolution of GPR targets with the same signal depth penetration and was utilized for the remainder of this survey.

Radar profiles were recorded continuously along perpendicular traverses located 5 feet apart. More closely-spaced traverses were acquired surrounding the pre-marked proposed boring locations. These profiles were displayed on a color monitor for immediate inspection and preliminary interpretation. GPR data were stored digitally and downloaded to a computer and CD-ROM for archival purposes. GPR traverse locations are shown on Figure 2.

The horizontal scale on each GPR record was determined by an encoder mounted on a three-wheeled cart or by the operator pressing a marker button as the antenna passed each 10-foot grid node. The vertical scale of radar cross sections recorded during this survey was 60 nanoseconds (equivalent to approximately 10 feet in depth). This time interval was selected to maximize depth penetration while maintaining satisfactory near-surface resolution of smaller objects. Note that GPR depth penetration is site-specific, and data recorded with any radar antenna may not penetrate the full extent of the selected time window.

EM61 Survey

A metal-locating survey was performed initially throughout accessible portions of the survey area. The survey was performed using a Geonics model EM61 MK2 instrument. This device includes backpack-mounted electronics, and two receiving coils mounted on a wheeled-cart pushed by the operator along parallel traverses.

The receiving coils measure weak electric currents induced in buried metal objects by the EM61 transmitter to a depth of approximately 4 to 8 feet. EM61 values are measured in millivolts, at the upper and lower receiving coils. The EM61 is designed to be most sensitive to objects located directly below the receiver coils. This helps the EM61 emphasize buried metal objects, and minimize the risk of mis-identifying aboveground metal objects adjacent to the traverse as possible buried objects.

A digital datalogger recorded EM61 data values at approximately 8-inch intervals along each survey traverse. Small blue crosses on Figure 1 indicate these data measurement stations along each traverse. Parallel traverses were positioned 2.5 feet apart, to help assure thorough survey coverage.

Data recorded during this survey was downloaded to a computer and contoured in the field using Surfer for Windows with a Kriging grid algorithm.

Pipe Locator

A RadioDetection model RD4000 pipe- and cable-locating receiver was utilized in the passive mode to identify pipes or conduits carrying an active electric current under load. Note that metal pipes other than electrical conduits can sometimes be detected with this method (e.g. water or steam pipes) if a nearby source of electrical current is present.

The RD4000 instrument was also utilized in the induced mode to trace additional inferred buried electrical conduits. This technique induces a weak electrical current in metallic pipes or cables. Current induction was achieved by placing the transmitter on the ground surface over an inferred conduit identified in the passive mode. Signals were subsequently traced with the instrument's handheld receiver.

SURVEY LIMITATIONS

GPR signal penetration is site specific, determined by dielectric properties of the materials through which GPR signals are propagating. GPR signal-penetration depths may be significantly reduced by concrete surfaces (both visible and buried), reinforcing steel, shallow or brackish groundwater, or electrically conductive materials (e.g. clay, ash, tar or residual de-icing salts). GPR signal penetration depths are noted in the Results section. Objects deeper than the GPR signal's maximum penetration depth remain undetected.

GPR-inferred objects' approximate depths are calculated by multiplying the vertical time scale values by a selected constant. If an object of known depth is present (e.g. an exposed pipe in a storm drain), the depth scale can be calibrated to that object. In the absence of an object of known depth an averaged constant is used based on published industry standards. Interpreted depths described in this report are therefore considered approximate. A constant of 6 nanoseconds per foot was used to calculate GPR reflector depths for this survey.

A buried pipe's diameter must increase approximately one inch for every foot below ground surface in order for the GPR technique to detect that pipe. For instance, on average, a pipe buried 10 feet below ground surface must be at least 10 inches in diameter to produce a recognizable GPR reflection. In addition, GPR reflections from small pipes may be masked by reflections from rocks or boulders (common in the Northeast, especially in filled areas) or buried debris.

Note that the shallowest buried object at any given location (i.e. closest to the ground surface) is most likely to be detected, and deeper objects directly below will be more difficult to detect. Therefore, if pipes are situated on top of one another, only the shallowest may be identified unless the deeper pipe is considerably wider.

GPR interpretations are subjective, based on identifying reflection patterns that may not uniquely represent a subsurface object. Profiling along perpendicular traverses helps determine the size and shape of buried objects. GPR interpretation is more subjective than most geophysical methods, and anomaly confirmation via test pits, borings, or other direct means is strongly recommended.

Varying a GPR antenna's speed along a survey traverse can cause slight errors in horizontal distance interpolations and inferred object positions. Distance interpolation errors were minimized during this survey by using a marked ten-foot grid and a survey wheel encoder.

GPR is most likely to detect concrete or metallic objects. PVC, plastic or vitreous clay pipes, or fiberglass tanks, are less likely to be detected with GPR.

Due to the 400 MHz antenna's physical size, GPR data cannot be collected within approximately one foot of any curb or other vertical obstruction that protrudes above the ground surface (e.g. a wall, fence, raised concrete slab, lamp post, etc.). In these areas, reflections visible on GPR records near the antenna's physical limits may actually represent side reflections from objects located up to several feet from the antenna.

Aboveground ferrous metal objects located within approximately 10 feet of a survey traverse, may adversely affect EM61 data values. Anomalies caused by buried conductive objects within those regions may be difficult to distinguish from anomalies caused by aboveground objects. Visible metal objects encountered at this site included chain link fences, lamp posts, catch basins, monitoring wells, a large sign, manholes, vacuum stations, reinforced concrete pads and a building.

Pipe- and cable-locating instruments work best when linear objects being traced are separated by some distance. Closely-spaced pipes or conduits are often perceived as one linear object by a pipe locator. In addition, both induced and passive currents can "jump" to other nearby metallic pipes or objects, including other conduits, drain pipes, water or steam lines or rebar. Nearby sources of electrical interference (e.g. transformers, running machinery, or electrical panels) can prevent the use of pipe locators in some instances. Note that the actual horizontal location of energized lines detected in the passive mode may be offset approximately 1 to 1.5 feet in either direction of a marked line on the ground surface.

RESULTS

As discussed above, an AutoCAD base map was created using field measurements referenced to our marked grid. Figure 1 shows EM61 data stations and contours. Figure 2 shows GPR traverse locations and geophysical interpretations. Figure 3 shows EM61 contours superimposed on the Figure 2 interpreted results. Depths to inferred objects are noted on the figures in units of feet below ground surface.

Environ personnel marked proposed boring locations on the ground surface with white paint. Black half-filled circle symbols represent these proposed locations on the figures. GPR data was examined closely in these locations, and boring locations were shifted as necessary. Bright green circle symbols represent our suggested boring locations.

EM61 data was contoured on site, and those contour maps were examined for anomalies large enough to possibly represent linear objects such as pipes or walls, USTs or other large buried metal objects. Note that EM61 contour maps reveal areas where buried metal exists, but do not yield detailed information on the shape or depth of the objects causing many of these anomalies. GPR profiling was performed to help produce that information.

EM61 contours are shown on Figures 1 and 3. Above-ground metal objects, including catch basins, monitoring wells, lamp posts, reinforced concrete pads, manholes, a large sign and vacuum stations caused numerous EM61 anomalies. A dumpster near coordinate 238E/154N caused a large EM anomaly. Fence sections just west of the dumpster and along the retaining wall south of station 110N also caused EM anomalies. EM values were cropped for the contour map selected for this figure to avoid a solid black appearance in these areas, and to allow these objects to be visible on the figures.

Green lines on the figures represent possible buried linear objects inferred from the EM61 data. All EM61 data channels were inspected at various contour intervals, therefore not all linear trends may be obvious on any given EM contour map. The east-west trending conduit near station 260N is also visible on the EM contour maps, however this object is represented on the figures with a red line, as established with the RD4000 pipe locator.

A fairly large contour interval (50-millivolts) was selected for the EM contour maps shown on the figures. The data indicate a large amount of buried metal on the site, especially in the northern section. The high EM values could obscure the smaller responses expected from buried pipes or other linear objects, especially at depth.

GPR recordings obtained during this survey were examined with GSSI's RADAN for Windows software for reflections indicating large or laterally-extensive objects including pipes, conduits and utilities. This software can enhance faint or small reflections typical of conduits, PVC or plastic pipes. Typically, pipes or large objects produce reflections that are visible on adjacent or intersecting traverses.

GPR signals penetrated between 0 and 1 foot below ground surface throughout most of the survey region; this is due to electrically conductive materials such as clay, residual deicing salts or ash. Yellow hachures represent this area on Figure 2. GPR signals penetrated between 2 and 5.5 feet throughout the remaining asphalt-paved areas. In the site's southernmost section, GPR signals penetrated up to 9 feet beneath the asphalt turn-around (southwest of the sign), and 6 to 7 feet beneath the soil and the concrete pad near the dumpster. Note that GPR data surrounding proposed borings 1 and 2 indicates that a significant amount of rubble may be present in those areas.

Blue lines on the figures represent locations where similar GPR reflections can be traced to adjacent traverses. These lines are dashed where the interpretation is less certain. Dashed lines may represent pipe sections or other linear objects such as wall remnants, fence posts, concrete rubble, a car axle, etc. Dashed lines could also represent reflections from the sloped side of a former trench or excavation, layering changes or fill boundaries, side reflections from large buried objects, or simply several discrete objects buried at similar depths.

An orange line represents the trend of an approximately 12-inch diameter pipe visible in a catch basin near coordinate 72.5E/265.5N. According to Haffner personnel, this pipe heads to the southwest corner of the tank pad where it turns, heading under the tank pad to connect to a roof drain inside the car wash building.

Many small, discrete reflections were identified during the GPR survey. Only the largest are indicated on the attached figures with magenta dots or bars. They may represent larger rocks, pipe segments, changes in subsurface layering, or other discrete buried objects.

Purple hachures and bars represent GPR reflections resembling possible buried flat surfaces such as concrete slabs, or vertical objects that resemble wall sections. Alternatively, these reflections may represent layering changes or other discrete buried objects.

Red hachures represent a possible buried underground storage tank (UST) approximately 2.5 feet deep. An EM61 anomaly is present in this location, indicating a significant amount of buried metal. GPR records in this area display reflections resembling a fairly wide, laterally-extensive object. Alternatively, the reflections may represent one or more large-diameter closely-spaced metal pipes or other linear metal object. This area is

located near a feature labeled Separation House on a plan map of the former MGP site provided by Environ.

As discussed above, the RadioDetection RD400 instrument was utilized in both the passive and induced modes throughout the survey area to look for underground conduits. Thin red lines represent the linear trends identified with this instrument. Red spray paint marks were placed on the ground surface along these alignments during the fieldwork.

Due to the reduced signal penetration depths that characterize most of the GPR data, few former MGP structures (as shown on the plan map provided) can be inferred from the data set. The linear EM61 anomaly trending from approximately coordinate 80E/260N toward 130E/202N may be located near the expected position of the east wall for the former Purifier House and Meter House. Due to its shape, the slightly curved linear anomaly between coordinates 82.5E/260N and 100E/272N may be associated with a former water well, however the EM anomaly is located slightly further west than would be expected.

* * * * *

Please call the undersigned at 508/429-2430 if you have questions regarding our report. We appreciate this opportunity to provide geophysical services to Environ and we welcome inquiries regarding this project or future surveys.

Regards,

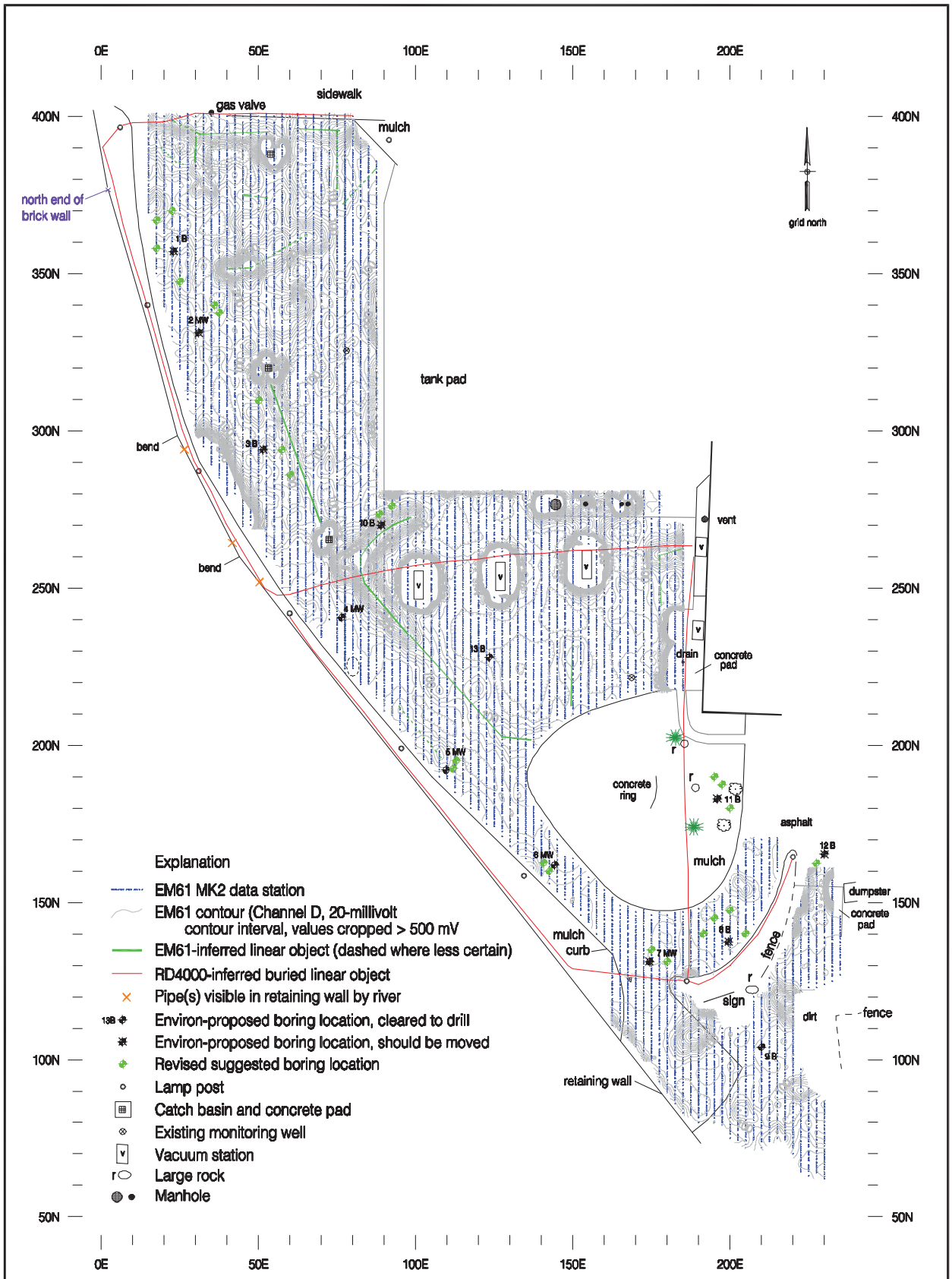
GEOPHYSICAL APPLICATIONS, INC.

C.V. Sullivan
Charlene V. Sullivan
Geophysicist

P. Giger cvs
Peter Giger
Geophysicist

M. Blackey
Mark E. Blackey
Principal and Geophysicist

1151485 report.doc

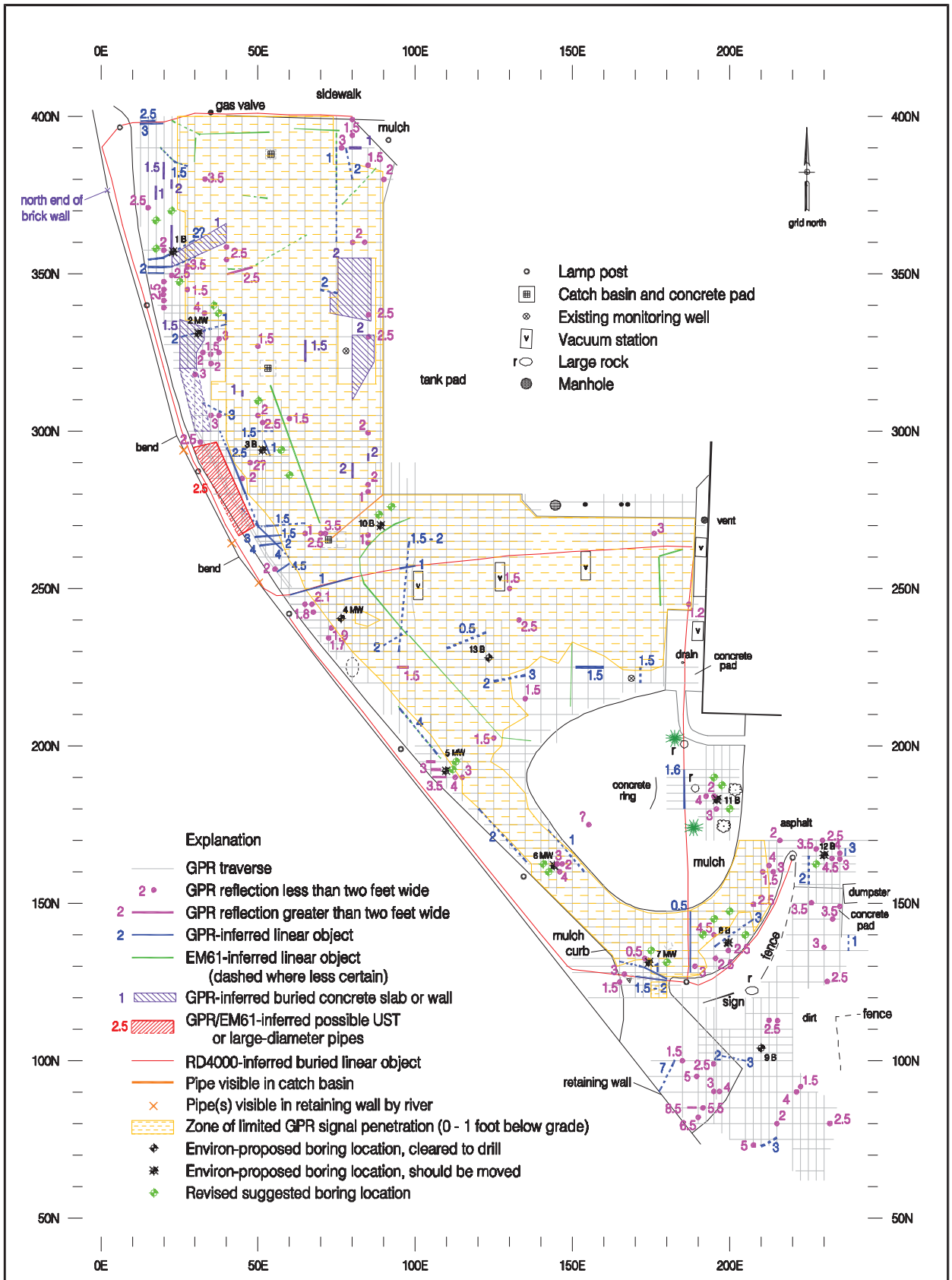


0 15 30
feet

1151485.dwg
last modified 4/16/15

GEOPHYSICAL APPLICATIONS INCORPORATED

Figure 1
EM61 MK2 Data Stations and Contours
Haffner's Car Wash
284 Winter Street
Haverhill, Massachusetts
prepared for
ENVIRON



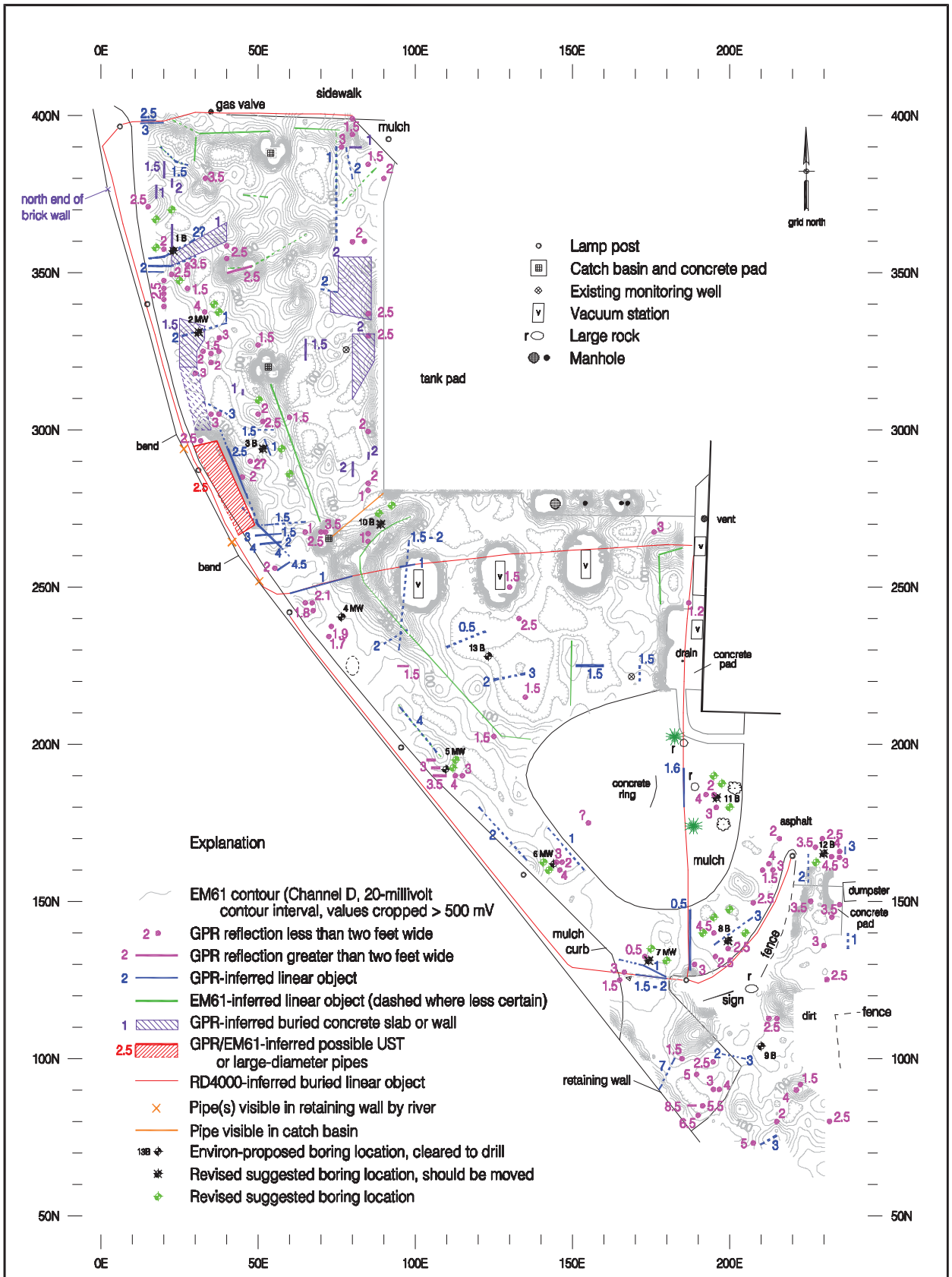
0 15 30
feet

Depths noted are in units of feet below ground surface

1161486.dwg
last modified 4/16/15

GEOPHYSICAL APPLICATIONS INCORPORATED

Figure 2
GPR Traverses and Interpretations
Haffner's Car Wash
284 Winter Street
Haverhill, Massachusetts
prepared for
ENVIRON



Depths noted are in units of feet below ground surface

1161485.dwg
last modified 4/16/15

GEOPHYSICAL APPLICATIONS INCORPORATED

Figure 3
GPR Interpretations and EM61 Contours
Haffner's Car Wash
284 Winter Street
Haverhill, Massachusetts
prepared for
ENVIRON

APPENDIX J

Soil Boring/ Monitoring Wells Logs

ENVIRON
3 CARLISLE ROAD, SUITE 210
WESTFORD, MASSACHUSETTS 01886
phone (978) 449-0300 *fax* (978) 449-0301

SOIL BORING LOG

BORING NO: ENV-1MW

PROJECT NAME: Haffner Property
PROJECT NUMBER: 08-36060B
PROJECT LOCATION: 284 Winter St., Haverhill, Massachusetts
FIELD INSPECTOR: Michael Chomin
PROJECT MANAGER: John Noble
DATE: 4/28/2014

DRILLING CO: New England Geotech
FOREMAN: Maynor Mendoza
OTHERS: Kyle Hoffman
RIG TYPE: Geoprobe 6620DT
SAMPLING METHOD: Geoprobe Macro Core equipped with 2" disposable acetate sleeves
TOTAL DEPTH: 20 ft below ground surface (bgs)
BOREHOLE DIAMETER: 2-3/4 inches
ORGANIC VAPOR EQUIPMENT: MiniRae 3000 PID with an 10.6 eV lamp calibrated to 100 ppmv isobutylene standard span gas

BORING LOCATION/COMMENTS:
Northwest portion of Property

Depth	Sample Data: Sample No.	Depth (Feet)	Penetration/ Recovery (inches)	Blows per 6 Inches	PID/FID (TOVs)	Sample Description	Strata Change
	SS-1	0-5	60/36	N/A	1.4	(9") ASPHALT. (6") Brown, fine to coarse SAND, little fine to coarse gravel, trace silt, damp.	Asphalt
					1.0	(21") Dark brown to brown, Silty fine SAND, 2" organic layer near top (17-19"), wet to moist.	Sand with Wood Fragments, Brick and Coal Fragments (FILL)
5	SS-2	5-10	60/33	N/A	0.7	(11") Dark brown, fine to medium SAND and WOOD FRAGMENTS, some silt, trace coarse gravel, damp.	
					0.7	(19") Blackish-gray, fine to coarse SAND and fine GRAVEL, little silt, brick, damp. (3") Gray-brown, fine SAND, little silt, damp.	
10	SS-3	10-15	60/19	N/A	1.5	(6") Similar to previous, except tan. (13") Black-gray, medium to coarse SAND, little silt, coal fragments, slight mothball-like odor, moist to wet.	
					29.2		
15	SS-4	15-20	60/16	N/A	727 (LAB)	(7") Black, medium to coarse SAND, little silt, wood fragments, strong mothball-like odor, with, with sheen.	
					662	(9") Gray-brown fine SAND, little silt, strong mothball-like odor, wet.	Sand
20						Test boring terminated at 20' bgs	
25							
30							

Equipment Installed

- Concrete (0-1')
- 1.5" PVC Riser
- Sand (1-8")
- Bentonite (8-9')
- 1.5" Pre-Packed PVC Screen
- Filter Sand (9-21')

NOTES:

1. Well Construction:
   - 0-11': 1.5-inch Inside Diameter Sch-40 PVC riser
   - 11-21': 1.5-inch Inside Diameter Sch-40 0.010" machine-slotted PVC well screen with "pre-pack" filter in stainless steel mesh.
   - 0-1': Concrete Surface Seal
   - 1-8': Silica Sand
   - 8-9': Bentonite
   - 9-21': Silica Filter Sand
2. Monitoring well finished with a water-tight flush-mounted aluminum road box founded in a concrete surface seal.
3. Soil samples collected for laboratory analyses at 0930 from 15-17.5' bgs (MADEP Methods EPH-04-1 and VPH-04-1, Petroleum Hydrocarbon ID/TPH, Alkylated PAHs and PIANO).

ENVIRON
3 CARLISLE ROAD, SUITE 210
WESTFORD, MASSACHUSETTS 01886
phone (978) 449-0300 *fax* (978) 449-0301

SOIL BORING LOG

BORING NO: ENV-2B

PROJECT NAME: Haffner Property
PROJECT NUMBER: 08-36060B
PROJECT LOCATION: 284 Winter St., Haverhill, Massachusetts
FIELD INSPECTOR: Michael Chomin
PROJECT MANAGER: John Noble
DATE: 4/28/2014

DRILLING CO: New England Geotech
FOREMAN: Maynor Mendoza
OTHERS: Kyle Hoffman
RIG TYPE: Geoprobe 6620DT
SAMPLING METHOD: Geoprobe Macro Core equipped with 2" disposable acetate sleeves
TOTAL DEPTH: 6.5 ft below ground surface (bgs)
BOREHOLE DIAMETER: 2-3/4 inches
ORGANIC VAPOR EQUIPMENT: MiniRae 3000 PID with an 10.6 eV lamp calibrated to 100 ppmv isobutylene standard span gas

BORING LOCATION/COMMENTS:
Northwest portion of Property - S of ENV-1MW

Depth	Sample Data: Sample No.	Depth (Feet)	Penetration/ Recovery (inches)	Blows per 6 Inches	PID/FID (TOVs)	Sample Description	Strata Change	Equipment Installed
	SS-1	0-5	60/48	N/A	1.0	(9") ASPHALT. (39") Brown to dark brown, fine to medium SAND, little fine to coarse gravel, trace silt, damp.	Asphalt	No Equipment Installed
					1.2		Sand (FILL)	
5	SS-2	5-6.5	18/18	N/A	10.3 (LAB)	(9") Similar to previous, damp to moist. (9") Dark brown to blackish, Silty fine SAND, slight decaying petroleum-like odor, wood fragments on bottom, wet.		
						Refusal encountered at 6.5' bgs		
10								
15								
20								
25								
30								

NOTES:
1. No monitoring well installed at this location.
2. Refusal encountered in apparent concrete at 6.5' bgs for 3 boring attempts (a, b, c).
3. Soil samples collected for laboratory analyses at 1000 from 5-6.5' bgs (MADEP Methods EPH-04-1 and VPH-04-1).

ENVIRON
3 CARLISLE ROAD, SUITE 210
WESTFORD, MASSACHUSETTS 01886
phone (978) 449-0300 *fax* (978) 449-0301

SOIL BORING LOG

BORING NO: ENV-3MW

PROJECT NAME: Haffner Property
PROJECT NUMBER: 08-36060B
PROJECT LOCATION: 284 Winter St., Haverhill, Massachusetts
FIELD INSPECTOR: Michael Chomin
PROJECT MANAGER: John Noble
DATE: 4/28/2014

DRILLING CO: New England Geotech
FOREMAN: Maynor Mendoza
OTHERS: Kyle Hoffman
RIG TYPE: Geoprobe 6620DT
SAMPLING METHOD: Geoprobe Macro Core equipped with 2" disposable acetate sleeves
TOTAL DEPTH: 17.5 ft below ground surface (bgs)
BOREHOLE DIAMETER: 2-3/4 inches
ORGANIC VAPOR EQUIPMENT: MiniRae 3000 PID with an 10.6 eV lamp calibrated to 100 ppmv isobutylene standard span gas

BORING LOCATION/COMMENTS:
East of Historic Underground Tank Identified as 8,500-gal. Tar Cooker on Western Portion of Property

Depth	Sample Data: Sample No.	Depth (Feet)	Penetration/ Recovery (inches)	Blows per 6 Inches	PID/FID (TOVs)	Sample Description	Strata Change
	SS-1	0-5	60/48	N/A	5.3	(8") ASPHALT. (11") Brown, medium to coarse SAND, little fine to coarse gravel, trace silt, damp. (2") BRICK.	Asphalt
					5.0	(10") Dark brown, SILT and WOOD FRAGMENTS, damp. (17") Brown to orange-brown, fine SAND, little silt, brick, damp.	Sand with Wood Fragments, Brick and Coal Fragments (FILL)
5	SS-2	5-10	60/43	N/A	3.5	(39") Orange-brown to brown to orange-brown, fine to medium SAND, little fine to coarse gravel, little silt, coal fragments, brick, damp.	
					11.6	(4") Black, Silty fine SAND, with coal fragments, mothball-like odor, damp.	
					179		
10	SS-3	10-15	60/36	N/A	377	(16") Dark brown to black, fine to medium SAND, little silt, little fine to medium gravel, brick, mothball-like odor, damp.	
					1,079 (LAB)	(20") Black, Silty fine SAND, brick, strong mothball/petroleum-like odor, moist to wet, with oily sheen.	
15	SS-4	15-17.5	30/10	N/A	861	(10") Similar to previous, oily residue in sleeve, wet.	
						Refusal encountered at 17.5' bgs	
20							
25							

Equipment Installed:
- 1.5" PVC Riser
- 1.5" Pre-Packed PVC Screen
- Concrete (0-1')
- Sand (1-7")
- Bentonite (7-8')
- Filter Sand (8-20')

NOTES:
1. Well Construction:
   - 0-10': 1.5-inch Inside Diameter Sch-40 PVC riser
   - 10-20': 1.5-inch Inside Diameter Sch-40 0.010" machine-slotted PVC well screen with "pre-pack" filter in stainless steel mesh.
   - 0-1': Concrete Surface Seal
   - 1-7': Silica Sand
   - 7-8': Bentonite
   - 8-20': Silica Filter Sand
2. Monitoring well finished with a water-tight flush-mounted aluminum road box founded in a concrete surface seal.
3. Soil samples collected for laboratory analyses at 1100 from 12.5-15' bgs (MADEP Methods EPH-04-1 and VPH-04-1, Petroleum Hydrocarbon ID/TPH, Alkylated PAHs and PIANO).

ENVIRON
3 CARLISLE ROAD, SUITE 210
WESTFORD, MASSACHUSETTS 01886
phone (978) 449-0300 *fax* (978) 449-0301

SOIL BORING LOG

BORING NO: ENV-4B

PROJECT NAME: Haffner Property
PROJECT NUMBER: 08-36060B
PROJECT LOCATION: 284 Winter St., Haverhill, Massachusetts
FIELD INSPECTOR: Michael Chomin
PROJECT MANAGER: John Noble
DATE: 4/28/2014

DRILLING CO: New England Geotech
FOREMAN: Maynor Mendoza
OTHERS: Kyle Hoffman
RIG TYPE: Geoprobe 6620DT
SAMPLING METHOD: Geoprobe Macro Core equipped with 2" disposable acetate sleeves
TOTAL DEPTH: 6.5 ft below ground surface (bgs)
BOREHOLE DIAMETER: 2-3/4 inches
ORGANIC VAPOR EQUIPMENT: MiniRae 3000 PID with an 10.6 eV lamp calibrated to 100 ppmv isobutylene standard span gas

BORING LOCATION/COMMENTS:
Western portion of Property - SSE of ENV-3MW

Depth	Sample Data: Sample No.	Depth (Feet)	Penetration/ Recovery (inches)	Blows per 6 Inches	PID/FID (TOVs)	Sample Description	Strata Change	Equipment Installed
	SS-1	0-5	60/54	N/A	84.3	(6") ASPHALT. (16") Brown, medium to coarse SAND, little fine to medium gravel, trace silt, damp. (9") Black, Silty fine SAND, with apparent tar, brick, mothball-like odor, damp. (23") Brown, Silty fine SAND, concrete 33-38", coal and brick 45-54", damp.	Asphalt Sand with Concrete, Brick & Coal Fragments (FILL)	No Equipment Installed
					(LAB) 34.8			
5	SS-2	5-6.5	18/20	N/A	8.0	(2") Similar to previous, damp. (3") Pulverized CONCRETE. (12") Brown, Silty fine SAND, brick, coal, damp. (3") Pulverized CONCRETE.		
						Refusal encountered at 6.5' bgs		
10								
15								
20								
25								
30								

NOTES:
1. No monitoring well installed at this location.
2. Refusal encountered in apparent concrete at 6.5' bgs for 3 boring attempts (a, b, c).
3. Soil samples collected for laboratory analyses at 1142 from 2.5-3.5' bgs (MADEP Methods EPH-04-1 and VPH-04-1).

ENVIRON
3 CARLISLE ROAD, SUITE 210
WESTFORD, MASSACHUSETTS 01886
phone (978) 449-0300 *fax* (978) 449-0301

SOIL BORING LOG

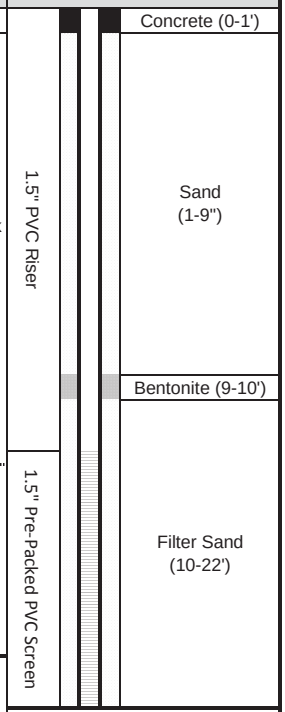
BORING NO: ENV-5MW

PROJECT NAME: Haffner Property
PROJECT NUMBER: 08-36060B
PROJECT LOCATION: 284 Winter St., Haverhill, Massachusetts
FIELD INSPECTOR: Michael Chomin
PROJECT MANAGER: John Noble
DATE: 4/27/2014

DRILLING CO: New England Geotech
FOREMAN: Maynor Mendoza
OTHERS: Kyle Hoffman
RIG TYPE: Geoprobe 6620DT
SAMPLING METHOD: Geoprobe Macro Core equipped with 2" disposable acetate sleeves
TOTAL DEPTH: 20 ft below ground surface (bgs)
BOREHOLE DIAMETER: 2-3/4 inches
ORGANIC VAPOR EQUIPMENT: MiniRae 3000 PID with an 10.6 eV lamp calibrated to 100 ppmv isobutylene standard span gas

BORING LOCATION/COMMENTS:
Southwest portion of Property

Depth	Sample Data: Sample No.	Depth (Feet)	Penetration/ Recovery (inches)	Blows per 6 Inches	PID/FID (TOVs)	Sample Description	Strata Change
	SS-1	0-2	24/19	N/A	31.3	(4") ASPHALT. (5") Black, fine to medium SAND, little to some gravel, slight odor (indistinct), dry. (4") Brown, fine to medium SAND, little fine to coarse gravel, slight odor, dry. (6") Black, Silty fine SAND, with flaky wood fragments, mothball-like odor, dry.	Asphalt
	SS-2	2-5	36/36	N/A	4.9 7.4	(2") Pulverized CONCRETE. (34") Brown fine to medium SAND with black areas interspersed, brick, bottom 8" blackish with apparent coal fragments, damp.	Sand with Concrete, Brick and Coal Fragments (FILL)
5	SS-2	5-10	60/20	N/A	5.9	(4") Pulverized CONCRETE, dry. (2") Black, Silty fine SAND, odor (indistinct), damp. (3") Pulverized CONCRETE, dry. (11") Brown, fine SAND, little silt, trace fine to medium gravel, damp.	
10	SS-3	10-15	60/36	N/A	10.8 965 (LAB)	(17") Brown, fine to medium SAND, some fine to coarse gravel, brick, trace (+) silt, damp. (19") Gray-black, silty fine SAND, mothball-like odor, damp to moist.	
15	SS-4	15-20	60/42	N/A	858 766	(42") Gray-black, Silty fine SAND, strong mothball-like odor, wet, bottom 6" gray, damp.	Sand
20						Test boring terminated at 20' bgs	
25							
30							



NOTES:
1. Well Construction:
   - 0-12': 1.5-inch Inside Diameter Sch-40 PVC riser
   - 12-22': 1.5-inch Inside Diameter Sch-40 0.010" machine-slotted PVC well screen with "pre-pack" filter in stainless steel mesh.
   - 0-1': Concrete Surface Seal
   - 1-9': Silica Sand
   - 9-10': Bentonite
   - 10-22': Silica Filter Sand
2. Monitoring well finished with a water-tight flush-mounted aluminum road box founded in a concrete surface seal.
3. Soil samples collected for laboratory analyses at 0956 from 12.5-15' bgs (MADEP Methods EPH-04-1 and VPH-04-1, Petroleum Hydrocarbon ID/TPH, Alkylated PAHs and PIANO).

ENVIRON
3 CARLISLE ROAD, SUITE 210
WESTFORD, MASSACHUSETTS 01886
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SOIL BORING LOG

BORING NO: ENV-6B

PROJECT NAME: Haffner Property
PROJECT NUMBER: 08-36060B
PROJECT LOCATION: 284 Winter St., Haverhill, Massachusetts
FIELD INSPECTOR: Michael Chomin
PROJECT MANAGER: John Noble
DATE: 4/27/2014

DRILLING CO: New England Geotech
FOREMAN: Maynor Mendoza
OTHERS: Kyle Hoffman
RIG TYPE: Geoprobe 6620DT
SAMPLING METHOD: Geoprobe Macro Core equipped with 2" disposable acetate sleeves
TOTAL DEPTH: 7 ft below ground surface (bgs)
BOREHOLE DIAMETER: 2-3/4 inches
ORGANIC VAPOR EQUIPMENT: MiniRae 3000 PID with an 10.6 eV lamp calibrated to 100 ppmv isobutylene standard span gas

BORING LOCATION/COMMENTS:
Southwest portion of Property - Car Wash Driveway

Depth	Sample Data: Sample No.	Depth (Feet)	Penetration/ Recovery (inches)	Blows per 6 Inches	PID/FID (TOVs)	Sample Description	Strata Change	Equipment Installed
	SS-1	0-5	60/39	N/A	0.9	(5") ASPHALT. (9") Brown, fine to medium SAND, damp. (22") Gray-brown, Silty fine SAND, damp. (3") Black, Silty fine SAND, brick, mothball-like odor, moist.	Asphalt	No Equipment Installed
					17.3		Sand with Brick and Concrete (FILL)	
5	SS-2	5-7	24/17	N/A	114 (LAB)	(14") Brick, with gray-black layers at 6-8" and 11-14", oily, with petroleum-like odor in 11-14" layer. (3") Brown, fine to medium SAND to pulverized CONCRETE, damp.		
						Refusal encountered at 7' bgs		
10								
15								
20								
25								
30								

NOTES:
1. No monitoring well installed at this location.
2. Refusal encountered in apparent concrete at 7' bgs for 2 boring attempts (a, b).
3. Soil samples collected for laboratory analyses at 1100 from 6-7' bgs (MADEP Methods EPH-04-1 and VPH-04-1).

ENVIRON
3 CARLISLE ROAD, SUITE 210
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SOIL BORING LOG

BORING NO: ENV-7B

PROJECT NAME: Haffner Property
PROJECT NUMBER: 08-36060B
PROJECT LOCATION: 284 Winter St., Haverhill, Massachusetts
FIELD INSPECTOR: Michael Chomin
PROJECT MANAGER: John Noble
DATE: 4/27/2014

DRILLING CO: New England Geotech
FOREMAN: Maynor Mendoza
OTHERS: Kyle Hoffman
RIG TYPE: Geoprobe 6620DT
SAMPLING METHOD: Geoprobe Macro Core equipped with 2" disposable acetate sleeves
TOTAL DEPTH: 11 ft below ground surface (bgs)
BOREHOLE DIAMETER: 2-3/4 inches
ORGANIC VAPOR EQUIPMENT: MiniRae 3000 PID with an 10.6 eV lamp calibrated to 100 ppmv isobutylene standard span gas

BORING LOCATION/COMMENTS:
Southern portion of Property - Car Wash Driveway

Depth	Sample Data: Sample No.	Depth (Feet)	Penetration/ Recovery (inches)	Blows per 6 Inches	PID/FID (TOVs)	Sample Description	Strata Change	Equipment Installed
	SS-1	0-5	60/46	N/A	9.3	(8") ASPHALT. (38") Brown to gray-brown, with black lenses interspersed, Silty fine SAND, brick in bottom 6", slight mothball-like odor, damp.	Asphalt	No Equipment Installed
					98.8		Sand with Brick, Concrete and Tar (FILL)	
5	SS-2	5-10	60/50	N/A	83.0	(10") Gray-brown, Silty fine SAND, brick, slight mothball-like odor, damp. (26") Gray-brown, Silty fine SAND, very slight mothball-like odor, damp. (10") Blackish, Silty fine SAND with mothball-like odor, tar-like fragment 42-45", damp. (4") Gray-brown, fine to medium SAND, damp.		
					116			
10	SS-3	10-11	12/17	N/A	210 (LAB)	(5") Gray-brown to black, Silty fine SAND, slight mothball-like odor, damp. (2") Pulverized CONCRETE, dry. (10") Tan to black, Silty fine to medium SAND, brick, mothball-like odor, damp.		
						Refusal encountered at 11' bgs		
15								
20								
25								
30								

NOTES:
1. No monitoring well installed at this location.
2. Refusal encountered at 11' bgs for 2 boring attempts (a, b).
3. Soil samples collected for laboratory analyses at 1145 from 10-11' bgs (MADEP Methods EPH-04-1 and VPH-04-1). Duplicate sample collected.

ENVIRON
3 CARLISLE ROAD, SUITE 210
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SOIL BORING LOG

BORING NO: ENV-8MW

PROJECT NAME: Haffner Property
PROJECT NUMBER: 08-36060B
PROJECT LOCATION: 284 Winter St., Haverhill, Massachusetts
FIELD INSPECTOR: Michael Chomin
PROJECT MANAGER: John Noble
DATE: 4/27/2014

DRILLING CO: New England Geotech
FOREMAN: Maynor Mendoza
OTHERS: Kyle Hoffman
RIG TYPE: Geoprobe 6620DT
SAMPLING METHOD: Geoprobe Macro Core equipped with 2" disposable acetate sleeves
TOTAL DEPTH: 20 ft below ground surface (bgs)
BOREHOLE DIAMETER: 2-3/4 inches
ORGANIC VAPOR EQUIPMENT: MiniRae 3000 PID with an 10.6 eV lamp calibrated to 100 ppmv isobutylene standard span gas

BORING LOCATION/COMMENTS:
Southern portion of Property - Car Wash Driveway E of ENV-7B

Depth	Sample Data: Sample No.	Depth (Feet)	Penetration/ Recovery (inches)	Blows per 6 Inches	PID/FID (TOVs)	Sample Description	Strata Change	Equipment Installed
	SS-1	0-5	60/46	N/A	25.9	(8") ASPHALT. (7") Brown, fine to medium SAND, trace silt, damp. (31") Gray-brown, Silty fine SAND, occasional clay layers, pulverized concrete 28-29", black layers 31-33", slight mothball-like odor, damp.	Asphalt	Concrete (0-1')
					67.6		Sand with Brick, Concrete and Tar (FILL)	Sand (1-7")
5	SS-2A[3]	5-8	36/29	N/A	62.2/24.4	**SS-2A:** (6") Similar to previous, damp. (8") BRICK, damp. (15") Black-stained, brown Silty fine SAND, petroleum-like odor, damp to moist. **SS-2B:** (14") Gray-brown/black, Silty fine to medium SAND, trace fine gravel, slight mothball-like odor, damp. (4") Apparent tar fragment. (18" Black, Silty fine SAND, trace fine gravel, wood fragments, strong petroleum/mothball-like odor, damp to moist.		1.5" PVC Riser
	SS-2B[3]	5-10	60/36	N/A				Bentonite (7-8')
					410/249			Filter Sand (8-20')
10	SS-3	10-15	60/29	N/A	782	(14") Similar to previous, moist. (15") Gray-brown, Silty fine SAND with occasional black streaks, petroleum/mothball-like odor, moist to wet with apparent sheen.	Sand	1.5" Pre-Packed PVC Screen
					1,129 (LAB)			
15	SS-4	15-20	60/34	N/A	1,144	(21") Gray-brown, Silty fine SAND strong petroleum-like odor, wet, with sheen. (11") Black, fine to medium SAND, little silt, strong petroleum-like odor, wet. (2") Gray-brown, Silty fine SAND, moist, petroleum-like odor		
					968			
20						Test boring terminated at 20' bgs		
25								

NOTES:
1. Well Construction:
   - 0-10': 1.5-inch Inside Diameter Sch-40 PVC riser
   - 10-20': 1.5-inch Inside Diameter Sch-40 0.010" machine-slotted PVC well screen with "pre-pack" filter in stainless steel mesh.
   - 0-1': Concrete Surface Seal
   - 1-7': Silica Sand
   - 7-8': Bentonite
   - 8-20': Silica Filter Sand
2. Monitoring well finished with a water-tight flush-mounted aluminum road box founded in a concrete surface seal.
3. Two borings attempts completed; refusal was encountered at 8' bgs at the first boring location, and second location was shifted 3' to the west (a, b).
4. Soil samples collected for laboratory analyses at 1445 from 12.5-15' bgs (MADEP Methods EPH-04-1 and VPH-04-1, Petroleum Hydrocarbon ID/TPH, Alkylated PAHs and PIANO).

ENVIRON
3 CARLISLE ROAD, SUITE 210
WESTFORD, MASSACHUSETTS 01886
phone (978) 449-0300 *fax* (978) 449-0301

SOIL BORING LOG

BORING NO: ENV-9MW

PROJECT NAME: Haffner Property
PROJECT NUMBER: 08-36060B
PROJECT LOCATION: 284 Winter St., Haverhill, Massachusetts
FIELD INSPECTOR: Michael Chomin
PROJECT MANAGER: John Noble
DATE: 4/27/2014

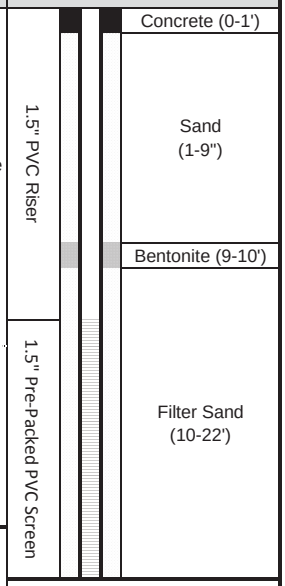
DRILLING CO: New England Geotech
FOREMAN: Maynor Mendoza
OTHERS: Kyle Hoffman
RIG TYPE: Geoprobe 6620DT
SAMPLING METHOD: Geoprobe Macro Core equipped with 2" disposable acetate sleeves
TOTAL DEPTH: 20 ft below ground surface (bgs)
BOREHOLE DIAMETER: 2-3/4 inches
ORGANIC VAPOR EQUIPMENT: MiniRae 3000 PID with an 10.6 eV lamp calibrated to 100 ppmv isobutylene standard span gas

BORING LOCATION/COMMENTS:

Southernmost portion of Property in Grassy Area

Depth	Sample Data: Sample No.	Depth (Feet)	Penetration/ Recovery (inches)	Blows per 6 Inches	PID/FID (TOVs)	Sample Description	Strata Change
	SS-1	0-5	60/51	N/A	26.6	(28") Olive-brown, Silty fine SAND, damp, bottom 4" gray-black with slight mothball-like odor.	Sand with Brick, Concrete and Tar (FILL)
					82.7	(23") Gray-black, Silty fine to medium SAND, brick, mothball-like odor, apparent tar fragments in bottom 6", damp.	
5	SS-2	5-10	60/40	N/A	116	(17") Gray-black, Silty fine SAND, brick from 10-12", mothball-like odor, damp. (16") Pulverized concrete, dry.	
					105	(7") Black, Silty fine SAND, brick, damp.	
10	SS-3	10-15	60/32	N/A	833 (LAB)	(18") Black, Silty fine SAND, apparent tar fragment from 12-14", mothball-like odor, damp. (14") Dark gray-brown, Silty fine SAND, mothball-like odor, damp to moist.	
					1,759 (LAB)		
15	SS-4	15-20	60/56	N/A	1,312	(18") Blow-in, damp. (26") Dark gray-brown, Silty fine SAND, strong petroleum-like odor, damp to wet.	Sand
					1,084	(12") Gray-black, fine SAND, trace silt, strong petroleum-like odor, wet, sheen in sleeve.	
20						Test boring terminated at 20' bgs	
25							
30							

Equipment Installed:



NOTES:

1. Well Construction:
   - 0-12': 1.5-inch Inside Diameter Sch-40 PVC riser
   - 12-22': 1.5-inch Inside Diameter Sch-40 0.010" machine-slotted PVC well screen with "pre-pack" filter in stainless steel mesh.
   - 0-1': Concrete Surface Seal
   - 1-9': Silica Sand
   - 9-10': Bentonite
   - 10-22': Silica Filter Sand
2. Monitoring well finished with a water-tight flush-mounted aluminum road box founded in a concrete surface seal.
3. Soil samples collected for laboratory analyses at 1250 from 12.5-15' bgs (MADEP Methods EPH-04-1 and VPH-04-1, and PIANO).
4. Tar fragment sample collected for laboratory analysis at 1240 from 10-12.5' (Petroleum Hydrocarbon ID/TPH and Alkylated PAHs).

ENVIRON
3 CARLISLE ROAD, SUITE 210
WESTFORD, MASSACHUSETTS 01886
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SOIL BORING LOG

BORING NO: ENV-10B

PROJECT NAME: Haffner Property
PROJECT NUMBER: 08-36060B
PROJECT LOCATION: 284 Winter St., Haverhill, Massachusetts
FIELD INSPECTOR: Michael Chomin
PROJECT MANAGER: John Noble
DATE: 4/28/2014

DRILLING CO: New England Geotech
FOREMAN: Maynor Mendoza
OTHERS: Kyle Hoffman
RIG TYPE: Geoprobe 6620DT
SAMPLING METHOD: Geoprobe Macro Core equipped with 2" disposable acetate sleeves
TOTAL DEPTH: 4 ft below ground surface (bgs)
BOREHOLE DIAMETER: 2-3/4 inches
ORGANIC VAPOR EQUIPMENT: MiniRae 3000 PID with an 10.6 eV lamp calibrated to 100 ppmv isobutylene standard span gas

BORING LOCATION/COMMENTS:

Western portion of Property - NNE of ENV-4B

Depth	Sample Data: Sample No.	Depth (Feet)	Penetration/ Recovery (inches)	Blows per 6 Inches	PID/FID (TOVs)	Sample Description	Strata Change	Equipment Installed
	SS-1	0-4	48/36	N/A	1.6 (LAB)	(9") ASPHALT.	Asphalt	No Equipment Installed
					1.3	(22") Gray-brown, fine to medium SAND, little medium to coarse gravel, trace silt, damp. (5") Pulverized CONCRETE.	Sand and Concrete (FILL)	
						Refusal encountered at 4.0' bgs		
5								
10								
15								
20								
25								
30								

NOTES:
1. No monitoring well installed at this location.
2. Refusal encountered in apparent concrete at 4.0' bgs for 3 boring attempts (a, b, c).
3. Soil samples collected for laboratory analyses at 1230 from 0-2.5' bgs (MADEP Methods EPH-04-1 and VPH-04-1).

ENVIRON
3 CARLISLE ROAD, SUITE 210
WESTFORD, MASSACHUSETTS 01886
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SOIL BORING LOG

BORING NO: ENV-11B

PROJECT NAME: Haffner Property
PROJECT NUMBER: 08-36060B
PROJECT LOCATION: 284 Winter St., Haverhill, Massachusetts
FIELD INSPECTOR: Michael Chomin
PROJECT MANAGER: John Noble
DATE: 4/27/2014

DRILLING CO: New England Geotech
FOREMAN: Maynor Mendoza
OTHERS: Kyle Hoffman
RIG TYPE: Geoprobe 6620DT
SAMPLING METHOD: Geoprobe Macro Core equipped with 2" disposable acetate sleeves
TOTAL DEPTH: 20 ft below ground surface (bgs)
BOREHOLE DIAMETER: 2-3/4 inches
ORGANIC VAPOR EQUIPMENT: MiniRae 3000 PID with an 10.6 eV lamp calibrated to 100 ppmv isobutylene standard span gas

BORING LOCATION/COMMENTS:
South-southwest of Car Wash in Landscaped Island

Depth	Sample Data: Sample No.	Depth (Feet)	Penetration/ Recovery (inches)	Blows per 6 Inches	PID/FID (TOVs)	Sample Description	Strata Change	Equipment Installed
	SS-1	0-5	60/38	N/A	157 124	(2") MULCH. (6") Brown, fine to coarse SAND, trace silt, damp. (9") Gray-brown, Silty fine SAND, damp. (21") Black to gray-black, Silty fine SAND, trace medium gravel, trace concrete, brick, possible coal fragment 17-20", mothball/petroleum-like odor, damp, oily/wet 17-26".	Mulch Sand with Concrete, Brick & Coal Fragments (FILL)	No Equipment Installed
5	SS-2	5-10	60/40	N/A	286 1,349	(21") Black-streaked, gray-brown Silty fine SAND, petroleum/mothball-like odor, damp to moist. (4") Gray-brown, Silty fine SAND, petroleum/mothball-like odor, damp. (15") Dark brown to brown, Silty fine SAND, mothball/petroleum-like odor, damp.	Sand (FILL)	
10	SS-3	10-15	60/46	N/A	2,021 285	(10") Black-streaked, gray-brown Silty fine SAND, trace fine gravel, petroleum-like odor, damp. (23") Brown, fine SAND, little silt, petroleum-like odor, damp. (13") Gray-brown, fine SAND, little silt, petroleum-like odor, moist to wet.		
15	SS-4	15-20	60/48	N/A	2,796 (LAB) 2,121	(29") Gray-brown, fine SAND, little silt, strong petroleum-like odor, wet, with sheen apparent. (12") Black to gray-black, fine to medium SAND, little silt, strong petroleum-like odor, wet. (7") Gray-brown, Silty fine SAND to CLAY, petroleum/mothball-like odor, wet, with sheen, bottom 2" dark brown to black, fine to medium SAND, petroleum/mothball-like odor, wet.	Sand with Clay	
20						Test boring terminated at 20' bgs		
25								
30								

NOTES:
1. No monitoring well installed at this location.
2. Soil samples collected for laboratory analyses at 1610 from 15-17.5' bgs (MADEP Methods EPH-04-1 and VPH-04-1).

ENVIRON
3 CARLISLE ROAD, SUITE 210
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SOIL BORING LOG

BORING NO: ENV-12B

PROJECT NAME: Haffner Property
PROJECT NUMBER: 08-36060B
PROJECT LOCATION: 284 Winter St., Haverhill, Massachusetts
FIELD INSPECTOR: Michael Chomin
PROJECT MANAGER: John Noble
DATE: 4/27/2014

DRILLING CO: New England Geotech
FOREMAN: Maynor Mendoza
OTHERS: Kyle Hoffman
RIG TYPE: Geoprobe 6620DT
SAMPLING METHOD: Geoprobe Macro Core equipped with 2" disposable acetate sleeves
TOTAL DEPTH: 20 ft below ground surface (bgs)
BOREHOLE DIAMETER: 2-3/4 inches
ORGANIC VAPOR EQUIPMENT: MiniRae 3000 PID with an 10.6 eV lamp calibrated to 100 ppmv isobutylene standard span gas

BORING LOCATION/COMMENTS:
South of Automotive Vacuum Cleaners

Depth	Sample Data: Sample No.	Depth (Feet)	Penetration/ Recovery (inches)	Blows per 6 Inches	PID/FID (TOVs)	Sample Description	Strata Change	Equipment Installed
	SS-1	0-5	60/34	N/A	3.0	(9") ASPHALT. (7") Brown, fine to medium SAND, little fine to coarse gravel, little silt, damp. (5") Pulverized CONCRETE. (4") Brown, fine to medium SAND, little silt, damp.	Asphalt	No Equipment Installed
					157	(9") Black, Silty fine SAND, ashy, brick in bottom 2", mothball-like odor, damp.	Sand with Concrete, Brick & Ash (FILL)	
5	SS-2	5-10	60/39	N/A	176	(39") Brown to dark brown, fine to medium SAND, little fine to coarse gravel, little silt, brick in top 12", moist to wet.		
					193			
10	SS-3	10-15	60/32	N/A	676	(9") Similar to previous, wet, slight mothball-like odor. (23") Black, Silty fine SAND, ashy, little fine to medium gravel, brick, mothball-like odor, wet.		
					903			
15	SS-4	15-20	60/44	N/A	2,244 (LAB)	(44") Dark brown to black-gray, fine SAND, little silt, brick top 6", strong petroleum/mothball-like odor, wet, with oily sheen in sleeve.		
					1,576			
20						Test boring terminated at 20' bgs		
25								
30								

NOTES:
1. No monitoring well installed at this location.
2. Soil samples collected for laboratory analyses at 1335 from 15-17.5' bgs (MADEP Methods EPH-04-1 and VPH-04-1, Petroleum Hydrocarbon ID/TPH, Alkylated PAHs and PIANO).

ENVIRON
3 CARLISLE ROAD, SUITE 210
WESTFORD, MASSACHUSETTS 01886
phone (978) 449-0300 *fax* (978) 449-0301

SOIL BORING LOG

BORING NO: ENV-13B

PROJECT NAME: Haffner Property
PROJECT NUMBER: 08-36060B
PROJECT LOCATION: 284 Winter St., Haverhill, Massachusetts
FIELD INSPECTOR: Michael Chomin
PROJECT MANAGER: John Noble
DATE: 4/28/2014

DRILLING CO: New England Geotech
FOREMAN: Maynor Mendoza
OTHERS: Kyle Hoffman
RIG TYPE: Geoprobe 6620DT
SAMPLING METHOD: Geoprobe Macro Core equipped with 2" disposable acetate sleeves
TOTAL DEPTH: 20 ft below ground surface (bgs)
BOREHOLE DIAMETER: 2-3/4 inches
ORGANIC VAPOR EQUIPMENT: MiniRae 3000 PID with an 10.6 eV lamp calibrated to 100 ppmv isobutylene standard span gas

BORING LOCATION/COMMENTS:

East of Car Wash Entrance - Near Dumpster

Depth	Sample Data: Sample No.	Depth (Feet)	Penetration/ Recovery (inches)	Blows per 6 Inches	PID/FID (TOVs)	Sample Description	Strata Change	Equipment Installed
	SS-1	0-5	60/28	N/A	3.1 28.7	(6") ASPHALT. (6") Fine SAND, trace silt, damp. (16") Dark brown to gray brown, Silty fine SAND, brick, damp.	Asphalt Sand with Brick (FILL)	No Equipment Installed
5	SS-2	5-10	60/9	N/A	10.8	(9") Dark brown, fine to medium SAND, little silt, damp to wet.		
10	SS-3	10-15	60/48	N/A	73.0 713	(8") Similar to previous, wet. (40") Olive brown to dark brown to gray brown, Silty fine SAND, occasional black streaks, rock fragments at 14" and 31", petroleum-like odor 31-48", damp.		
15	SS-4	15-20	60/33	N/A	709 (LAB) 960	(7") Gray brown, Silty fine SAND, petroleum-like odor, damp. (12") Gray brown, fine to medium SAND, little silt, strong petroleum-like odor, apparent product at 18", wet. (6") Gray brown, Silty fine SAND, petroleum-like odor, wet. (8") Gray brown, fine to medium SAND, oil-stained, trace (+) silt, strong petroleum-like odor, wet, with greenish sheen in sleeve.		
20						Test boring terminated at 20' bgs		
25								
30								

NOTES:
1. No monitoring well installed at this location.
2. Soil samples collected for laboratory analyses at 1430 from 15-17.5' bgs (MADEP Methods EPH-04-1 and VPH-04-1).

APPENDIX K

Alpha Analytical Laboratory Analytical Reports:

- K-1: Soil Sampling Results
- K-2: Groundwater Sampling Results
- K-3: Car Wash Water Supply Well Sampling Results
- K-4: Little River NAPL and Tar-Like Substance Sampling Results

ANALYTICAL REPORT

Lab Number:	L1504918
Client:	Environ 3 Carlisle Rd Suite 210 Westford, MA 01450
ATTN:	John Noble
Phone:	(978) 449-0300
Project Name:	HAFFNER
Project Number:	08-36060B
Report Date:	03/23/15

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

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

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

Project Name: HAFFNER
Project Number: 08-36060B

Lab Number: L1504918
Report Date: 03/23/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1504918-01	CW-1	WATER	284 WINTER ST. HAVERHILL, MA	03/16/15 09:34	03/16/15
L1504918-02	DUPLICATE	WATER	284 WINTER ST. HAVERHILL, MA	03/16/15 09:36	03/16/15
L1504918-03	TRIP BLANK	WATER	284 WINTER ST. HAVERHILL, MA	03/16/15 00:00	03/16/15

Project Name: HAFFNER **Lab Number:** L1504918

Project Number: 08-36060B **Report Date:** 03/23/15

MADEP MCP Response Action Analytical Report Certification

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

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

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

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

Project Name: HAFFNER
Project Number: 08-36060B

Lab Number: L1504918
Report Date: 03/23/15

Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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

Please contact Client Services at 800-624-9220 with any questions.

Project Name: HAFFNER
Project Number: 08-36060B

Lab Number: L1504918
Report Date: 03/23/15

Case Narrative (continued)

MCP Related Narratives

VPH

In reference to questioin H:

The WG769668-4/-5 MS/MSD recoveries, performed on L1504918-01, are outside the acceptance criteria for several compounds; however, the associated LCS/LCSD recoveries are within overall method allowances. The results of the sample utilized for the MS/MSD are considered to have a potentially high bias for C9-C12 aliphatics (185%/185%) and a potentially low bias for C9-C10 aromatics (53%/53%).

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

Authorized Signature: Bryan Vangel

Title: Technical Director/Representative

Date: 03/23/15

ORGANICS

PETROLEUM HYDROCARBONS

Project Name: HAFFNER
Project Number: 08-36060B
Lab Number: L1504918
Report Date: 03/23/15

SAMPLE RESULTS

Lab ID:	L1504918-01	Date Collected:	03/16/15 09:34
Client ID:	CW-1	Date Received:	03/16/15
Sample Location:	284 WINTER ST. HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	03/19/15 17:37		
Analyst:	BS		

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		ug/l	50.0	--	1
C9-C12 Aliphatics	ND		ug/l	50.0	--	1
C9-C10 Aromatics	ND		ug/l	50.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0	--	1
Benzene	ND		ug/l	2.00	--	1
Toluene	ND		ug/l	2.00	--	1
Ethylbenzene	ND		ug/l	2.00	--	1
p/m-Xylene	ND		ug/l	2.00	--	1
o-Xylene	ND		ug/l	2.00	--	1
Methyl tert butyl ether	ND		ug/l	3.00	--	1
Naphthalene	ND		ug/l	4.00	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	125		70-130
2,5-Dibromotoluene-FID	115		70-130

Project Name: HAFFNER **Lab Number:** L1504918

Project Number: 08-36060B **Report Date:** 03/23/15

SAMPLE RESULTS

Lab ID:	L1504918-01			Date Collected:	03/16/15 09:34
Client ID:	CW-1			Date Received:	03/16/15
Sample Location:	284 WINTER ST. HAVERHILL, MA			Field Prep:	Not Specified
Matrix:	Water			Extraction Method:	EPA 3510C
Analytical Method:	98,EPH-04-1.1			Extraction Date:	03/19/15 16:54
Analytical Date:	03/22/15 21:43	M.S. Analytical Date:	03/21/15 22:52	Cleanup Method1:	EPH-04-1
Analyst:	SR	M.S. Analyst:	KV	Cleanup Date1:	03/21/15

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
EPH w/MS Targets - Westborough Lab						
C9-C18 Aliphatics	ND		ug/l	100	--	1
C19-C36 Aliphatics	ND		ug/l	100	--	1
C11-C22 Aromatics	ND		ug/l	100	--	1
C11-C22 Aromatics, Adjusted	ND		ug/l	100	--	1
Naphthalene	ND		ug/l	0.400	--	1
2-Methylnaphthalene	ND		ug/l	0.400	--	1
Acenaphthylene	ND		ug/l	0.400	--	1
Acenaphthene	ND		ug/l	0.400	--	1
Fluorene	ND		ug/l	0.400	--	1
Phenanthrene	ND		ug/l	0.400	--	1
Anthracene	ND		ug/l	0.400	--	1
Fluoranthene	ND		ug/l	0.400	--	1
Pyrene	ND		ug/l	0.400	--	1
Benzo(a)anthracene	ND		ug/l	0.400	--	1
Chrysene	ND		ug/l	0.400	--	1
Benzo(b)fluoranthene	ND		ug/l	0.400	--	1
Benzo(k)fluoranthene	ND		ug/l	0.400	--	1
Benzo(a)pyrene	ND		ug/l	0.200	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.400	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.400	--	1
Benzo(ghi)perylene	ND		ug/l	0.400	--	1

Project Name: HAFFNER **Lab Number:** L1504918

Project Number: 08-36060B **Report Date:** 03/23/15

SAMPLE RESULTS

Lab ID:	L1504918-01	Date Collected:	03/16/15 09:34
Client ID:	CW-1	Date Received:	03/16/15
Sample Location:	284 WINTER ST. HAVERHILL, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

EPH w/MS Targets - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	82		40-140
o-Terphenyl	48		40-140
2-Fluorobiphenyl	57		40-140
2-Bromonaphthalene	58		40-140
O-Terphenyl-MS	99		40-140

Project Name: HAFFNER
Project Number: 08-36060B
Lab Number: L1504918
Report Date: 03/23/15

SAMPLE RESULTS

Lab ID:	L1504918-02	Date Collected:	03/16/15 09:36
Client ID:	DUPLICATE	Date Received:	03/16/15
Sample Location:	284 WINTER ST. HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	03/19/15 19:38		
Analyst:	BS		

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		ug/l	50.0	--	1
C9-C12 Aliphatics	ND		ug/l	50.0	--	1
C9-C10 Aromatics	ND		ug/l	50.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0	--	1
Benzene	ND		ug/l	2.00	--	1
Toluene	ND		ug/l	2.00	--	1
Ethylbenzene	ND		ug/l	2.00	--	1
p/m-Xylene	ND		ug/l	2.00	--	1
o-Xylene	ND		ug/l	2.00	--	1
Methyl tert butyl ether	ND		ug/l	3.00	--	1
Naphthalene	ND		ug/l	4.00	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	116		70-130
2,5-Dibromotoluene-FID	106		70-130

Project Name: HAFFNER **Lab Number:** L1504918

Project Number: 08-36060B **Report Date:** 03/23/15

SAMPLE RESULTS

Lab ID:	L1504918-02			Date Collected:	03/16/15 09:36
Client ID:	DUPLICATE			Date Received:	03/16/15
Sample Location:	284 WINTER ST. HAVERHILL, MA			Field Prep:	Not Specified
Matrix:	Water			Extraction Method:	EPA 3510C
Analytical Method:	98,EPH-04-1.1			Extraction Date:	03/19/15 16:54
Analytical Date:	03/22/15 22:15	M.S. Analytical Date:	03/21/15 23:23	Cleanup Method1:	EPH-04-1
Analyst:	SR	M.S. Analyst:	KV	Cleanup Date1:	03/21/15

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
EPH w/MS Targets - Westborough Lab						
C9-C18 Aliphatics	ND		ug/l	100	--	1
C19-C36 Aliphatics	ND		ug/l	100	--	1
C11-C22 Aromatics	ND		ug/l	100	--	1
C11-C22 Aromatics, Adjusted	ND		ug/l	100	--	1
Naphthalene	ND		ug/l	0.400	--	1
2-Methylnaphthalene	ND		ug/l	0.400	--	1
Acenaphthylene	ND		ug/l	0.400	--	1
Acenaphthene	ND		ug/l	0.400	--	1
Fluorene	ND		ug/l	0.400	--	1
Phenanthrene	ND		ug/l	0.400	--	1
Anthracene	ND		ug/l	0.400	--	1
Fluoranthene	ND		ug/l	0.400	--	1
Pyrene	ND		ug/l	0.400	--	1
Benzo(a)anthracene	ND		ug/l	0.400	--	1
Chrysene	ND		ug/l	0.400	--	1
Benzo(b)fluoranthene	ND		ug/l	0.400	--	1
Benzo(k)fluoranthene	ND		ug/l	0.400	--	1
Benzo(a)pyrene	ND		ug/l	0.200	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.400	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.400	--	1
Benzo(ghi)perylene	ND		ug/l	0.400	--	1

Project Name: HAFFNER **Lab Number:** L1504918

Project Number: 08-36060B **Report Date:** 03/23/15

SAMPLE RESULTS

Lab ID:	L1504918-02	Date Collected:	03/16/15 09:36
Client ID:	DUPLICATE	Date Received:	03/16/15
Sample Location:	284 WINTER ST. HAVERHILL, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

EPH w/MS Targets - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	73		40-140
o-Terphenyl	69		40-140
2-Fluorobiphenyl	74		40-140
2-Bromonaphthalene	77		40-140
O-Terphenyl-MS	78		40-140

Project Name: HAFFNER
Project Number: 08-36060B
Lab Number: L1504918
Report Date: 03/23/15

SAMPLE RESULTS

Lab ID:	L1504918-03	Date Collected:	03/16/15 00:00
Client ID:	TRIP BLANK	Date Received:	03/16/15
Sample Location:	284 WINTER ST. HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	03/19/15 14:13		
Analyst:	BS		

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		ug/l	50.0	--	1
C9-C12 Aliphatics	ND		ug/l	50.0	--	1
C9-C10 Aromatics	ND		ug/l	50.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0	--	1
Benzene	ND		ug/l	2.00	--	1
Toluene	ND		ug/l	2.00	--	1
Ethylbenzene	ND		ug/l	2.00	--	1
p/m-Xylene	ND		ug/l	2.00	--	1
o-Xylene	ND		ug/l	2.00	--	1
Methyl tert butyl ether	ND		ug/l	3.00	--	1
Naphthalene	ND		ug/l	4.00	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	110		70-130
2,5-Dibromotoluene-FID	100		70-130

Project Name: HAFFNER
Project Number: 08-36060B

Lab Number: L1504918
Report Date: 03/23/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 98,EPH-04-1.1
Analytical Date: 03/22/15 19:04
Analyst: SR

M.S. Analytical Date: 03/21/15 20:18
M.S. Analyst: KV

Extraction Method: EPA 3510C
Extraction Date: 03/19/15 16:54
Cleanup Method: EPH-04-1
Cleanup Date: 03/21/15

Parameter	Result	Qualifier	Units	RL	MDL
EPH w/MS Targets - Westborough Lab for sample(s): 01-02 Batch: WG769486-1					
C9-C18 Aliphatics	ND		ug/l	100	--
C19-C36 Aliphatics	ND		ug/l	100	--
C11-C22 Aromatics	ND		ug/l	100	--
C11-C22 Aromatics, Adjusted	ND		ug/l	100	--
Naphthalene	ND		ug/l	0.400	--
2-Methylnaphthalene	ND		ug/l	0.400	--
Acenaphthylene	ND		ug/l	0.400	--
Acenaphthene	ND		ug/l	0.400	--
Fluorene	ND		ug/l	0.400	--
Phenanthrene	ND		ug/l	0.400	--
Anthracene	ND		ug/l	0.400	--
Fluoranthene	ND		ug/l	0.400	--
Pyrene	ND		ug/l	0.400	--
Benzo(a)anthracene	ND		ug/l	0.400	--
Chrysene	ND		ug/l	0.400	--
Benzo(b)fluoranthene	ND		ug/l	0.400	--
Benzo(k)fluoranthene	ND		ug/l	0.400	--
Benzo(a)pyrene	ND		ug/l	0.200	--
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.400	--
Dibenzo(a,h)anthracene	ND		ug/l	0.400	--
Benzo(ghi)perylene	ND		ug/l	0.400	--

Project Name: HAFFNER
Project Number: 08-36060B

Lab Number: L1504918
Report Date: 03/23/15

Method Blank Analysis
Batch Quality Control

Analytical Method:	98,EPH-04-1.1		Extraction Method:	EPA 3510C
Analytical Date:	03/22/15 19:04	03/21/15 20:18	Extraction Date:	03/19/15 16:54
Analyst:	SR	KV	Cleanup Method:	EPH-04-1
			Cleanup Date:	03/21/15

Parameter	Result	Qualifier	Units	RL	MDL
EPH w/MS Targets - Westborough Lab for sample(s): 01-02 Batch: WG769486-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	77		40-140
o-Terphenyl	51		40-140
2-Fluorobiphenyl	63		40-140
2-Bromonaphthalene	64		40-140
O-Terphenyl-MS	86		40-140

Project Name: HAFFNER
Project Number: 08-36060B

Lab Number: L1504918
Report Date: 03/23/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 100,VPH-04-1.1
Analytical Date: 03/19/15 11:06
Analyst: BS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Petroleum Hydrocarbons - Westborough Lab for sample(s): 01-03 Batch: WG769668-3					
C5-C8 Aliphatics	ND		ug/l	50.0	--
C9-C12 Aliphatics	ND		ug/l	50.0	--
C9-C10 Aromatics	ND		ug/l	50.0	--
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0	--
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0	--
Benzene	ND		ug/l	2.00	--
Toluene	ND		ug/l	2.00	--
Ethylbenzene	ND		ug/l	2.00	--
p/m-Xylene	ND		ug/l	2.00	--
o-Xylene	ND		ug/l	2.00	--
Methyl tert butyl ether	ND		ug/l	3.00	--
Naphthalene	ND		ug/l	4.00	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	112		70-130
2,5-Dibromotoluene-FID	101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAFFNER
Project Number: 08-36060B

Lab Number: L1504918
Report Date: 03/23/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
EPH w/MS Targets - Westborough Lab Associated sample(s): 01-02 Batch: WG769486-2 WG769486-3								
C9-C18 Aliphatics	55		64		40-140	15		25
C19-C36 Aliphatics	73		80		40-140	9		25
C11-C22 Aromatics	62		85		40-140	**31**	Q	25
Naphthalene	75		95		40-140	24		25
2-Methylnaphthalene	85		109		40-140	25		25
Acenaphthylene	68		86		40-140	23		25
Acenaphthene	80		102		40-140	24		25
Fluorene	84		106		40-140	23		25
Phenanthrene	80		100		40-140	22		25
Anthracene	79		97		40-140	20		25
Fluoranthene	92		113		40-140	20		25
Pyrene	91		112		40-140	21		25
Benzo(a)anthracene	81		100		40-140	21		25
Chrysene	88		107		40-140	19		25
Benzo(b)fluoranthene	87		107		40-140	21		25
Benzo(k)fluoranthene	85		104		40-140	20		25
Benzo(a)pyrene	70		86		40-140	21		25
Indeno(1,2,3-cd)Pyrene	69		84		40-140	20		25
Dibenzo(a,h)anthracene	82		100		40-140	20		25
Benzo(ghi)perylene	86		102		40-140	17		25
Nonane (C9)	38		48		30-140	23		25

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAFFNER
Project Number: 08-36060B

Lab Number: L1504918
Report Date: 03/23/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
EPH w/MS Targets - Westborough Lab Associated sample(s): 01-02 Batch: WG769486-2 WG769486-3								
Decane (C10)	47		58		40-140	21		25
Dodecane (C12)	60		72		40-140	18		25
Tetradecane (C14)	66		77		40-140	15		25
Hexadecane (C16)	71		82		40-140	14		25
Octadecane (C18)	76		87		40-140	13		25
Nonadecane (C19)	78		89		40-140	13		25
Eicosane (C20)	78		90		40-140	14		25
Docosane (C22)	80		91		40-140	13		25
Tetracosane (C24)	80		92		40-140	14		25
Hexacosane (C26)	80		92		40-140	14		25
Octacosane (C28)	80		92		40-140	14		25
Triacontane (C30)	82		94		40-140	14		25
Hexatriacontane (C36)	83		94		40-140	12		25

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAFFNER
Project Number: 08-36060B

Lab Number: L1504918
Report Date: 03/23/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
EPH w/MS Targets - Westborough Lab Associated sample(s): 01-02 Batch: WG769486-2 WG769486-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	80		84		40-140
o-Terphenyl	70		106		40-140
2-Fluorobiphenyl	74		90		40-140
2-Bromonaphthalene	79		94		40-140
O-Terphenyl-MS	87		107		40-140
% Naphthalene Breakthrough	0		0		
% 2-Methylnaphthalene Breakthrough	0		0		

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAFFNER
Project Number: 08-36060B

Lab Number: L1504918
Report Date: 03/23/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-03 Batch: WG769668-1 WG769668-2								
C5-C8 Aliphatics	96		93		70-130	4		25
C9-C12 Aliphatics	98		93		70-130	4		25
C9-C10 Aromatics	104		103		70-130	1		25
Benzene	112		109		70-130	3		25
Toluene	112		109		70-130	3		25
Ethylbenzene	114		111		70-130	3		25
p/m-Xylene	111		108		70-130	3		25
o-Xylene	111		109		70-130	2		25
Methyl tert butyl ether	105		105		70-130	0		25
Naphthalene	109		106		70-130	3		25
1,2,4-Trimethylbenzene	104		103		70-130	1		25
Pentane	89		85		70-130	5		25
2-Methylpentane	97		94		70-130	4		25
2,2,4-Trimethylpentane	100		97		70-130	3		25
n-Nonane	104		100		30-130	4		25
n-Decane	88		84		70-130	5		25
n-Butylcyclohexane	102		99		70-130	3		25

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAFFNER
Project Number: 08-36060B

Lab Number: L1504918
Report Date: 03/23/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-03 Batch: WG769668-1 WG769668-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,5-Dibromotoluene-PID	109		104		70-130
2,5-Dibromotoluene-FID	95		94		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: HAFFNER
Project Number: 08-36060B

Lab Number: L1504918
Report Date: 03/23/15

EPH w/MS Targets - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG769486-4 WG769486-5 QC Sample: L1504918-01 Client ID: CW-1

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
C9-C18 Aliphatics	ND	600	332	55		397	66		40-140	18		50
C19-C36 Aliphatics	ND	800	651	81		662	83		40-140	2		50
C11-C22 Aromatics	ND	1700	1270	75		1380	81		40-140	8		50
Naphthalene	ND	100	76.7	77		91.3	91		40-140	17		50
2-Methylnaphthalene	ND	100	84.7	85		103	103		40-140	19		50
Acenaphthylene	ND	100	65.6	66		77.9	78		40-140	17		50
Acenaphthene	ND	100	77.8	78		99.7	100		40-140	25		50
Fluorene	ND	100	81.5	82		104	104		40-140	24		50
Phenanthrene	ND	100	78.2	78		104	104		40-140	28		50
Anthracene	ND	100	76.2	76		105	105		40-140	32		50
Fluoranthene	ND	100	90.7	91		119	119		40-140	27		50
Pyrene	ND	100	88.9	89		117	117		40-140	27		50
Benzo(a)anthracene	ND	100	80.0	80		106	106		40-140	28		50
Chrysene	ND	100	86.2	86		106	106		40-140	21		50
Benzo(b)fluoranthene	ND	100	85.2	85		102	102		40-140	18		50
Benzo(k)fluoranthene	ND	100	84.0	84		101	101		40-140	18		50
Benzo(a)pyrene	ND	100	69.4	69		89.4	89		40-140	25		50
Indeno(1,2,3-cd)Pyrene	ND	100	67.6	68		87.0	87		40-140	25		50
Dibenzo(a,h)anthracene	ND	100	81.3	81		100	100		40-140	21		50
Benzo(ghi)perylene	ND	100	83.4	83		98.0	98		40-140	16		50
Nonane (C9)	ND	100	49.0	49		50.2	50		30-140	2		50

Matrix Spike Analysis
Batch Quality Control

Project Name: HAFFNER
Project Number: 08-36060B

Lab Number: L1504918
Report Date: 03/23/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
EPH w/MS Targets - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG769486-4 WG769486-5 QC Sample: L1504918-01 Client ID: CW-1												
Decane (C10)	ND	100	56.8	57		58.3	58		40-140	3		50
Dodecane (C12)	ND	100	66.1	66		67.3	67		40-140	2		50
Tetradecane (C14)	ND	100	70.0	70		71.4	71		40-140	2		50
Hexadecane (C16)	ND	100	75.3	75		76.7	77		40-140	2		50
Octadecane (C18)	ND	100	80.7	81		81.4	81		40-140	1		50
Nonadecane (C19)	ND	100	83.0	83		83.6	84		40-140	1		50
Eicosane (C20)	ND	100	84.4	84		84.8	85		40-140	0		50
Docosane (C22)	ND	100	85.7	86		86.4	86		40-140	1		50
Tetracosane (C24)	ND	100	86.2	86		87.0	87		40-140	1		50
Hexacosane (C26)	ND	100	86.6	87		87.3	87		40-140	1		50
Octacosane (C28)	ND	100	86.8	87		87.5	88		40-140	1		50
Triacontane (C30)	ND	100	88.8	89		89.4	89		40-140	1		50
Hexatriacontane (C36)	ND	100	90.3	90		90.7	91		40-140	0		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2-Bromonaphthalene	83		81		40-140
2-Fluorobiphenyl	77		81		40-140
Chloro-Octadecane	79		82		40-140
O-Terphenyl-MS	85		93		40-140
o-Terphenyl	87		88		40-140

Matrix Spike Analysis
Batch Quality Control

Project Name: HAFFNER
Project Number: 08-36060B

Lab Number: L1504918
Report Date: 03/23/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG769668-4 WG769668-5 QC Sample: L1504918-01 Client ID: CW-1												
C5-C8 Aliphatics	ND	240	282	118		279	116		70-130	1		50
C9-C12 Aliphatics	ND	320	593	**185**	Q	593	**185**	Q	70-130	0		50
C9-C10 Aromatics	ND	120	63.4	**53**	Q	64.0	**53**	Q	70-130	1		50
Benzene	ND	40	46.9	117		47.2	118		70-130	1		50
Toluene	ND	40	46.6	117		47.1	118		70-130	1		50
Ethylbenzene	ND	40	47.2	118		47.8	119		70-130	1		50
p/m-Xylene	ND	80	92.2	115		93.2	117		70-130	1		50
o-Xylene	ND	40	46.0	115		46.8	117		70-130	2		50
Methyl tert butyl ether	ND	40	45.6	114		45.8	114		70-130	0		50
Naphthalene	ND	40	43.5	109		45.7	114		70-130	5		50
1,2,4-Trimethylbenzene	ND	40	42.8	107		43.6	109		70-130	2		50
Pentane	ND	40	37.7	94		37.5	94		70-130	1		50
2-Methylpentane	ND	40	41.0	102		40.6	102		70-130	1		50
2,2,4-Trimethylpentane	ND	40	41.2	103		40.9	102		70-130	1		50
n-Nonane	ND	40	39.3	98		39.1	98		30-130	1		50
n-Decane	ND	40	38.0	95		37.6	94		70-130	1		50
n-Butylcyclohexane	ND	40	38.7	97		38.7	97		70-130	0		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,5-Dibromotoluene-FID	105		103		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: HAFFNER
Project Number: 08-36060B

Lab Number: L1504918
Report Date: 03/23/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG769668-4 WG769668-5 QC Sample: L1504918-01 Client ID: CW-1												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	115		114		70-130

Project Name: HAFFNER
Project Number: 08-36060B

Lab Number: L1504918
Report Date: 03/23/15

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1504918-01A	Vial HCl preserved	A	N/A	3.9	Y	Absent	VPH-DELUX-10(14)
L1504918-01A1	Vial HCl preserved	A	N/A	3.9	Y	Absent	VPH-DELUX-10(14)
L1504918-01A2	Vial HCl preserved	A	N/A	3.9	Y	Absent	VPH-DELUX-10(14)
L1504918-01B	Vial HCl preserved	A	N/A	3.9	Y	Absent	VPH-DELUX-10(14)
L1504918-01B1	Vial HCl preserved	A	N/A	3.9	Y	Absent	VPH-DELUX-10(14)
L1504918-01B2	Vial HCl preserved	A	N/A	3.9	Y	Absent	VPH-DELUX-10(14)
L1504918-01C	Vial HCl preserved	A	N/A	3.9	Y	Absent	VPH-DELUX-10(14)
L1504918-01C1	Vial HCl preserved	A	N/A	3.9	Y	Absent	VPH-DELUX-10(14)
L1504918-01C2	Vial HCl preserved	A	N/A	3.9	Y	Absent	VPH-DELUX-10(14)
L1504918-01D	Amber 1000ml HCl preserved	A	<2	3.9	Y	Absent	EPH-MS-10(14),EPHD-GC-10(14)
L1504918-01D1	Amber 1000ml HCl preserved	A	<2	3.9	Y	Absent	EPH-MS-10(14),EPHD-GC-10(14)
L1504918-01D2	Amber 1000ml HCl preserved	A	<2	3.9	Y	Absent	EPH-MS-10(14),EPHD-GC-10(14)
L1504918-01E	Amber 1000ml HCl preserved	A	<2	3.9	Y	Absent	EPH-MS-10(14),EPHD-GC-10(14)
L1504918-01E1	Amber 1000ml HCl preserved	A	<2	3.9	Y	Absent	EPH-MS-10(14),EPHD-GC-10(14)
L1504918-01E2	Amber 1000ml HCl preserved	A	<2	3.9	Y	Absent	EPH-MS-10(14),EPHD-GC-10(14)
L1504918-02A	Vial HCl preserved	A	N/A	3.9	Y	Absent	VPH-DELUX-10(14)
L1504918-02B	Vial HCl preserved	A	N/A	3.9	Y	Absent	VPH-DELUX-10(14)
L1504918-02C	Vial HCl preserved	A	N/A	3.9	Y	Absent	VPH-DELUX-10(14)
L1504918-02D	Amber 1000ml HCl preserved	A	<2	3.9	Y	Absent	EPH-MS-10(14),EPHD-GC-10(14)
L1504918-02E	Amber 1000ml HCl preserved	A	<2	3.9	Y	Absent	EPH-MS-10(14),EPHD-GC-10(14)
L1504918-03A	Vial HCl preserved	A	N/A	3.9	Y	Absent	VPH-DELUX-10(14)

*Values in parentheses indicate holding time in days

Project Name: HAFFNER **Lab Number:** L1504918

Project Number: 08-36060B **Report Date:** 03/23/15

GLOSSARY

Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: Data Usability Report

Project Name: HAFFNER **Lab Number:** L1504918

Project Number: 08-36060B **Report Date:** 03/23/15

Data Qualifiers

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: HAFFNER **Lab Number:** L1504918
Project Number: 08-36060B **Report Date:** 03/23/15

REFERENCES

98 Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), MassDEP, May 2004, Revision 1.1 with QC Requirements & Performance Standards for the Analysis of EPH under the Massachusetts Contingency Plan, WSC-CAM-IVB, July 2010.

100 Method for the Determination of Volatile Petroleum Hydrocarbons (VPH), MassDEP, May 2004, Revision 1.1 with QC Requirements & Performance Standards for the Analysis of VPH under the Massachusetts Contingency Plan, WSC-CAM-IVA, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised December 16, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA 2540D: TSS
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F,**
EPA 353.2: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 3/16/15

ALPHA Job #: L1504918

ALPHA ANALYTICAL
Worlds Class Chemistry
8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220
320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Client Information

Client: ~~HAT~~ ENVIRON
Address: 3 CARLISLE ROAD
#210, WESTFORD, MA
Phone: 978-449-0333
Email: jnoble@environcorp.com

Project Information

Project Name: HAFFNER
Project Location: 284 WINTER ST HAVERHILL, MA
Project #: 08-36060B
Project Manager: JOHN NOBLE
ALPHA Quote #: → 2015090

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 3/23/15

Report Information - Data Deliverables

☒ ADEx ☒ EMAIL

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements & Project Information Requirements

☒ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☒ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program _____ Criteria _____

Additional Project Information:

WORK CONDUCTED IN ACCORDANCE WITH ALPHA-ENVIRON MSA, DATED 11/15/13 & PROJECT SPECIFIC QUOTE 2015090, DATED 1/29/15

ANALYSIS: VOC: ☐ 8260 ☐ 624 ☐ 524.2; SVOC: ☐ ABN ☐ PAH; METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15; METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13; EPH: ☒ Ranges & Targets ☐ Ranges Only; VPH: ☒ Ranges & Targets ☐ Ranges Only; ☐ PCB ☐ PEST; TPH: ☐ Quant Only ☐ Fingerprint

SAMPLE INFO
Filtration
☐ Field
☐ Lab to do
Preservation
☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	EPH	VPH	Sample Comments	TOTAL # BOTTLES
04918-01	CW-1	3/16/15	0934	W	JMN	X	X	MS/MSD	~~5~~ 10
02	DUPLICATE	↓	0936	W	JMN	X	X		5
JMN	~~MATRIX SPIKE (MS)~~	↓	~~0938~~	~~W~~	~~JMN~~	~~X~~	~~X~~	~~JMN~~	~~5~~
JMN	~~MATRIX SPIKE DUPLICATE~~	↓	~~0940~~	~~W~~	~~JMN~~	~~X~~	~~X~~	~~JMN~~	~~5~~
	TRIP BLANK		~~0942~~				X		

Container Type
Preservative

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO_3
D= H_2SO_4
E= NaOH
F= MeOH
G= $NaHSO_4$
H = $Na_2S_2O_3$
I= Ascorbic Acid
J = NH_4Cl
K= Zn Acetate
O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	3/16/15 1358	[signature] AAL	3/16/15 1355
[signature]	3/16/15 1500	[signature] McDevitt	3/16/15 1500

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

ANALYTICAL REPORT

Lab Number:	L1508968
Client:	Environ 3 Carlisle Rd Suite 210 Westford, MA 01450
ATTN:	John Noble
Phone:	(978) 449-0300
Project Name:	HAVERHILL,-284 WINTER ST.
Project Number:	08-36060B
Report Date:	12/09/15

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

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

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

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1508968-01	ENV-5B-12.5'-15.0'	SOIL	HAVERHILL, MA	04/27/15 09:56	04/29/15
L1508968-02	ENV-6B-6.0'-7.0'	SOIL	HAVERHILL, MA	04/27/15 11:00	04/29/15
L1508968-03	ENV-7B-10.0'-11.0'	SOIL	HAVERHILL, MA	04/27/15 11:45	04/29/15
L1508968-04	DUP	SOIL	HAVERHILL, MA	04/27/15 12:00	04/29/15
L1508968-05	ENV-9B-12.5'-15.0'	SOIL	HAVERHILL, MA	04/27/15 12:50	04/29/15
L1508968-06	ENV-8B-12.5'-15.0'	SOIL	HAVERHILL, MA	04/27/15 14:45	04/29/15
L1508968-07	ENV-11B-15.0'-17.5'	SOIL	HAVERHILL, MA	04/27/15 16:10	04/29/15
L1508968-08	ENV-1B-15.0'-17.5'	SOIL	HAVERHILL, MA	04/28/15 09:30	04/29/15
L1508968-09	ENV-2B-5.0'-6-5'	SOIL	HAVERHILL, MA	04/28/15 10:00	04/29/15
L1508968-10	ENV-3B-12.5'-15.0'	SOIL	HAVERHILL, MA	04/28/15 11:00	04/29/15
L1508968-11	ENV-4B-2.5'-3.5'	SOIL	HAVERHILL, MA	04/28/15 11:42	04/29/15
L1508968-12	ENV-10B-0.0'-2.5'	SOIL	HAVERHILL, MA	04/28/15 12:30	04/29/15
L1508968-13	ENV-12B-15.0'-17.5'	SOIL	HAVERHILL, MA	04/28/15 13:35	04/29/15
L1508968-14	ENV-13B-17.5'-20.0'	SOIL	HAVERHILL, MA	04/28/15 14:30	04/29/15
L1508968-15	ENV-9B-TAR FRAGMENT (10.0'-12.5')	SOLID	HAVERHILL, MA	04/27/15 12:40	04/29/15
L1508968-16	TRIP BLANK	SOIL	HAVERHILL, MA	04/22/15 00:00	04/29/15

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

MADEP MCP Response Action Analytical Report Certification

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

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

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

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

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968
Project Number: 08-36060B **Report Date:** 12/09/15

Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	HAVERHILL,-284 WINTER ST.	**Lab Number:**	L1508968
Project Number:	08-36060B	**Report Date:**	12/09/15

Case Narrative (continued)

Report Submission

This report replaces the report issued August 11, 2015. The TPH/PHI section of the case narrative has been revised.

This report replaces the report issued May 22, 2015. At the client's request, the VPH and EPH results were removed from this report.

A previously-issued final report replaced the partial reports issued May 21st and May 20th, 2015. The results of all requested analyses were reported.

MCP Related Narratives

Report Submission

All MCP required questions were answered with affirmative responses; therefore, there are no relevant protocol-specific QC and/or performance standard non-conformances to report.

Non-MCP Related Narratives

PIANO Volatile Organics

L1508968-01, -05, -06, -07, -08, -10 and -13 have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples. Samples were re-analyzed on dilution in order to quantify the samples within the calibration range. The results should be considered estimated, and are qualified with an E flag, for any compound that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compounds that exceeded the calibration range.

The WG783332-3/-4 LCS/LCSD recoveries are above the acceptance criteria for dodecane (c12) (139%/138%). The results of the associated samples are reported; however, all positive results are considered to have a potentially high bias for this compound.

Alkylated PAH's

Concentrations for compounds flagged with "G" qualifiers may be biased high due to matrix interference included in the quantitation.

L1508968-01, -06, -07, -08, -10, -15, WG783304-4 and -5 were re-analyzed on dilution in order to quantify

Project Name:	HAVERHILL,-284 WINTER ST.	**Lab Number:**	L1508968
Project Number:	08-36060B	**Report Date:**	12/09/15

Case Narrative (continued)

the sample within the calibration range. The results should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

The surrogate recoveries for L1508968-01 (140%) and -06 (131%) are above the acceptance criteria for phenanthrene-d10; however, the recoveries are within overall method allowances, therefore no further action was taken.

The surrogates for L1508968-10D, WG783304-4D and WG783304-5D were diluted below calibration range. These surrogate recoveries are not reported.

The continuing calibration verification (CCV) standard WG786393-2, has the response for Acenaphthylene at (32.9%D), greater than 25%D, but below 35%D. Since this represents less than 10% of the total compounds evaluated, the calibration was accepted.

The continuing calibration verification (CCV) standard WG786393-3, has the response for Acenaphthylene at (46.6%D) and Anthracene at (26.1%D). Since this calibration standard was only evaluated for the PAH compounds that required dilution, all of which were within QC limits, the calibration was accepted.

The continuing calibration verification (CCV) standard WG786393-5, has the response for Benzo(b)fluoranthene at (28.7%D), greater than 25%D, but below 35%D. Since this represents less than 10% of the total compounds evaluated, the calibration was accepted.

L1508968-10D, WG783304-4D, WG783304-5D: The surrogate recoveries are above the acceptance criteria for Phenanthrene-d10 due to the dilution required to quantitate the sample.

L1508968-10D: The surrogate recoveries are above the acceptance criteria for Benzo(a)Pyrene-d12 due to the dilution required to quantitate the sample.

The WG783304-4/-5 MS/MSD recoveries, performed on L1508968-10, are outside the acceptance criteria for naphthalene (0%/39600%), 2-methylnaphthalene (0%/861%), acenaphthylene (0%/0%), acenaphthene (0%/0%), fluorene (0%/0%), phenanthrene (0%/0%), fluoranthene (0%/0%), pyrene (0%/0%), chrysene/triphenylene (43%/0%), benzo(b)fluoranthene (43%/35%), benzo(j)+(k)fluoranthene (MSD 0%), benzo(a)pyrene (0%/0%), indeno(1,2,3-cd)pyrene (MSD 0%), dibenz(a,h)+(a,c)anthracene (MSD 0%), benzo(ghi)perylene (9%/35%). The unacceptable percent recoveries are attributed to the elevated concentrations of target compounds present in the sample utilized for the MS/MSD.

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

Authorized Signature: Elizabeth Porta

Title: Technical Director/Representative

Date: 12/09/15

ORGANICS

VOLATILES

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID:	L1508968-01	D2	Date Collected:	04/27/15 09:56
Client ID:	ENV-5B-12.5'-15.0'		Date Received:	04/29/15
Sample Location:	HAVERHILL, MA		Field Prep:	Not Specified
Matrix:	Soil			
Analytical Method:	1,8260B			
Analytical Date:	05/09/15 10:28			
Analyst:	MR			
Percent Solids:	84%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
Naphthalene	384000		ug/kg	19000	--	100
2-Methylnaphthalene	353000		ug/kg	47400	--	100
1-Methylnaphthalene	218000		ug/kg	47400	--	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	111		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	99		70-130

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID:	L1508968-01	D	Date Collected:	04/27/15 09:56
Client ID:	ENV-5B-12.5'-15.0'		Date Received:	04/29/15
Sample Location:	HAVERHILL, MA		Field Prep:	Not Specified
Matrix:	Soil			
Analytical Method:	1,8260B			
Analytical Date:	05/08/15 17:26			
Analyst:	MR			
Percent Solids:	84%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
3-Methyl-1-butene	ND		ug/kg	1900	--	10
Isopentane	ND		ug/kg	1900	--	10
1-Pentene	ND		ug/kg	1900	--	10
2-Methyl-1-Butene	ND		ug/kg	1900	--	10
Pentane	ND		ug/kg	1900	--	10
trans-2-Pentene	ND		ug/kg	1900	--	10
Isoprene	ND		ug/kg	1900	--	10
cis-2-Pentene	ND		ug/kg	1900	--	10
Tertiary Butanol	ND		ug/kg	23700	--	10
2,2-Dimethylbutane	ND		ug/kg	1900	--	10
4-Methyl-1-pentene	ND		ug/kg	1900	--	10
Cyclopentane	ND		ug/kg	1900	--	10
2,3-Dimethylbutane	ND		ug/kg	1900	--	10
2-Methylpentane	ND		ug/kg	1900	--	10
Methyl tert butyl ether	ND		ug/kg	1900	--	10
3-Methylpentane	ND		ug/kg	1900	--	10
1-Hexene	ND		ug/kg	1900	--	10
n-Hexane	ND		ug/kg	1900	--	10
Isopropyl Ether	ND		ug/kg	1900	--	10
trans-2-Hexene	ND		ug/kg	1900	--	10
2-Methyl-2-pentene	ND		ug/kg	1900	--	10
cis-2-Hexene	ND		ug/kg	1900	--	10
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1900	--	10
2,2-Dimethylpentane	ND		ug/kg	1900	--	10
Methylcyclopentane	ND		ug/kg	1900	--	10
2,4-Dimethylpentane	ND		ug/kg	1900	--	10
2,2,3-Trimethylbutane	ND		ug/kg	1900	--	10
1,2-Dichloroethane	ND		ug/kg	1900	--	10
3,3-Dimethylpentane	ND		ug/kg	1900	--	10
Cyclohexane	ND		ug/kg	1900	--	10

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-01 D
Client ID: ENV-5B-12.5'-15.0'
Sample Location: HAVERHILL, MA

Date Collected: 04/27/15 09:56
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
2-Methylhexane	ND		ug/kg	1900	--	10
Benzene	33600		ug/kg	1900	--	10
2,3-Dimethylpentane	ND		ug/kg	1900	--	10
Thiophene	ND		ug/kg	1900	--	10
1,1-Dimethylcyclopentane	ND		ug/kg	1900	--	10
3-Methylhexane	2170		ug/kg	1900	--	10
Tertiary-Amyl Methyl Ether	ND		ug/kg	1900	--	10
1,3-Dimethylcyclopentane (cis)	ND		ug/kg	1900	--	10
3-Ethylpentane	ND		ug/kg	1900	--	10
1,3-DMCP (trans)/2-Methyl-1-hexene	ND		ug/kg	3790	--	10
1-Heptene/1,2-DMCP (trans)	ND		ug/kg	3790	--	10
Isooctane	ND		ug/kg	1900	--	10
trans-3-Heptene	ND		ug/kg	1900	--	10
Heptane	3910		ug/kg	1900	--	10
cis-3-Heptene	ND		ug/kg	1900	--	10
trans-2-Heptene	ND		ug/kg	1900	--	10
cis-2-Heptene	ND		ug/kg	1900	--	10
2,2-Dimethylhexane	ND		ug/kg	1900	--	10
Methylcyclohexane	13700		ug/kg	1900	--	10
2,5-Dimethylhexane	ND		ug/kg	1900	--	10
2,4-Dimethylhexane	ND		ug/kg	1900	--	10
Ethylcyclopentane	ND		ug/kg	1900	--	10
2,2,3-Trimethylpentane	ND		ug/kg	1900	--	10
1,2,3-Trimethylcyclopentane (ctc)	ND		ug/kg	1900	--	10
2,3,4-Trimethylpentane	ND		ug/kg	1900	--	10
2,3,3-Trimethylpentane	ND		ug/kg	1900	--	10
2,3-Dimethylhexane	ND		ug/kg	1900	--	10
2-Methylheptane	4220		ug/kg	1900	--	10
4-Methylheptane	ND		ug/kg	1900	--	10
3-Methylheptane	4010		ug/kg	1900	--	10
3-Ethylhexane	ND		ug/kg	1900	--	10
Toluene	2710		ug/kg	1900	--	10
2-Methylthiophene	ND		ug/kg	1900	--	10
1,4-Dimethylcyclohexane (trans)	4520		ug/kg	1900	--	10
3-Methylthiophene	ND		ug/kg	1900	--	10
1-Octene	ND		ug/kg	1900	--	10
Octane	7280		ug/kg	1900	--	10
1,2-Dimethylcyclohexane (trans)	6210		ug/kg	1900	--	10
1,2-Dibromoethane	ND		ug/kg	1900	--	10

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-01 D
Client ID: ENV-5B-12.5'-15.0'
Sample Location: HAVERHILL, MA

Date Collected: 04/27/15 09:56
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
1,2,3-TMCP (ccc)/2-Octene (trans)	ND		ug/kg	3790	--	10
cis-2-Octene	ND		ug/kg	1900	--	10
Isopropylcyclopentane	ND		ug/kg	1900	--	10
1,2-Dimethylcyclohexane (cis)	2220		ug/kg	1900	--	10
2,5-Dimethylheptane	2960		ug/kg	1900	--	10
3,5-Dimethylheptane	ND		ug/kg	1900	--	10
3,3-Dimethylheptane	ND		ug/kg	1900	--	10
1,1,4-Trimethylcyclohexane	ND		ug/kg	1900	--	10
2,3-Dimethylheptane	4810		ug/kg	1900	--	10
3,4-Dimethylheptane	2450		ug/kg	1900	--	10
4-Methyloctane	4990		ug/kg	1900	--	10
2-Methyloctane	5420		ug/kg	1900	--	10
Ethylbenzene	170000		ug/kg	1900	--	10
2-Ethylthiophene	ND		ug/kg	1900	--	10
3-Methyloctane	7330		ug/kg	1900	--	10
3,3-Diethylpentane	ND		ug/kg	1900	--	10
p/m-Xylene	89000		ug/kg	3790	--	10
1-Nonene	ND		ug/kg	4740	--	10
trans-3-Nonene	ND		ug/kg	1900	--	10
cis-3-Nonene	ND		ug/kg	1900	--	10
Nonane (C9)	12700		ug/kg	1900	--	10
Styrene	ND		ug/kg	1900	--	10
o-Xylene	52600		ug/kg	1900	--	10
2-Nonene	ND		ug/kg	1900	--	10
Isopropylcyclohexane	5990		ug/kg	1900	--	10
Isopropylbenzene	9250		ug/kg	1900	--	10
3,3-Dimethyloctane	ND		ug/kg	1900	--	10
n-Propylbenzene	8670		ug/kg	1900	--	10
2-Methylnonane	8830		ug/kg	1900	--	10
3-Methylnonane	9370		ug/kg	1900	--	10
1-Methyl-3-Ethylbenzene	58000		ug/kg	1900	--	10
1-Methyl-4-Ethylbenzene	23500		ug/kg	1900	--	10
1,3,5-Trimethylbenzene	34200		ug/kg	1900	--	10
1-Decene	ND		ug/kg	1900	--	10
Isobutylcyclohexane	ND		ug/kg	1900	--	10
1-Methyl-2-Ethylbenzene	14800		ug/kg	1900	--	10
Decane (C10)	23400		ug/kg	1900	--	10
tert-Butylbenzene	ND		ug/kg	1900	--	10
1,2,4-Trimethylbenzene	98800		ug/kg	1900	--	10

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-01 D
Client ID: ENV-5B-12.5'-15.0'
Sample Location: HAVERHILL, MA

Date Collected: 04/27/15 09:56
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
Isobutylbenzene	3340		ug/kg	1900	--	10
sec-Butylbenzene	4140		ug/kg	1900	--	10
1-Methyl-3-Isopropylbenzene	10200		ug/kg	1900	--	10
1-Methyl-4-Isopropylbenzene	7040		ug/kg	1900	--	10
1,2,3-Trimethylbenzene	38500		ug/kg	1900	--	10
1-Methyl-2-Isopropylbenzene	ND		ug/kg	1900	--	10
Indane	134000		ug/kg	1900	--	10
1,3-Diethylbenzene	12900		ug/kg	1900	--	10
1-Methyl-3-N-Propylbenzene	20100		ug/kg	1900	--	10
Indene	11900		ug/kg	1900	--	10
1-Methyl-4-N-Propylbenzene	11100		ug/kg	1900	--	10
n-Butylbenzene	8670		ug/kg	1900	--	10
1,2-Dimethyl-4-Ethylbenzene	27200		ug/kg	1900	--	10
1,2-Diethylbenzene	2840		ug/kg	1900	--	10
1-Methyl-2-N-Propylbenzene	9780		ug/kg	1900	--	10
1,4-Dimethyl-2-Ethylbenzene	17700		ug/kg	1900	--	10
Undecane	29800		ug/kg	1900	--	10
1,3-Dimethyl-4-Ethylbenzene	20900		ug/kg	1900	--	10
1,3-Dimethyl-5-Ethylbenzene	32300		ug/kg	1900	--	10
1,3-Dimethyl-2-Ethylbenzene	5470		ug/kg	1900	--	10
1,2-Dimethyl-3-Ethylbenzene	10900		ug/kg	1900	--	10
1,2,4,5-Tetramethylbenzene	22900		ug/kg	1900	--	10
1,2,3,5-Tetramethylbenzene	40800		ug/kg	1900	--	10
N-Pentylbenzene	5330		ug/kg	1900	--	10
1,2,3,4-Tetramethylbenzene	27600		ug/kg	1900	--	10
1,3-Dimethyl-5-tert-Butylbenzene	ND		ug/kg	1900	--	10
Dodecane (C12)	22200		ug/kg	1900	--	10
1,3,5-Triethylbenzene	ND		ug/kg	1900	--	10
Naphthalene	426000	E	ug/kg	1900	--	10
Benzothiophene	10500		ug/kg	1900	--	10
1,2,4-Triethylbenzene	ND		ug/kg	1900	--	10
Hexylbenzene	7640		ug/kg	1900	--	10
MMT	ND		ug/kg	4740	--	10
Tridecane	18300		ug/kg	4740	--	10
2-Methylnaphthalene	395000	E	ug/kg	4740	--	10
1-Methylnaphthalene	240000	E	ug/kg	4740	--	10
Tetradecane (C14)	16700		ug/kg	4740	--	10
Pentadecane	20700		ug/kg	4740	--	10

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID:	L1508968-01	D	Date Collected:	04/27/15 09:56
Client ID:	ENV-5B-12.5'-15.0'		Date Received:	04/29/15
Sample Location:	HAVERHILL, MA		Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

PIANO Volatile Organics by EPA 5035 High - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	110		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130

Project Name: HAVERHILL,-284 WINTER ST.
Lab Number: L1508968
Project Number: 08-36060B
Report Date: 12/09/15

SAMPLE RESULTS

Lab ID:	L1508968-05	D2	Date Collected:	04/27/15 12:50
Client ID:	ENV-9B-12.5'-15.0'		Date Received:	04/29/15
Sample Location:	HAVERHILL, MA		Field Prep:	Not Specified
Matrix:	Soil			
Analytical Method:	1,8260B			
Analytical Date:	05/09/15 11:45			
Analyst:	MR			
Percent Solids:	85%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
Naphthalene	716000		ug/kg	27600	--	200
2-Methylnaphthalene	399000		ug/kg	69000	--	200
1-Methylnaphthalene	255000		ug/kg	69000	--	200

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	112		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	99		70-130

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID:	L1508968-05	D	Date Collected:	04/27/15 12:50
Client ID:	ENV-9B-12.5'-15.0'		Date Received:	04/29/15
Sample Location:	HAVERHILL, MA		Field Prep:	Not Specified
Matrix:	Soil			
Analytical Method:	1,8260B			
Analytical Date:	05/08/15 18:42			
Analyst:	MR			
Percent Solids:	85%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
3-Methyl-1-butene	ND		ug/kg	2760	--	20
Isopentane	ND		ug/kg	2760	--	20
1-Pentene	ND		ug/kg	2760	--	20
2-Methyl-1-Butene	ND		ug/kg	2760	--	20
Pentane	ND		ug/kg	2760	--	20
trans-2-Pentene	ND		ug/kg	2760	--	20
Isoprene	ND		ug/kg	2760	--	20
cis-2-Pentene	ND		ug/kg	2760	--	20
Tertiary Butanol	ND		ug/kg	34500	--	20
2,2-Dimethylbutane	ND		ug/kg	2760	--	20
4-Methyl-1-pentene	ND		ug/kg	2760	--	20
Cyclopentane	ND		ug/kg	2760	--	20
2,3-Dimethylbutane	ND		ug/kg	2760	--	20
2-Methylpentane	ND		ug/kg	2760	--	20
Methyl tert butyl ether	ND		ug/kg	2760	--	20
3-Methylpentane	ND		ug/kg	2760	--	20
1-Hexene	ND		ug/kg	2760	--	20
n-Hexane	ND		ug/kg	2760	--	20
Isopropyl Ether	ND		ug/kg	2760	--	20
trans-2-Hexene	ND		ug/kg	2760	--	20
2-Methyl-2-pentene	ND		ug/kg	2760	--	20
cis-2-Hexene	ND		ug/kg	2760	--	20
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2760	--	20
2,2-Dimethylpentane	ND		ug/kg	2760	--	20
Methylcyclopentane	ND		ug/kg	2760	--	20
2,4-Dimethylpentane	ND		ug/kg	2760	--	20
2,2,3-Trimethylbutane	ND		ug/kg	2760	--	20
1,2-Dichloroethane	ND		ug/kg	2760	--	20
3,3-Dimethylpentane	ND		ug/kg	2760	--	20
Cyclohexane	ND		ug/kg	2760	--	20

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-05 D
Client ID: ENV-9B-12.5'-15.0'
Sample Location: HAVERHILL, MA

Date Collected: 04/27/15 12:50
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
2-Methylhexane	ND		ug/kg	2760	--	20
Benzene	105000		ug/kg	2760	--	20
2,3-Dimethylpentane	ND		ug/kg	2760	--	20
Thiophene	ND		ug/kg	2760	--	20
1,1-Dimethylcyclopentane	ND		ug/kg	2760	--	20
3-Methylhexane	ND		ug/kg	2760	--	20
Tertiary-Amyl Methyl Ether	ND		ug/kg	2760	--	20
1,3-Dimethylcyclopentane (cis)	ND		ug/kg	2760	--	20
3-Ethylpentane	ND		ug/kg	2760	--	20
1,3-DMCP (trans)/2-Methyl-1-hexene	ND		ug/kg	5520	--	20
1-Heptene/1,2-DMCP (trans)	ND		ug/kg	5520	--	20
Isooctane	ND		ug/kg	2760	--	20
trans-3-Heptene	ND		ug/kg	2760	--	20
Heptane	2940		ug/kg	2760	--	20
cis-3-Heptene	ND		ug/kg	2760	--	20
trans-2-Heptene	ND		ug/kg	2760	--	20
cis-2-Heptene	ND		ug/kg	2760	--	20
2,2-Dimethylhexane	ND		ug/kg	2760	--	20
Methylcyclohexane	9300		ug/kg	2760	--	20
2,5-Dimethylhexane	ND		ug/kg	2760	--	20
2,4-Dimethylhexane	ND		ug/kg	2760	--	20
Ethylcyclopentane	ND		ug/kg	2760	--	20
2,2,3-Trimethylpentane	ND		ug/kg	2760	--	20
1,2,3-Trimethylcyclopentane (ctc)	ND		ug/kg	2760	--	20
2,3,4-Trimethylpentane	ND		ug/kg	2760	--	20
2,3,3-Trimethylpentane	ND		ug/kg	2760	--	20
2,3-Dimethylhexane	ND		ug/kg	2760	--	20
2-Methylheptane	3080		ug/kg	2760	--	20
4-Methylheptane	ND		ug/kg	2760	--	20
3-Methylheptane	3150		ug/kg	2760	--	20
3-Ethylhexane	ND		ug/kg	2760	--	20
Toluene	4030		ug/kg	2760	--	20
2-Methylthiophene	ND		ug/kg	2760	--	20
1,4-Dimethylcyclohexane (trans)	3560		ug/kg	2760	--	20
3-Methylthiophene	ND		ug/kg	2760	--	20
1-Octene	ND		ug/kg	2760	--	20
Octane	6730		ug/kg	2760	--	20
1,2-Dimethylcyclohexane (trans)	4400		ug/kg	2760	--	20
1,2-Dibromoethane	ND		ug/kg	2760	--	20

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-05 D
Client ID: ENV-9B-12.5'-15.0'
Sample Location: HAVERHILL, MA

Date Collected: 04/27/15 12:50
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
1,2,3-TMCP (ccc)/2-Octene (trans)	ND		ug/kg	5520	--	20
cis-2-Octene	ND		ug/kg	2760	--	20
Isopropylcyclopentane	ND		ug/kg	2760	--	20
1,2-Dimethylcyclohexane (cis)	ND		ug/kg	2760	--	20
2,5-Dimethylheptane	ND		ug/kg	2760	--	20
3,5-Dimethylheptane	ND		ug/kg	2760	--	20
3,3-Dimethylheptane	ND		ug/kg	2760	--	20
1,1,4-Trimethylcyclohexane	ND		ug/kg	2760	--	20
2,3-Dimethylheptane	3470		ug/kg	2760	--	20
3,4-Dimethylheptane	ND		ug/kg	2760	--	20
4-Methyloctane	4020		ug/kg	2760	--	20
2-Methyloctane	4580		ug/kg	2760	--	20
Ethylbenzene	238000		ug/kg	2760	--	20
2-Ethylthiophene	ND		ug/kg	2760	--	20
3-Methyloctane	6070		ug/kg	2760	--	20
3,3-Diethylpentane	ND		ug/kg	2760	--	20
p/m-Xylene	194000		ug/kg	5520	--	20
1-Nonene	ND		ug/kg	6900	--	20
trans-3-Nonene	ND		ug/kg	2760	--	20
cis-3-Nonene	ND		ug/kg	2760	--	20
Nonane (C9)	12900		ug/kg	2760	--	20
Styrene	ND		ug/kg	2760	--	20
o-Xylene	85600		ug/kg	2760	--	20
2-Nonene	ND		ug/kg	2760	--	20
Isopropylcyclohexane	4880		ug/kg	2760	--	20
Isopropylbenzene	16800		ug/kg	2760	--	20
3,3-Dimethyloctane	ND		ug/kg	2760	--	20
n-Propylbenzene	11100		ug/kg	2760	--	20
2-Methylnonane	10400		ug/kg	2760	--	20
3-Methylnonane	9790		ug/kg	2760	--	20
1-Methyl-3-Ethylbenzene	121000		ug/kg	2760	--	20
1-Methyl-4-Ethylbenzene	55000		ug/kg	2760	--	20
1,3,5-Trimethylbenzene	48000		ug/kg	2760	--	20
1-Decene	ND		ug/kg	2760	--	20
Isobutylcyclohexane	ND		ug/kg	2760	--	20
1-Methyl-2-Ethylbenzene	21500		ug/kg	2760	--	20
Decane (C10)	19700		ug/kg	2760	--	20
tert-Butylbenzene	ND		ug/kg	2760	--	20
1,2,4-Trimethylbenzene	128000		ug/kg	2760	--	20

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-05 D
Client ID: ENV-9B-12.5'-15.0'
Sample Location: HAVERHILL, MA

Date Collected: 04/27/15 12:50
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
Isobutylbenzene	4170		ug/kg	2760	--	20
sec-Butylbenzene	4940		ug/kg	2760	--	20
1-Methyl-3-Isopropylbenzene	16400		ug/kg	2760	--	20
1-Methyl-4-Isopropylbenzene	10100		ug/kg	2760	--	20
1,2,3-Trimethylbenzene	50600		ug/kg	2760	--	20
1-Methyl-2-Isopropylbenzene	ND		ug/kg	2760	--	20
Indane	264000		ug/kg	2760	--	20
1,3-Diethylbenzene	20700		ug/kg	2760	--	20
1-Methyl-3-N-Propylbenzene	21500		ug/kg	2760	--	20
Indene	11300		ug/kg	2760	--	20
1-Methyl-4-N-Propylbenzene	11800		ug/kg	2760	--	20
n-Butylbenzene	9020		ug/kg	2760	--	20
1,2-Dimethyl-4-Ethylbenzene	29500		ug/kg	2760	--	20
1,2-Diethylbenzene	ND		ug/kg	2760	--	20
1-Methyl-2-N-Propylbenzene	9900		ug/kg	2760	--	20
1,4-Dimethyl-2-Ethylbenzene	17300		ug/kg	2760	--	20
Undecane	22600		ug/kg	2760	--	20
1,3-Dimethyl-4-Ethylbenzene	21200		ug/kg	2760	--	20
1,3-Dimethyl-5-Ethylbenzene	38500		ug/kg	2760	--	20
1,3-Dimethyl-2-Ethylbenzene	6220		ug/kg	2760	--	20
1,2-Dimethyl-3-Ethylbenzene	11300		ug/kg	2760	--	20
1,2,4,5-Tetramethylbenzene	22200		ug/kg	2760	--	20
1,2,3,5-Tetramethylbenzene	40900		ug/kg	2760	--	20
N-Pentylbenzene	4190		ug/kg	2760	--	20
1,2,3,4-Tetramethylbenzene	25500		ug/kg	2760	--	20
1,3-Dimethyl-5-tert-Butylbenzene	ND		ug/kg	2760	--	20
Dodecane (C12)	15300		ug/kg	2760	--	20
1,3,5-Triethylbenzene	ND		ug/kg	2760	--	20
Naphthalene	904000	E	ug/kg	2760	--	20
Benzothiophene	16300		ug/kg	2760	--	20
1,2,4-Triethylbenzene	ND		ug/kg	2760	--	20
Hexylbenzene	6930		ug/kg	2760	--	20
MMT	ND		ug/kg	6900	--	20
Tridecane	6940		ug/kg	6900	--	20
2-Methylnaphthalene	520000	E	ug/kg	6900	--	20
1-Methylnaphthalene	327000	E	ug/kg	6900	--	20
Tetradecane (C14)	ND		ug/kg	6900	--	20
Pentadecane	12500		ug/kg	6900	--	20

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-05 D
Client ID: ENV-9B-12.5'-15.0'
Sample Location: HAVERHILL, MA

Date Collected: 04/27/15 12:50
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

PIANO Volatile Organics by EPA 5035 High - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	106		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	101		70-130

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID:	L1508968-06	D2	Date Collected:	04/27/15 14:45
Client ID:	ENV-8B-12.5'-15.0'		Date Received:	04/29/15
Sample Location:	HAVERHILL, MA		Field Prep:	Not Specified
Matrix:	Soil			
Analytical Method:	1,8260B			
Analytical Date:	05/09/15 13:02			
Analyst:	MR			
Percent Solids:	83%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
Naphthalene	295000		ug/kg	8470	--	50
2-Methylnaphthalene	218000		ug/kg	21200	--	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	108		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	99		70-130

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID:	L1508968-06	D	Date Collected:	04/27/15 14:45
Client ID:	ENV-8B-12.5'-15.0'		Date Received:	04/29/15
Sample Location:	HAVERHILL, MA		Field Prep:	Not Specified
Matrix:	Soil			
Analytical Method:	1,8260B			
Analytical Date:	05/08/15 19:58			
Analyst:	MR			
Percent Solids:	83%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
3-Methyl-1-butene	ND		ug/kg	1690	--	10
Isopentane	ND		ug/kg	1690	--	10
1-Pentene	ND		ug/kg	1690	--	10
2-Methyl-1-Butene	ND		ug/kg	1690	--	10
Pentane	ND		ug/kg	1690	--	10
trans-2-Pentene	ND		ug/kg	1690	--	10
Isoprene	ND		ug/kg	1690	--	10
cis-2-Pentene	ND		ug/kg	1690	--	10
Tertiary Butanol	ND		ug/kg	21200	--	10
2,2-Dimethylbutane	ND		ug/kg	1690	--	10
4-Methyl-1-pentene	ND		ug/kg	1690	--	10
Cyclopentane	ND		ug/kg	1690	--	10
2,3-Dimethylbutane	ND		ug/kg	1690	--	10
2-Methylpentane	ND		ug/kg	1690	--	10
Methyl tert butyl ether	ND		ug/kg	1690	--	10
3-Methylpentane	ND		ug/kg	1690	--	10
1-Hexene	ND		ug/kg	1690	--	10
n-Hexane	ND		ug/kg	1690	--	10
Isopropyl Ether	ND		ug/kg	1690	--	10
trans-2-Hexene	ND		ug/kg	1690	--	10
2-Methyl-2-pentene	ND		ug/kg	1690	--	10
cis-2-Hexene	ND		ug/kg	1690	--	10
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1690	--	10
2,2-Dimethylpentane	ND		ug/kg	1690	--	10
Methylcyclopentane	ND		ug/kg	1690	--	10
2,4-Dimethylpentane	ND		ug/kg	1690	--	10
2,2,3-Trimethylbutane	ND		ug/kg	1690	--	10
1,2-Dichloroethane	ND		ug/kg	1690	--	10
3,3-Dimethylpentane	ND		ug/kg	1690	--	10
Cyclohexane	ND		ug/kg	1690	--	10

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-06 D
Client ID: ENV-8B-12.5'-15.0'
Sample Location: HAVERHILL, MA

Date Collected: 04/27/15 14:45
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
2-Methylhexane	ND		ug/kg	1690	--	10
Benzene	34200		ug/kg	1690	--	10
2,3-Dimethylpentane	ND		ug/kg	1690	--	10
Thiophene	ND		ug/kg	1690	--	10
1,1-Dimethylcyclopentane	ND		ug/kg	1690	--	10
3-Methylhexane	ND		ug/kg	1690	--	10
Tertiary-Amyl Methyl Ether	ND		ug/kg	1690	--	10
1,3-Dimethylcyclopentane (cis)	ND		ug/kg	1690	--	10
3-Ethylpentane	ND		ug/kg	1690	--	10
1,3-DMCP (trans)/2-Methyl-1-hexene	ND		ug/kg	3390	--	10
1-Heptene/1,2-DMCP (trans)	ND		ug/kg	3390	--	10
Isooctane	ND		ug/kg	1690	--	10
trans-3-Heptene	ND		ug/kg	1690	--	10
Heptane	2400		ug/kg	1690	--	10
cis-3-Heptene	ND		ug/kg	1690	--	10
trans-2-Heptene	ND		ug/kg	1690	--	10
cis-2-Heptene	ND		ug/kg	1690	--	10
2,2-Dimethylhexane	ND		ug/kg	1690	--	10
Methylcyclohexane	9520		ug/kg	1690	--	10
2,5-Dimethylhexane	ND		ug/kg	1690	--	10
2,4-Dimethylhexane	ND		ug/kg	1690	--	10
Ethylcyclopentane	ND		ug/kg	1690	--	10
2,2,3-Trimethylpentane	ND		ug/kg	1690	--	10
1,2,3-Trimethylcyclopentane (ctc)	ND		ug/kg	1690	--	10
2,3,4-Trimethylpentane	ND		ug/kg	1690	--	10
2,3,3-Trimethylpentane	ND		ug/kg	1690	--	10
2,3-Dimethylhexane	ND		ug/kg	1690	--	10
2-Methylheptane	3480		ug/kg	1690	--	10
4-Methylheptane	ND		ug/kg	1690	--	10
3-Methylheptane	3190		ug/kg	1690	--	10
3-Ethylhexane	ND		ug/kg	1690	--	10
Toluene	ND		ug/kg	1690	--	10
2-Methylthiophene	ND		ug/kg	1690	--	10
1,4-Dimethylcyclohexane (trans)	3220		ug/kg	1690	--	10
3-Methylthiophene	ND		ug/kg	1690	--	10
1-Octene	ND		ug/kg	1690	--	10
Octane	2030		ug/kg	1690	--	10
1,2-Dimethylcyclohexane (trans)	4640		ug/kg	1690	--	10
1,2-Dibromoethane	ND		ug/kg	1690	--	10

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-06 D
Client ID: ENV-8B-12.5'-15.0'
Sample Location: HAVERHILL, MA

Date Collected: 04/27/15 14:45
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
1,2,3-TMCP (ccc)/2-Octene (trans)	ND		ug/kg	3390	--	10
cis-2-Octene	ND		ug/kg	1690	--	10
Isopropylcyclopentane	ND		ug/kg	1690	--	10
1,2-Dimethylcyclohexane (cis)	ND		ug/kg	1690	--	10
2,5-Dimethylheptane	2580		ug/kg	1690	--	10
3,5-Dimethylheptane	ND		ug/kg	1690	--	10
3,3-Dimethylheptane	ND		ug/kg	1690	--	10
1,1,4-Trimethylcyclohexane	ND		ug/kg	1690	--	10
2,3-Dimethylheptane	3890		ug/kg	1690	--	10
3,4-Dimethylheptane	2070		ug/kg	1690	--	10
4-Methyloctane	3830		ug/kg	1690	--	10
2-Methyloctane	4810		ug/kg	1690	--	10
Ethylbenzene	104000		ug/kg	1690	--	10
2-Ethylthiophene	ND		ug/kg	1690	--	10
3-Methyloctane	6280		ug/kg	1690	--	10
3,3-Diethylpentane	ND		ug/kg	1690	--	10
p/m-Xylene	68600		ug/kg	3390	--	10
1-Nonene	ND		ug/kg	4240	--	10
trans-3-Nonene	ND		ug/kg	1690	--	10
cis-3-Nonene	ND		ug/kg	1690	--	10
Nonane (C9)	ND		ug/kg	1690	--	10
Styrene	ND		ug/kg	1690	--	10
o-Xylene	31400		ug/kg	1690	--	10
2-Nonene	ND		ug/kg	1690	--	10
Isopropylcyclohexane	5170		ug/kg	1690	--	10
Isopropylbenzene	5370		ug/kg	1690	--	10
3,3-Dimethyloctane	2340		ug/kg	1690	--	10
n-Propylbenzene	5960		ug/kg	1690	--	10
2-Methylnonane	7130		ug/kg	1690	--	10
3-Methylnonane	9030		ug/kg	1690	--	10
1-Methyl-3-Ethylbenzene	38600		ug/kg	1690	--	10
1-Methyl-4-Ethylbenzene	19500		ug/kg	1690	--	10
1,3,5-Trimethylbenzene	28000		ug/kg	1690	--	10
1-Decene	ND		ug/kg	1690	--	10
Isobutylcyclohexane	ND		ug/kg	1690	--	10
1-Methyl-2-Ethylbenzene	12600		ug/kg	1690	--	10
Decane (C10)	ND		ug/kg	1690	--	10
tert-Butylbenzene	ND		ug/kg	1690	--	10
1,2,4-Trimethylbenzene	66800		ug/kg	1690	--	10

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-06 D
Client ID: ENV-8B-12.5'-15.0'
Sample Location: HAVERHILL, MA

Date Collected: 04/27/15 14:45
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
Isobutylbenzene	3300		ug/kg	1690	--	10
sec-Butylbenzene	3600		ug/kg	1690	--	10
1-Methyl-3-Isopropylbenzene	8870		ug/kg	1690	--	10
1-Methyl-4-Isopropylbenzene	6360		ug/kg	1690	--	10
1,2,3-Trimethylbenzene	30400		ug/kg	1690	--	10
1-Methyl-2-Isopropylbenzene	1850		ug/kg	1690	--	10
Indane	83800		ug/kg	1690	--	10
1,3-Diethylbenzene	9880		ug/kg	1690	--	10
1-Methyl-3-N-Propylbenzene	17600		ug/kg	1690	--	10
Indene	3140		ug/kg	1690	--	10
1-Methyl-4-N-Propylbenzene	8640		ug/kg	1690	--	10
n-Butylbenzene	6200		ug/kg	1690	--	10
1,2-Dimethyl-4-Ethylbenzene	22100		ug/kg	1690	--	10
1,2-Diethylbenzene	2060		ug/kg	1690	--	10
1-Methyl-2-N-Propylbenzene	7970		ug/kg	1690	--	10
1,4-Dimethyl-2-Ethylbenzene	12900		ug/kg	1690	--	10
Undecane	ND		ug/kg	1690	--	10
1,3-Dimethyl-4-Ethylbenzene	15600		ug/kg	1690	--	10
1,3-Dimethyl-5-Ethylbenzene	21600		ug/kg	1690	--	10
1,3-Dimethyl-2-Ethylbenzene	7130		ug/kg	1690	--	10
1,2-Dimethyl-3-Ethylbenzene	9040		ug/kg	1690	--	10
1,2,4,5-Tetramethylbenzene	16200		ug/kg	1690	--	10
1,2,3,5-Tetramethylbenzene	27000		ug/kg	1690	--	10
N-Pentylbenzene	3360		ug/kg	1690	--	10
1,2,3,4-Tetramethylbenzene	20000		ug/kg	1690	--	10
1,3-Dimethyl-5-tert-Butylbenzene	ND		ug/kg	1690	--	10
Dodecane (C12)	ND		ug/kg	1690	--	10
1,3,5-Triethylbenzene	ND		ug/kg	1690	--	10
Naphthalene	332000	E	ug/kg	1690	--	10
Benzothiophene	3770		ug/kg	1690	--	10
1,2,4-Triethylbenzene	ND		ug/kg	1690	--	10
Hexylbenzene	5680		ug/kg	1690	--	10
MMT	ND		ug/kg	4240	--	10
Tridecane	ND		ug/kg	4240	--	10
2-Methylnaphthalene	235000	E	ug/kg	4240	--	10
1-Methylnaphthalene	143000		ug/kg	4240	--	10
Tetradecane (C14)	ND		ug/kg	4240	--	10
Pentadecane	ND		ug/kg	4240	--	10

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID:	L1508968-06	D	Date Collected:	04/27/15 14:45
Client ID:	ENV-8B-12.5'-15.0'		Date Received:	04/29/15
Sample Location:	HAVERHILL, MA		Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	107		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	101		70-130

Project Name: HAVERHILL,-284 WINTER ST.
Lab Number: L1508968
Project Number: 08-36060B
Report Date: 12/09/15

SAMPLE RESULTS

Lab ID:	L1508968-07	D2	Date Collected:	04/27/15 16:10
Client ID:	ENV-11B-15.0'-17.5'		Date Received:	04/29/15
Sample Location:	HAVERHILL, MA		Field Prep:	Not Specified
Matrix:	Soil			
Analytical Method:	1,8260B			
Analytical Date:	05/09/15 14:17			
Analyst:	MR			
Percent Solids:	82%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
Naphthalene	488000		ug/kg	18200	--	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	111		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	99		70-130

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID:	L1508968-07 D	Date Collected:	04/27/15 16:10
Client ID:	ENV-11B-15.0'-17.5'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	1,8260B		
Analytical Date:	05/08/15 21:14		
Analyst:	MR		
Percent Solids:	82%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
3-Methyl-1-butene	ND		ug/kg	3640	--	20
Isopentane	ND		ug/kg	3640	--	20
1-Pentene	ND		ug/kg	3640	--	20
2-Methyl-1-Butene	ND		ug/kg	3640	--	20
Pentane	ND		ug/kg	3640	--	20
trans-2-Pentene	ND		ug/kg	3640	--	20
Isoprene	ND		ug/kg	3640	--	20
cis-2-Pentene	ND		ug/kg	3640	--	20
Tertiary Butanol	ND		ug/kg	45400	--	20
2,2-Dimethylbutane	ND		ug/kg	3640	--	20
4-Methyl-1-pentene	ND		ug/kg	3640	--	20
Cyclopentane	ND		ug/kg	3640	--	20
2,3-Dimethylbutane	ND		ug/kg	3640	--	20
2-Methylpentane	ND		ug/kg	3640	--	20
Methyl tert butyl ether	ND		ug/kg	3640	--	20
3-Methylpentane	ND		ug/kg	3640	--	20
1-Hexene	ND		ug/kg	3640	--	20
n-Hexane	ND		ug/kg	3640	--	20
Isopropyl Ether	ND		ug/kg	3640	--	20
trans-2-Hexene	ND		ug/kg	3640	--	20
2-Methyl-2-pentene	ND		ug/kg	3640	--	20
cis-2-Hexene	ND		ug/kg	3640	--	20
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3640	--	20
2,2-Dimethylpentane	ND		ug/kg	3640	--	20
Methylcyclopentane	ND		ug/kg	3640	--	20
2,4-Dimethylpentane	ND		ug/kg	3640	--	20
2,2,3-Trimethylbutane	ND		ug/kg	3640	--	20
1,2-Dichloroethane	ND		ug/kg	3640	--	20
3,3-Dimethylpentane	ND		ug/kg	3640	--	20
Cyclohexane	ND		ug/kg	3640	--	20

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-07 D
Client ID: ENV-11B-15.0'-17.5'
Sample Location: HAVERHILL, MA

Date Collected: 04/27/15 16:10
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
2-Methylhexane	ND		ug/kg	3640	--	20
Benzene	41600		ug/kg	3640	--	20
2,3-Dimethylpentane	ND		ug/kg	3640	--	20
Thiophene	ND		ug/kg	3640	--	20
1,1-Dimethylcyclopentane	ND		ug/kg	3640	--	20
3-Methylhexane	ND		ug/kg	3640	--	20
Tertiary-Amyl Methyl Ether	ND		ug/kg	3640	--	20
1,3-Dimethylcyclopentane (cis)	ND		ug/kg	3640	--	20
3-Ethylpentane	ND		ug/kg	3640	--	20
1,3-DMCP (trans)/2-Methyl-1-hexene	ND		ug/kg	7270	--	20
1-Heptene/1,2-DMCP (trans)	ND		ug/kg	7270	--	20
Isooctane	ND		ug/kg	3640	--	20
trans-3-Heptene	ND		ug/kg	3640	--	20
Heptane	4400		ug/kg	3640	--	20
cis-3-Heptene	ND		ug/kg	3640	--	20
trans-2-Heptene	ND		ug/kg	3640	--	20
cis-2-Heptene	ND		ug/kg	3640	--	20
2,2-Dimethylhexane	ND		ug/kg	3640	--	20
Methylcyclohexane	14200		ug/kg	3640	--	20
2,5-Dimethylhexane	ND		ug/kg	3640	--	20
2,4-Dimethylhexane	ND		ug/kg	3640	--	20
Ethylcyclopentane	ND		ug/kg	3640	--	20
2,2,3-Trimethylpentane	ND		ug/kg	3640	--	20
1,2,3-Trimethylcyclopentane (ctc)	ND		ug/kg	3640	--	20
2,3,4-Trimethylpentane	ND		ug/kg	3640	--	20
2,3,3-Trimethylpentane	ND		ug/kg	3640	--	20
2,3-Dimethylhexane	ND		ug/kg	3640	--	20
2-Methylheptane	4490		ug/kg	3640	--	20
4-Methylheptane	ND		ug/kg	3640	--	20
3-Methylheptane	4570		ug/kg	3640	--	20
3-Ethylhexane	ND		ug/kg	3640	--	20
Toluene	306000		ug/kg	3640	--	20
2-Methylthiophene	ND		ug/kg	3640	--	20
1,4-Dimethylcyclohexane (trans)	4100		ug/kg	3640	--	20
3-Methylthiophene	ND		ug/kg	3640	--	20
1-Octene	ND		ug/kg	3640	--	20
Octane	13000		ug/kg	3640	--	20
1,2-Dimethylcyclohexane (trans)	5860		ug/kg	3640	--	20
1,2-Dibromoethane	ND		ug/kg	3640	--	20

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-07 D
Client ID: ENV-11B-15.0'-17.5'
Sample Location: HAVERHILL, MA

Date Collected: 04/27/15 16:10
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
1,2,3-TMCP (ccc)/2-Octene (trans)	ND		ug/kg	7270	--	20
cis-2-Octene	ND		ug/kg	3640	--	20
Isopropylcyclopentane	ND		ug/kg	3640	--	20
1,2-Dimethylcyclohexane (cis)	ND		ug/kg	3640	--	20
2,5-Dimethylheptane	ND		ug/kg	3640	--	20
3,5-Dimethylheptane	ND		ug/kg	3640	--	20
3,3-Dimethylheptane	ND		ug/kg	3640	--	20
1,1,4-Trimethylcyclohexane	ND		ug/kg	3640	--	20
2,3-Dimethylheptane	4150		ug/kg	3640	--	20
3,4-Dimethylheptane	ND		ug/kg	3640	--	20
4-Methyloctane	4490		ug/kg	3640	--	20
2-Methyloctane	5300		ug/kg	3640	--	20
Ethylbenzene	316000		ug/kg	3640	--	20
2-Ethylthiophene	ND		ug/kg	3640	--	20
3-Methyloctane	6900		ug/kg	3640	--	20
3,3-Diethylpentane	ND		ug/kg	3640	--	20
p/m-Xylene	403000		ug/kg	7270	--	20
1-Nonene	ND		ug/kg	9090	--	20
trans-3-Nonene	ND		ug/kg	3640	--	20
cis-3-Nonene	ND		ug/kg	3640	--	20
Nonane (C9)	38200		ug/kg	3640	--	20
Styrene	ND		ug/kg	3640	--	20
o-Xylene	161000		ug/kg	3640	--	20
2-Nonene	ND		ug/kg	3640	--	20
Isopropylcyclohexane	4880		ug/kg	3640	--	20
Isopropylbenzene	18000		ug/kg	3640	--	20
3,3-Dimethyloctane	ND		ug/kg	3640	--	20
n-Propylbenzene	12400		ug/kg	3640	--	20
2-Methylnonane	9270		ug/kg	3640	--	20
3-Methylnonane	8420		ug/kg	3640	--	20
1-Methyl-3-Ethylbenzene	116000		ug/kg	3640	--	20
1-Methyl-4-Ethylbenzene	55300		ug/kg	3640	--	20
1,3,5-Trimethylbenzene	46700		ug/kg	3640	--	20
1-Decene	ND		ug/kg	3640	--	20
Isobutylcyclohexane	ND		ug/kg	3640	--	20
1-Methyl-2-Ethylbenzene	18000		ug/kg	3640	--	20
Decane (C10)	63500		ug/kg	3640	--	20
tert-Butylbenzene	ND		ug/kg	3640	--	20
1,2,4-Trimethylbenzene	139000		ug/kg	3640	--	20

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-07 D
Client ID: ENV-11B-15.0'-17.5'
Sample Location: HAVERHILL, MA

Date Collected: 04/27/15 16:10
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
Isobutylbenzene	ND		ug/kg	3640	--	20
sec-Butylbenzene	ND		ug/kg	3640	--	20
1-Methyl-3-Isopropylbenzene	11100		ug/kg	3640	--	20
1-Methyl-4-Isopropylbenzene	6820		ug/kg	3640	--	20
1,2,3-Trimethylbenzene	43200		ug/kg	3640	--	20
1-Methyl-2-Isopropylbenzene	ND		ug/kg	3640	--	20
Indane	68400		ug/kg	3640	--	20
1,3-Diethylbenzene	12700		ug/kg	3640	--	20
1-Methyl-3-N-Propylbenzene	16000		ug/kg	3640	--	20
Indene	217000		ug/kg	3640	--	20
1-Methyl-4-N-Propylbenzene	9060		ug/kg	3640	--	20
n-Butylbenzene	7530		ug/kg	3640	--	20
1,2-Dimethyl-4-Ethylbenzene	23500		ug/kg	3640	--	20
1,2-Diethylbenzene	ND		ug/kg	3640	--	20
1-Methyl-2-N-Propylbenzene	7100		ug/kg	3640	--	20
1,4-Dimethyl-2-Ethylbenzene	14900		ug/kg	3640	--	20
Undecane	88700		ug/kg	3640	--	20
1,3-Dimethyl-4-Ethylbenzene	16600		ug/kg	3640	--	20
1,3-Dimethyl-5-Ethylbenzene	27500		ug/kg	3640	--	20
1,3-Dimethyl-2-Ethylbenzene	4170		ug/kg	3640	--	20
1,2-Dimethyl-3-Ethylbenzene	8210		ug/kg	3640	--	20
1,2,4,5-Tetramethylbenzene	19000		ug/kg	3640	--	20
1,2,3,5-Tetramethylbenzene	35500		ug/kg	3640	--	20
N-Pentylbenzene	4480		ug/kg	3640	--	20
1,2,3,4-Tetramethylbenzene	21900		ug/kg	3640	--	20
1,3-Dimethyl-5-tert-Butylbenzene	ND		ug/kg	3640	--	20
Dodecane (C12)	84900		ug/kg	3640	--	20
1,3,5-Triethylbenzene	ND		ug/kg	3640	--	20
Naphthalene	540000	E	ug/kg	3640	--	20
Benzothiophene	12900		ug/kg	3640	--	20
1,2,4-Triethylbenzene	ND		ug/kg	3640	--	20
Hexylbenzene	6380		ug/kg	3640	--	20
MMT	ND		ug/kg	9090	--	20
Tridecane	91400		ug/kg	9090	--	20
2-Methylnaphthalene	348000		ug/kg	9090	--	20
1-Methylnaphthalene	200000		ug/kg	9090	--	20
Tetradecane (C14)	88500		ug/kg	9090	--	20
Pentadecane	93500		ug/kg	9090	--	20

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID:	L1508968-07 D	Date Collected:	04/27/15 16:10
Client ID:	ENV-11B-15.0'-17.5'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	107		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	101		70-130

Project Name: HAVERHILL,-284 WINTER ST.
Lab Number: L1508968
Project Number: 08-36060B
Report Date: 12/09/15

SAMPLE RESULTS

Lab ID:	L1508968-08	D2	Date Collected:	04/28/15 09:30
Client ID:	ENV-1B-15.0'-17.5'		Date Received:	04/29/15
Sample Location:	HAVERHILL, MA		Field Prep:	Not Specified
Matrix:	Soil			
Analytical Method:	1,8260B			
Analytical Date:	05/09/15 15:33			
Analyst:	MR			
Percent Solids:	86%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
Naphthalene	107000		ug/kg	4100	--	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	107		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID:	L1508968-08	D	Date Collected:	04/28/15 09:30
Client ID:	ENV-1B-15.0'-17.5'		Date Received:	04/29/15
Sample Location:	HAVERHILL, MA		Field Prep:	Not Specified
Matrix:	Soil			
Analytical Method:	1,8260B			
Analytical Date:	05/08/15 22:29			
Analyst:	MR			
Percent Solids:	86%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
3-Methyl-1-butene	ND		ug/kg	819	--	5
Isopentane	1130		ug/kg	819	--	5
1-Pentene	ND		ug/kg	819	--	5
2-Methyl-1-Butene	ND		ug/kg	819	--	5
Pentane	ND		ug/kg	819	--	5
trans-2-Pentene	ND		ug/kg	819	--	5
Isoprene	ND		ug/kg	819	--	5
cis-2-Pentene	ND		ug/kg	819	--	5
Tertiary Butanol	ND		ug/kg	10200	--	5
2,2-Dimethylbutane	ND		ug/kg	819	--	5
4-Methyl-1-pentene	ND		ug/kg	819	--	5
Cyclopentane	ND		ug/kg	819	--	5
2,3-Dimethylbutane	ND		ug/kg	819	--	5
2-Methylpentane	ND		ug/kg	819	--	5
Methyl tert butyl ether	ND		ug/kg	819	--	5
3-Methylpentane	ND		ug/kg	819	--	5
1-Hexene	ND		ug/kg	819	--	5
n-Hexane	ND		ug/kg	819	--	5
Isopropyl Ether	ND		ug/kg	819	--	5
trans-2-Hexene	ND		ug/kg	819	--	5
2-Methyl-2-pentene	ND		ug/kg	819	--	5
cis-2-Hexene	ND		ug/kg	819	--	5
Ethyl-Tert-Butyl-Ether	ND		ug/kg	819	--	5
2,2-Dimethylpentane	ND		ug/kg	819	--	5
Methylcyclopentane	ND		ug/kg	819	--	5
2,4-Dimethylpentane	ND		ug/kg	819	--	5
2,2,3-Trimethylbutane	ND		ug/kg	819	--	5
1,2-Dichloroethane	ND		ug/kg	819	--	5
3,3-Dimethylpentane	ND		ug/kg	819	--	5
Cyclohexane	ND		ug/kg	819	--	5

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-08 D
Client ID: ENV-1B-15.0'-17.5'
Sample Location: HAVERHILL, MA

Date Collected: 04/28/15 09:30
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
2-Methylhexane	ND		ug/kg	819	--	5
Benzene	ND		ug/kg	819	--	5
2,3-Dimethylpentane	ND		ug/kg	819	--	5
Thiophene	ND		ug/kg	819	--	5
1,1-Dimethylcyclopentane	ND		ug/kg	819	--	5
3-Methylhexane	ND		ug/kg	819	--	5
Tertiary-Amyl Methyl Ether	ND		ug/kg	819	--	5
1,3-Dimethylcyclopentane (cis)	ND		ug/kg	819	--	5
3-Ethylpentane	ND		ug/kg	819	--	5
1,3-DMCP (trans)/2-Methyl-1-hexene	ND		ug/kg	1640	--	5
1-Heptene/1,2-DMCP (trans)	ND		ug/kg	1640	--	5
Isooctane	ND		ug/kg	819	--	5
trans-3-Heptene	ND		ug/kg	819	--	5
Heptane	ND		ug/kg	819	--	5
cis-3-Heptene	ND		ug/kg	819	--	5
trans-2-Heptene	ND		ug/kg	819	--	5
cis-2-Heptene	ND		ug/kg	819	--	5
2,2-Dimethylhexane	ND		ug/kg	819	--	5
Methylcyclohexane	ND		ug/kg	819	--	5
2,5-Dimethylhexane	ND		ug/kg	819	--	5
2,4-Dimethylhexane	ND		ug/kg	819	--	5
Ethylcyclopentane	ND		ug/kg	819	--	5
2,2,3-Trimethylpentane	ND		ug/kg	819	--	5
1,2,3-Trimethylcyclopentane (ctc)	ND		ug/kg	819	--	5
2,3,4-Trimethylpentane	ND		ug/kg	819	--	5
2,3,3-Trimethylpentane	ND		ug/kg	819	--	5
2,3-Dimethylhexane	ND		ug/kg	819	--	5
2-Methylheptane	ND		ug/kg	819	--	5
4-Methylheptane	ND		ug/kg	819	--	5
3-Methylheptane	ND		ug/kg	819	--	5
3-Ethylhexane	ND		ug/kg	819	--	5
Toluene	ND		ug/kg	819	--	5
2-Methylthiophene	ND		ug/kg	819	--	5
1,4-Dimethylcyclohexane (trans)	ND		ug/kg	819	--	5
3-Methylthiophene	ND		ug/kg	819	--	5
1-Octene	ND		ug/kg	819	--	5
Octane	ND		ug/kg	819	--	5
1,2-Dimethylcyclohexane (trans)	ND		ug/kg	819	--	5
1,2-Dibromoethane	ND		ug/kg	819	--	5

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-08 D
Client ID: ENV-1B-15.0'-17.5'
Sample Location: HAVERHILL, MA

Date Collected: 04/28/15 09:30
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
1,2,3-TMCP (ccc)/2-Octene (trans)	ND		ug/kg	1640	--	5
cis-2-Octene	ND		ug/kg	819	--	5
Isopropylcyclopentane	ND		ug/kg	819	--	5
1,2-Dimethylcyclohexane (cis)	ND		ug/kg	819	--	5
2,5-Dimethylheptane	ND		ug/kg	819	--	5
3,5-Dimethylheptane	ND		ug/kg	819	--	5
3,3-Dimethylheptane	ND		ug/kg	819	--	5
1,1,4-Trimethylcyclohexane	ND		ug/kg	819	--	5
2,3-Dimethylheptane	ND		ug/kg	819	--	5
3,4-Dimethylheptane	ND		ug/kg	819	--	5
4-Methyloctane	ND		ug/kg	819	--	5
2-Methyloctane	ND		ug/kg	819	--	5
Ethylbenzene	20000		ug/kg	819	--	5
2-Ethylthiophene	ND		ug/kg	819	--	5
3-Methyloctane	ND		ug/kg	819	--	5
3,3-Diethylpentane	ND		ug/kg	819	--	5
p/m-Xylene	17600		ug/kg	1640	--	5
1-Nonene	ND		ug/kg	2050	--	5
trans-3-Nonene	ND		ug/kg	819	--	5
cis-3-Nonene	ND		ug/kg	819	--	5
Nonane (C9)	ND		ug/kg	819	--	5
Styrene	ND		ug/kg	819	--	5
o-Xylene	8200		ug/kg	819	--	5
2-Nonene	ND		ug/kg	819	--	5
Isopropylcyclohexane	ND		ug/kg	819	--	5
Isopropylbenzene	7240		ug/kg	819	--	5
3,3-Dimethyloctane	ND		ug/kg	819	--	5
n-Propylbenzene	4650		ug/kg	819	--	5
2-Methylnonane	ND		ug/kg	819	--	5
3-Methylnonane	ND		ug/kg	819	--	5
1-Methyl-3-Ethylbenzene	23400		ug/kg	819	--	5
1-Methyl-4-Ethylbenzene	17200		ug/kg	819	--	5
1,3,5-Trimethylbenzene	9330		ug/kg	819	--	5
1-Decene	ND		ug/kg	819	--	5
Isobutylcyclohexane	ND		ug/kg	819	--	5
1-Methyl-2-Ethylbenzene	7020		ug/kg	819	--	5
Decane (C10)	1100		ug/kg	819	--	5
tert-Butylbenzene	ND		ug/kg	819	--	5
1,2,4-Trimethylbenzene	28800		ug/kg	819	--	5

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-08 D Date Collected: 04/28/15 09:30
Client ID: ENV-1B-15.0'-17.5' Date Received: 04/29/15
Sample Location: HAVERHILL, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
Isobutylbenzene	ND		ug/kg	819	--	5
sec-Butylbenzene	ND		ug/kg	819	--	5
1-Methyl-3-Isopropylbenzene	6410		ug/kg	819	--	5
1-Methyl-4-Isopropylbenzene	3630		ug/kg	819	--	5
1,2,3-Trimethylbenzene	7070		ug/kg	819	--	5
1-Methyl-2-Isopropylbenzene	ND		ug/kg	819	--	5
Indane	28000		ug/kg	819	--	5
1,3-Diethylbenzene	14200		ug/kg	819	--	5
1-Methyl-3-N-Propylbenzene	2720		ug/kg	819	--	5
Indene	1630		ug/kg	819	--	5
1-Methyl-4-N-Propylbenzene	3560		ug/kg	819	--	5
n-Butylbenzene	ND		ug/kg	819	--	5
1,2-Dimethyl-4-Ethylbenzene	13000		ug/kg	819	--	5
1,2-Diethylbenzene	ND		ug/kg	819	--	5
1-Methyl-2-N-Propylbenzene	1330		ug/kg	819	--	5
1,4-Dimethyl-2-Ethylbenzene	5720		ug/kg	819	--	5
Undecane	2050		ug/kg	819	--	5
1,3-Dimethyl-4-Ethylbenzene	4750		ug/kg	819	--	5
1,3-Dimethyl-5-Ethylbenzene	16600		ug/kg	819	--	5
1,3-Dimethyl-2-Ethylbenzene	ND		ug/kg	819	--	5
1,2-Dimethyl-3-Ethylbenzene	1620		ug/kg	819	--	5
1,2,4,5-Tetramethylbenzene	5450		ug/kg	819	--	5
1,2,3,5-Tetramethylbenzene	10300		ug/kg	819	--	5
N-Pentylbenzene	ND		ug/kg	819	--	5
1,2,3,4-Tetramethylbenzene	5290		ug/kg	819	--	5
1,3-Dimethyl-5-tert-Butylbenzene	ND		ug/kg	819	--	5
Dodecane (C12)	1890		ug/kg	819	--	5
1,3,5-Triethylbenzene	ND		ug/kg	819	--	5
Naphthalene	116000	E	ug/kg	819	--	5
Benzothiophene	1380		ug/kg	819	--	5
1,2,4-Triethylbenzene	ND		ug/kg	819	--	5
Hexylbenzene	ND		ug/kg	819	--	5
MMT	ND		ug/kg	2050	--	5
Tridecane	ND		ug/kg	2050	--	5
2-Methylnaphthalene	49400		ug/kg	2050	--	5
1-Methylnaphthalene	44300		ug/kg	2050	--	5
Tetradecane (C14)	ND		ug/kg	2050	--	5
Pentadecane	ND		ug/kg	2050	--	5

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID:	L1508968-08	D	Date Collected:	04/28/15 09:30
Client ID:	ENV-1B-15.0'-17.5'		Date Received:	04/29/15
Sample Location:	HAVERHILL, MA		Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

PIANO Volatile Organics by EPA 5035 High - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	108		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID:	L1508968-10	D2	Date Collected:	04/28/15 11:00
Client ID:	ENV-3B-12.5'-15.0'		Date Received:	04/29/15
Sample Location:	HAVERHILL, MA		Field Prep:	Not Specified
Matrix:	Soil			
Analytical Method:	1,8260B			
Analytical Date:	05/09/15 16:49			
Analyst:	MR			
Percent Solids:	83%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
Indane	764000		ug/kg	94200	--	500
Naphthalene	2800000		ug/kg	94200	--	500
2-Methylnaphthalene	1230000		ug/kg	236000	--	500
1-Methylnaphthalene	765000		ug/kg	236000	--	500

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	108		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID:	L1508968-10	D	Date Collected:	04/28/15 11:00
Client ID:	ENV-3B-12.5'-15.0'		Date Received:	04/29/15
Sample Location:	HAVERHILL, MA		Field Prep:	Not Specified
Matrix:	Soil			
Analytical Method:	1,8260B			
Analytical Date:	05/08/15 23:44			
Analyst:	MR			
Percent Solids:	83%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
3-Methyl-1-butene	ND		ug/kg	9420	--	50
Isopentane	ND		ug/kg	9420	--	50
1-Pentene	ND		ug/kg	9420	--	50
2-Methyl-1-Butene	ND		ug/kg	9420	--	50
Pentane	ND		ug/kg	9420	--	50
trans-2-Pentene	ND		ug/kg	9420	--	50
Isoprene	ND		ug/kg	9420	--	50
cis-2-Pentene	ND		ug/kg	9420	--	50
Tertiary Butanol	ND		ug/kg	118000	--	50
2,2-Dimethylbutane	ND		ug/kg	9420	--	50
4-Methyl-1-pentene	ND		ug/kg	9420	--	50
Cyclopentane	ND		ug/kg	9420	--	50
2,3-Dimethylbutane	ND		ug/kg	9420	--	50
2-Methylpentane	ND		ug/kg	9420	--	50
Methyl tert butyl ether	ND		ug/kg	9420	--	50
3-Methylpentane	ND		ug/kg	9420	--	50
1-Hexene	ND		ug/kg	9420	--	50
n-Hexane	ND		ug/kg	9420	--	50
Isopropyl Ether	ND		ug/kg	9420	--	50
trans-2-Hexene	ND		ug/kg	9420	--	50
2-Methyl-2-pentene	ND		ug/kg	9420	--	50
cis-2-Hexene	ND		ug/kg	9420	--	50
Ethyl-Tert-Butyl-Ether	ND		ug/kg	9420	--	50
2,2-Dimethylpentane	ND		ug/kg	9420	--	50
Methylcyclopentane	ND		ug/kg	9420	--	50
2,4-Dimethylpentane	ND		ug/kg	9420	--	50
2,2,3-Trimethylbutane	ND		ug/kg	9420	--	50
1,2-Dichloroethane	ND		ug/kg	9420	--	50
3,3-Dimethylpentane	ND		ug/kg	9420	--	50
Cyclohexane	ND		ug/kg	9420	--	50

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-10 D
Client ID: ENV-3B-12.5'-15.0'
Sample Location: HAVERHILL, MA

Date Collected: 04/28/15 11:00
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
2-Methylhexane	ND		ug/kg	9420	--	50
Benzene	30600		ug/kg	9420	--	50
2,3-Dimethylpentane	ND		ug/kg	9420	--	50
Thiophene	ND		ug/kg	9420	--	50
1,1-Dimethylcyclopentane	ND		ug/kg	9420	--	50
3-Methylhexane	ND		ug/kg	9420	--	50
Tertiary-Amyl Methyl Ether	ND		ug/kg	9420	--	50
1,3-Dimethylcyclopentane (cis)	ND		ug/kg	9420	--	50
3-Ethylpentane	ND		ug/kg	9420	--	50
1,3-DMCP (trans)/2-Methyl-1-hexene	ND		ug/kg	18800	--	50
1-Heptene/1,2-DMCP (trans)	ND		ug/kg	18800	--	50
Isooctane	ND		ug/kg	9420	--	50
trans-3-Heptene	ND		ug/kg	9420	--	50
Heptane	ND		ug/kg	9420	--	50
cis-3-Heptene	ND		ug/kg	9420	--	50
trans-2-Heptene	ND		ug/kg	9420	--	50
cis-2-Heptene	ND		ug/kg	9420	--	50
2,2-Dimethylhexane	ND		ug/kg	9420	--	50
Methylcyclohexane	ND		ug/kg	9420	--	50
2,5-Dimethylhexane	ND		ug/kg	9420	--	50
2,4-Dimethylhexane	ND		ug/kg	9420	--	50
Ethylcyclopentane	ND		ug/kg	9420	--	50
2,2,3-Trimethylpentane	ND		ug/kg	9420	--	50
1,2,3-Trimethylcyclopentane (ctc)	ND		ug/kg	9420	--	50
2,3,4-Trimethylpentane	ND		ug/kg	9420	--	50
2,3,3-Trimethylpentane	ND		ug/kg	9420	--	50
2,3-Dimethylhexane	ND		ug/kg	9420	--	50
2-Methylheptane	ND		ug/kg	9420	--	50
4-Methylheptane	ND		ug/kg	9420	--	50
3-Methylheptane	ND		ug/kg	9420	--	50
3-Ethylhexane	ND		ug/kg	9420	--	50
Toluene	ND		ug/kg	9420	--	50
2-Methylthiophene	ND		ug/kg	9420	--	50
1,4-Dimethylcyclohexane (trans)	ND		ug/kg	9420	--	50
3-Methylthiophene	ND		ug/kg	9420	--	50
1-Octene	ND		ug/kg	9420	--	50
Octane	ND		ug/kg	9420	--	50
1,2-Dimethylcyclohexane (trans)	ND		ug/kg	9420	--	50
1,2-Dibromoethane	ND		ug/kg	9420	--	50

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-10 D
Client ID: ENV-3B-12.5'-15.0'
Sample Location: HAVERHILL, MA

Date Collected: 04/28/15 11:00
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
1,2,3-TMCP (ccc)/2-Octene (trans)	ND		ug/kg	18800	--	50
cis-2-Octene	ND		ug/kg	9420	--	50
Isopropylcyclopentane	ND		ug/kg	9420	--	50
1,2-Dimethylcyclohexane (cis)	ND		ug/kg	9420	--	50
2,5-Dimethylheptane	ND		ug/kg	9420	--	50
3,5-Dimethylheptane	ND		ug/kg	9420	--	50
3,3-Dimethylheptane	ND		ug/kg	9420	--	50
1,1,4-Trimethylcyclohexane	ND		ug/kg	9420	--	50
2,3-Dimethylheptane	ND		ug/kg	9420	--	50
3,4-Dimethylheptane	ND		ug/kg	9420	--	50
4-Methyloctane	ND		ug/kg	9420	--	50
2-Methyloctane	ND		ug/kg	9420	--	50
Ethylbenzene	346000		ug/kg	9420	--	50
2-Ethylthiophene	ND		ug/kg	9420	--	50
3-Methyloctane	ND		ug/kg	9420	--	50
3,3-Diethylpentane	ND		ug/kg	9420	--	50
p/m-Xylene	115000		ug/kg	18800	--	50
1-Nonene	ND		ug/kg	23600	--	50
trans-3-Nonene	ND		ug/kg	9420	--	50
cis-3-Nonene	ND		ug/kg	9420	--	50
Nonane (C9)	ND		ug/kg	9420	--	50
Styrene	ND		ug/kg	9420	--	50
o-Xylene	162000		ug/kg	9420	--	50
2-Nonene	ND		ug/kg	9420	--	50
Isopropylcyclohexane	ND		ug/kg	9420	--	50
Isopropylbenzene	52900		ug/kg	9420	--	50
3,3-Dimethyloctane	ND		ug/kg	9420	--	50
n-Propylbenzene	22700		ug/kg	9420	--	50
2-Methylnonane	ND		ug/kg	9420	--	50
3-Methylnonane	ND		ug/kg	9420	--	50
1-Methyl-3-Ethylbenzene	23000		ug/kg	9420	--	50
1-Methyl-4-Ethylbenzene	122000		ug/kg	9420	--	50
1,3,5-Trimethylbenzene	79100		ug/kg	9420	--	50
1-Decene	ND		ug/kg	9420	--	50
Isobutylcyclohexane	ND		ug/kg	9420	--	50
1-Methyl-2-Ethylbenzene	66400		ug/kg	9420	--	50
Decane (C10)	12700		ug/kg	9420	--	50
tert-Butylbenzene	ND		ug/kg	9420	--	50
1,2,4-Trimethylbenzene	363000		ug/kg	9420	--	50

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-10 D
Client ID: ENV-3B-12.5'-15.0'
Sample Location: HAVERHILL, MA

Date Collected: 04/28/15 11:00
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
Isobutylbenzene	ND		ug/kg	9420	--	50
sec-Butylbenzene	ND		ug/kg	9420	--	50
1-Methyl-3-Isopropylbenzene	31700		ug/kg	9420	--	50
1-Methyl-4-Isopropylbenzene	27100		ug/kg	9420	--	50
1,2,3-Trimethylbenzene	135000		ug/kg	9420	--	50
1-Methyl-2-Isopropylbenzene	ND		ug/kg	9420	--	50
Indane	992000	E	ug/kg	9420	--	50
1,3-Diethylbenzene	60200		ug/kg	9420	--	50
1-Methyl-3-N-Propylbenzene	18800		ug/kg	9420	--	50
Indene	11500		ug/kg	9420	--	50
1-Methyl-4-N-Propylbenzene	23200		ug/kg	9420	--	50
n-Butylbenzene	17200		ug/kg	9420	--	50
1,2-Dimethyl-4-Ethylbenzene	79400		ug/kg	9420	--	50
1,2-Diethylbenzene	ND		ug/kg	9420	--	50
1-Methyl-2-N-Propylbenzene	13800		ug/kg	9420	--	50
1,4-Dimethyl-2-Ethylbenzene	40400		ug/kg	9420	--	50
Undecane	10600		ug/kg	9420	--	50
1,3-Dimethyl-4-Ethylbenzene	47700		ug/kg	9420	--	50
1,3-Dimethyl-5-Ethylbenzene	118000		ug/kg	9420	--	50
1,3-Dimethyl-2-Ethylbenzene	9740		ug/kg	9420	--	50
1,2-Dimethyl-3-Ethylbenzene	20600		ug/kg	9420	--	50
1,2,4,5-Tetramethylbenzene	57200		ug/kg	9420	--	50
1,2,3,5-Tetramethylbenzene	99400		ug/kg	9420	--	50
N-Pentylbenzene	ND		ug/kg	9420	--	50
1,2,3,4-Tetramethylbenzene	68400		ug/kg	9420	--	50
1,3-Dimethyl-5-tert-Butylbenzene	ND		ug/kg	9420	--	50
Dodecane (C12)	ND		ug/kg	9420	--	50
1,3,5-Triethylbenzene	ND		ug/kg	9420	--	50
Naphthalene	3370000	E	ug/kg	9420	--	50
Benzothiophene	81800		ug/kg	9420	--	50
1,2,4-Triethylbenzene	ND		ug/kg	9420	--	50
Hexylbenzene	10100		ug/kg	9420	--	50
MMT	ND		ug/kg	23600	--	50
Tridecane	ND		ug/kg	23600	--	50
2-Methylnaphthalene	1520000	E	ug/kg	23600	--	50
1-Methylnaphthalene	945000	E	ug/kg	23600	--	50
Tetradecane (C14)	ND		ug/kg	23600	--	50
Pentadecane	ND		ug/kg	23600	--	50

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-10 D
Client ID: ENV-3B-12.5'-15.0'
Sample Location: HAVERHILL, MA

Date Collected: 04/28/15 11:00
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

PIANO Volatile Organics by EPA 5035 High - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	108		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	100		70-130

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID:	L1508968-13 D2	Date Collected:	04/28/15 13:35
Client ID:	ENV-12B-15.0'-17.5'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	1,8260B		
Analytical Date:	05/09/15 18:04		
Analyst:	MR		
Percent Solids:	89%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
Naphthalene	656000		ug/kg	25500	--	200
2-Methylnaphthalene	614000		ug/kg	63800	--	200
1-Methylnaphthalene	424000		ug/kg	63800	--	200

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	107		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	99		70-130

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID:	L1508968-13 D	Date Collected:	04/28/15 13:35
Client ID:	ENV-12B-15.0'-17.5'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	1,8260B		
Analytical Date:	05/09/15 00:59		
Analyst:	MR		
Percent Solids:	89%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
3-Methyl-1-butene	ND		ug/kg	2550	--	20
Isopentane	13400		ug/kg	2550	--	20
1-Pentene	ND		ug/kg	2550	--	20
2-Methyl-1-Butene	ND		ug/kg	2550	--	20
Pentane	3550		ug/kg	2550	--	20
trans-2-Pentene	ND		ug/kg	2550	--	20
Isoprene	ND		ug/kg	2550	--	20
cis-2-Pentene	ND		ug/kg	2550	--	20
Tertiary Butanol	ND		ug/kg	31900	--	20
2,2-Dimethylbutane	ND		ug/kg	2550	--	20
4-Methyl-1-pentene	ND		ug/kg	2550	--	20
Cyclopentane	ND		ug/kg	2550	--	20
2,3-Dimethylbutane	ND		ug/kg	2550	--	20
2-Methylpentane	ND		ug/kg	2550	--	20
Methyl tert butyl ether	ND		ug/kg	2550	--	20
3-Methylpentane	ND		ug/kg	2550	--	20
1-Hexene	ND		ug/kg	2550	--	20
n-Hexane	ND		ug/kg	2550	--	20
Isopropyl Ether	ND		ug/kg	2550	--	20
trans-2-Hexene	ND		ug/kg	2550	--	20
2-Methyl-2-pentene	ND		ug/kg	2550	--	20
cis-2-Hexene	ND		ug/kg	2550	--	20
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2550	--	20
2,2-Dimethylpentane	ND		ug/kg	2550	--	20
Methylcyclopentane	ND		ug/kg	2550	--	20
2,4-Dimethylpentane	ND		ug/kg	2550	--	20
2,2,3-Trimethylbutane	ND		ug/kg	2550	--	20
1,2-Dichloroethane	ND		ug/kg	2550	--	20
3,3-Dimethylpentane	ND		ug/kg	2550	--	20
Cyclohexane	ND		ug/kg	2550	--	20

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-13 D
Client ID: ENV-12B-15.0'-17.5'
Sample Location: HAVERHILL, MA

Date Collected: 04/28/15 13:35
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
2-Methylhexane	ND		ug/kg	2550	--	20
Benzene	78000		ug/kg	2550	--	20
2,3-Dimethylpentane	ND		ug/kg	2550	--	20
Thiophene	ND		ug/kg	2550	--	20
1,1-Dimethylcyclopentane	ND		ug/kg	2550	--	20
3-Methylhexane	ND		ug/kg	2550	--	20
Tertiary-Amyl Methyl Ether	ND		ug/kg	2550	--	20
1,3-Dimethylcyclopentane (cis)	ND		ug/kg	2550	--	20
3-Ethylpentane	ND		ug/kg	2550	--	20
1,3-DMCP (trans)/2-Methyl-1-hexene	ND		ug/kg	5100	--	20
1-Heptene/1,2-DMCP (trans)	ND		ug/kg	5100	--	20
Isooctane	ND		ug/kg	2550	--	20
trans-3-Heptene	ND		ug/kg	2550	--	20
Heptane	4500		ug/kg	2550	--	20
cis-3-Heptene	ND		ug/kg	2550	--	20
trans-2-Heptene	ND		ug/kg	2550	--	20
cis-2-Heptene	ND		ug/kg	2550	--	20
2,2-Dimethylhexane	ND		ug/kg	2550	--	20
Methylcyclohexane	13600		ug/kg	2550	--	20
2,5-Dimethylhexane	ND		ug/kg	2550	--	20
2,4-Dimethylhexane	ND		ug/kg	2550	--	20
Ethylcyclopentane	ND		ug/kg	2550	--	20
2,2,3-Trimethylpentane	ND		ug/kg	2550	--	20
1,2,3-Trimethylcyclopentane (ctc)	ND		ug/kg	2550	--	20
2,3,4-Trimethylpentane	ND		ug/kg	2550	--	20
2,3,3-Trimethylpentane	ND		ug/kg	2550	--	20
2,3-Dimethylhexane	ND		ug/kg	2550	--	20
2-Methylheptane	3740		ug/kg	2550	--	20
4-Methylheptane	ND		ug/kg	2550	--	20
3-Methylheptane	3380		ug/kg	2550	--	20
3-Ethylhexane	ND		ug/kg	2550	--	20
Toluene	91200		ug/kg	2550	--	20
2-Methylthiophene	ND		ug/kg	2550	--	20
1,4-Dimethylcyclohexane (trans)	4310		ug/kg	2550	--	20
3-Methylthiophene	ND		ug/kg	2550	--	20
1-Octene	ND		ug/kg	2550	--	20
Octane	10900		ug/kg	2550	--	20
1,2-Dimethylcyclohexane (trans)	5080		ug/kg	2550	--	20
1,2-Dibromoethane	ND		ug/kg	2550	--	20

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-13 D
Client ID: ENV-12B-15.0'-17.5'
Sample Location: HAVERHILL, MA

Date Collected: 04/28/15 13:35
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
1,2,3-TMCP (ccc)/2-Octene (trans)	ND		ug/kg	5100	--	20
cis-2-Octene	ND		ug/kg	2550	--	20
Isopropylcyclopentane	ND		ug/kg	2550	--	20
1,2-Dimethylcyclohexane (cis)	ND		ug/kg	2550	--	20
2,5-Dimethylheptane	ND		ug/kg	2550	--	20
3,5-Dimethylheptane	ND		ug/kg	2550	--	20
3,3-Dimethylheptane	ND		ug/kg	2550	--	20
1,1,4-Trimethylcyclohexane	ND		ug/kg	2550	--	20
2,3-Dimethylheptane	3280		ug/kg	2550	--	20
3,4-Dimethylheptane	ND		ug/kg	2550	--	20
4-Methyloctane	3040		ug/kg	2550	--	20
2-Methyloctane	4940		ug/kg	2550	--	20
Ethylbenzene	65500		ug/kg	2550	--	20
2-Ethylthiophene	ND		ug/kg	2550	--	20
3-Methyloctane	5570		ug/kg	2550	--	20
3,3-Diethylpentane	ND		ug/kg	2550	--	20
p/m-Xylene	92400		ug/kg	5100	--	20
1-Nonene	ND		ug/kg	6380	--	20
trans-3-Nonene	ND		ug/kg	2550	--	20
cis-3-Nonene	ND		ug/kg	2550	--	20
Nonane (C9)	30600		ug/kg	2550	--	20
Styrene	ND		ug/kg	2550	--	20
o-Xylene	50200		ug/kg	2550	--	20
2-Nonene	ND		ug/kg	2550	--	20
Isopropylcyclohexane	5040		ug/kg	2550	--	20
Isopropylbenzene	8360		ug/kg	2550	--	20
3,3-Dimethyloctane	ND		ug/kg	2550	--	20
n-Propylbenzene	9240		ug/kg	2550	--	20
2-Methylnonane	8100		ug/kg	2550	--	20
3-Methylnonane	7940		ug/kg	2550	--	20
1-Methyl-3-Ethylbenzene	48600		ug/kg	2550	--	20
1-Methyl-4-Ethylbenzene	29900		ug/kg	2550	--	20
1,3,5-Trimethylbenzene	35900		ug/kg	2550	--	20
1-Decene	ND		ug/kg	2550	--	20
Isobutylcyclohexane	ND		ug/kg	2550	--	20
1-Methyl-2-Ethylbenzene	15100		ug/kg	2550	--	20
Decane (C10)	56500		ug/kg	2550	--	20
tert-Butylbenzene	ND		ug/kg	2550	--	20
1,2,4-Trimethylbenzene	111000		ug/kg	2550	--	20

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-13 D
Client ID: ENV-12B-15.0'-17.5'
Sample Location: HAVERHILL, MA

Date Collected: 04/28/15 13:35
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab						
Isobutylbenzene	3340		ug/kg	2550	--	20
sec-Butylbenzene	4120		ug/kg	2550	--	20
1-Methyl-3-Isopropylbenzene	10500		ug/kg	2550	--	20
1-Methyl-4-Isopropylbenzene	7900		ug/kg	2550	--	20
1,2,3-Trimethylbenzene	44800		ug/kg	2550	--	20
1-Methyl-2-Isopropylbenzene	ND		ug/kg	2550	--	20
Indane	93900		ug/kg	2550	--	20
1,3-Diethylbenzene	12100		ug/kg	2550	--	20
1-Methyl-3-N-Propylbenzene	19800		ug/kg	2550	--	20
Indene	76900		ug/kg	2550	--	20
1-Methyl-4-N-Propylbenzene	11100		ug/kg	2550	--	20
n-Butylbenzene	8990		ug/kg	2550	--	20
1,2-Dimethyl-4-Ethylbenzene	27800		ug/kg	2550	--	20
1,2-Diethylbenzene	2670		ug/kg	2550	--	20
1-Methyl-2-N-Propylbenzene	9960		ug/kg	2550	--	20
1,4-Dimethyl-2-Ethylbenzene	18800		ug/kg	2550	--	20
Undecane	81300		ug/kg	2550	--	20
1,3-Dimethyl-4-Ethylbenzene	22000		ug/kg	2550	--	20
1,3-Dimethyl-5-Ethylbenzene	36200		ug/kg	2550	--	20
1,3-Dimethyl-2-Ethylbenzene	6440		ug/kg	2550	--	20
1,2-Dimethyl-3-Ethylbenzene	11400		ug/kg	2550	--	20
1,2,4,5-Tetramethylbenzene	26100		ug/kg	2550	--	20
1,2,3,5-Tetramethylbenzene	43100		ug/kg	2550	--	20
N-Pentylbenzene	5440		ug/kg	2550	--	20
1,2,3,4-Tetramethylbenzene	37100		ug/kg	2550	--	20
1,3-Dimethyl-5-tert-Butylbenzene	ND		ug/kg	2550	--	20
Dodecane (C12)	69400		ug/kg	2550	--	20
1,3,5-Triethylbenzene	ND		ug/kg	2550	--	20
Naphthalene	731000	E	ug/kg	2550	--	20
Benzothiophene	23100		ug/kg	2550	--	20
1,2,4-Triethylbenzene	ND		ug/kg	2550	--	20
Hexylbenzene	6460		ug/kg	2550	--	20
MMT	ND		ug/kg	6380	--	20
Tridecane	67600		ug/kg	6380	--	20
2-Methylnaphthalene	677000	E	ug/kg	6380	--	20
1-Methylnaphthalene	467000	E	ug/kg	6380	--	20
Tetradecane (C14)	55300		ug/kg	6380	--	20
Pentadecane	54400		ug/kg	6380	--	20

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-13 D
Client ID: ENV-12B-15.0'-17.5'
Sample Location: HAVERHILL, MA

Date Collected: 04/28/15 13:35
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

PIANO Volatile Organics by EPA 5035 High - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	106		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	102		70-130

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 05/08/15 16:10
Analyst: MR

Parameter	Result	Qualifier	Units	RL	MDL
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab for sample(s): 01,05-08,10,13 Batch: WG783332-5					
3-Methyl-1-butene	ND		ug/kg	107	--
Isopentane	ND		ug/kg	107	--
1-Pentene	ND		ug/kg	107	--
2-Methyl-1-Butene	ND		ug/kg	107	--
Pentane	ND		ug/kg	107	--
trans-2-Pentene	ND		ug/kg	107	--
Isoprene	ND		ug/kg	107	--
cis-2-Pentene	ND		ug/kg	107	--
Tertiary Butanol	ND		ug/kg	1330	--
2,2-Dimethylbutane	ND		ug/kg	107	--
4-Methyl-1-pentene	ND		ug/kg	107	--
Cyclopentane	ND		ug/kg	107	--
2,3-Dimethylbutane	ND		ug/kg	107	--
2-Methylpentane	ND		ug/kg	107	--
Methyl tert butyl ether	ND		ug/kg	107	--
3-Methylpentane	ND		ug/kg	107	--
1-Hexene	ND		ug/kg	107	--
n-Hexane	ND		ug/kg	107	--
Isopropyl Ether	ND		ug/kg	107	--
trans-2-Hexene	ND		ug/kg	107	--
2-Methyl-2-pentene	ND		ug/kg	107	--
cis-2-Hexene	ND		ug/kg	107	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	107	--
2,2-Dimethylpentane	ND		ug/kg	107	--
Methylcyclopentane	ND		ug/kg	107	--
2,4-Dimethylpentane	ND		ug/kg	107	--
2,2,3-Trimethylbutane	ND		ug/kg	107	--
1,2-Dichloroethane	ND		ug/kg	107	--
3,3-Dimethylpentane	ND		ug/kg	107	--

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 05/08/15 16:10
Analyst: MR

Parameter	Result	Qualifier	Units	RL	MDL
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab for sample(s): 01,05-08,10,13 Batch: WG783332-5					
Cyclohexane	ND		ug/kg	107	--
2-Methylhexane	ND		ug/kg	107	--
Benzene	ND		ug/kg	107	--
2,3-Dimethylpentane	ND		ug/kg	107	--
Thiophene	ND		ug/kg	107	--
1,1-Dimethylcyclopentane	ND		ug/kg	107	--
3-Methylhexane	ND		ug/kg	107	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	107	--
1,3-Dimethylcyclopentane (cis)	ND		ug/kg	107	--
3-Ethylpentane	ND		ug/kg	107	--
1,3-DMCP (trans)/2-Methyl-1-hexene	ND		ug/kg	213	--
1-Heptene/1,2-DMCP (trans)	ND		ug/kg	213	--
Isooctane	ND		ug/kg	107	--
trans-3-Heptene	ND		ug/kg	107	--
Heptane	ND		ug/kg	107	--
cis-3-Heptene	ND		ug/kg	107	--
trans-2-Heptene	ND		ug/kg	107	--
cis-2-Heptene	ND		ug/kg	107	--
2,2-Dimethylhexane	ND		ug/kg	107	--
Methylcyclohexane	ND		ug/kg	107	--
2,5-Dimethylhexane	ND		ug/kg	107	--
2,4-Dimethylhexane	ND		ug/kg	107	--
Ethylcyclopentane	ND		ug/kg	107	--
2,2,3-Trimethylpentane	ND		ug/kg	107	--
1,2,3-Trimethylcyclopentane (ctc)	ND		ug/kg	107	--
2,3,4-Trimethylpentane	ND		ug/kg	107	--
2,3,3-Trimethylpentane	ND		ug/kg	107	--
2,3-Dimethylhexane	ND		ug/kg	107	--
2-Methylheptane	ND		ug/kg	107	--

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 05/08/15 16:10
Analyst: MR

Parameter	Result	Qualifier	Units	RL	MDL
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab for sample(s): 01,05-08,10,13 Batch: WG783332-5					
4-Methylheptane	ND		ug/kg	107	--
3-Methylheptane	ND		ug/kg	107	--
3-Ethylhexane	ND		ug/kg	107	--
Toluene	ND		ug/kg	107	--
2-Methylthiophene	ND		ug/kg	107	--
1,4-Dimethylcyclohexane (trans)	ND		ug/kg	107	--
3-Methylthiophene	ND		ug/kg	107	--
1-Octene	ND		ug/kg	107	--
Octane	ND		ug/kg	107	--
1,2-Dimethylcyclohexane (trans)	ND		ug/kg	107	--
1,2-Dibromoethane	ND		ug/kg	107	--
1,2,3-TMCP (ccc)/2-Octene (trans)	ND		ug/kg	213	--
cis-2-Octene	ND		ug/kg	107	--
Isopropylcyclopentane	ND		ug/kg	107	--
1,2-Dimethylcyclohexane (cis)	ND		ug/kg	107	--
2,5-Dimethylheptane	ND		ug/kg	107	--
3,5-Dimethylheptane	ND		ug/kg	107	--
3,3-Dimethylheptane	ND		ug/kg	107	--
1,1,4-Trimethylcyclohexane	ND		ug/kg	107	--
2,3-Dimethylheptane	ND		ug/kg	107	--
3,4-Dimethylheptane	ND		ug/kg	107	--
4-Methyloctane	ND		ug/kg	107	--
2-Methyloctane	ND		ug/kg	107	--
Ethylbenzene	ND		ug/kg	107	--
2-Ethylthiophene	ND		ug/kg	107	--
3-Methyloctane	ND		ug/kg	107	--
3,3-Diethylpentane	ND		ug/kg	107	--
p/m-Xylene	ND		ug/kg	213	--
1-Nonene	ND		ug/kg	267	--

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 05/08/15 16:10
Analyst: MR

Parameter	Result	Qualifier	Units	RL	MDL
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab for sample(s): 01,05-08,10,13 Batch: WG783332-5					
trans-3-Nonene	ND		ug/kg	107	--
cis-3-Nonene	ND		ug/kg	107	--
Nonane (C9)	ND		ug/kg	107	--
Styrene	ND		ug/kg	107	--
o-Xylene	ND		ug/kg	107	--
2-Nonene	ND		ug/kg	107	--
Isopropylcyclohexane	ND		ug/kg	107	--
Isopropylbenzene	ND		ug/kg	107	--
3,3-Dimethyloctane	ND		ug/kg	107	--
n-Propylbenzene	ND		ug/kg	107	--
2-Methylnonane	ND		ug/kg	107	--
3-Methylnonane	ND		ug/kg	107	--
1-Methyl-3-Ethylbenzene	ND		ug/kg	107	--
1-Methyl-4-Ethylbenzene	ND		ug/kg	107	--
1,3,5-Trimethylbenzene	ND		ug/kg	107	--
1-Decene	ND		ug/kg	107	--
Isobutylcyclohexane	ND		ug/kg	107	--
1-Methyl-2-Ethylbenzene	ND		ug/kg	107	--
Decane (C10)	ND		ug/kg	107	--
tert-Butylbenzene	ND		ug/kg	107	--
1,2,4-Trimethylbenzene	ND		ug/kg	107	--
Isobutylbenzene	ND		ug/kg	107	--
sec-Butylbenzene	ND		ug/kg	107	--
1-Methyl-3-Isopropylbenzene	ND		ug/kg	107	--
1-Methyl-4-Isopropylbenzene	ND		ug/kg	107	--
1,2,3-Trimethylbenzene	ND		ug/kg	107	--
1-Methyl-2-Isopropylbenzene	ND		ug/kg	107	--
Indane	ND		ug/kg	107	--
1,3-Diethylbenzene	ND		ug/kg	107	--

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 05/08/15 16:10
Analyst: MR

Parameter	Result	Qualifier	Units	RL	MDL
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab for sample(s): 01,05-08,10,13 Batch: WG783332-5					
1-Methyl-3-N-Propylbenzene	ND		ug/kg	107	--
Indene	ND		ug/kg	107	--
1-Methyl-4-N-Propylbenzene	ND		ug/kg	107	--
n-Butylbenzene	ND		ug/kg	107	--
1,2-Dimethyl-4-Ethylbenzene	ND		ug/kg	107	--
1,2-Diethylbenzene	ND		ug/kg	107	--
1-Methyl-2-N-Propylbenzene	ND		ug/kg	107	--
1,4-Dimethyl-2-Ethylbenzene	ND		ug/kg	107	--
Undecane	ND		ug/kg	107	--
1,3-Dimethyl-4-Ethylbenzene	ND		ug/kg	107	--
1,3-Dimethyl-5-Ethylbenzene	ND		ug/kg	107	--
1,3-Dimethyl-2-Ethylbenzene	ND		ug/kg	107	--
1,2-Dimethyl-3-Ethylbenzene	ND		ug/kg	107	--
1,2,4,5-Tetramethylbenzene	ND		ug/kg	107	--
1,2,3,5-Tetramethylbenzene	ND		ug/kg	107	--
N-Pentylbenzene	ND		ug/kg	107	--
1,2,3,4-Tetramethylbenzene	ND		ug/kg	107	--
1,3-Dimethyl-5-tert-Butylbenzene	ND		ug/kg	107	--
Dodecane (C12)	ND		ug/kg	107	--
1,3,5-Triethylbenzene	ND		ug/kg	107	--
Naphthalene	ND		ug/kg	107	--
Benzothiophene	ND		ug/kg	107	--
1,2,4-Triethylbenzene	ND		ug/kg	107	--
Hexylbenzene	ND		ug/kg	107	--
MMT	ND		ug/kg	267	--
Tridecane	ND		ug/kg	267	--
2-Methylnaphthalene	ND		ug/kg	267	--
1-Methylnaphthalene	ND		ug/kg	267	--
Tetradecane (C14)	ND		ug/kg	267	--

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 05/08/15 16:10
Analyst: MR

Parameter	Result	Qualifier	Units	RL	MDL
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab for sample(s): 01,05-08,10,13 Batch: WG783332-5					
Pentadecane	ND		ug/kg	267	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	115		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab Associated sample(s): 01,05-08,10,13 Batch: WG783332-3 WG783332-4								
1-Pentene	110		103		50-130	7		30
Pentane	101		99		50-130	2		30
Tertiary Butanol	113		101		50-130	11		30
Cyclopentane	104		103		50-130	1		30
2-Methylpentane	106		104		50-130	2		30
Methyl tert butyl ether	106		103		50-130	3		30
3-Methylpentane	108		107		50-130	1		30
1-Hexene	105		99		50-130	6		30
n-Hexane	104		101		50-130	3		30
Isopropyl Ether	105		101		50-130	4		30
Ethyl-Tert-Butyl-Ether	106		103		50-130	3		30
Methylcyclopentane	107		104		50-130	3		30
2,4-Dimethylpentane	105		107		50-130	2		30
Cyclohexane	107		103		50-130	4		30
2-Methylhexane	102		101		50-130	1		30
Benzene	105		102		50-130	3		30
2,3-Dimethylpentane	108		104		50-130	4		30
3-Methylhexane	97		92		50-130	5		30
Tertiary-Amyl Methyl Ether	98		96		50-130	2		30
Isooctane	103		101		50-130	2		30
Heptane	100		98		50-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab Associated sample(s): 01,05-08,10,13 Batch: WG783332-3 WG783332-4								
Methylcyclohexane	105		102		50-130	3		30
2-Methylheptane	101		97		50-130	4		30
3-Methylheptane	98		96		50-130	2		30
Toluene	105		102		50-130	3		30
Octane	103		99		50-130	4		30
Ethylbenzene	101		99		50-130	2		30
p/m-Xylene	106		103		50-130	3		30
Nonane (C9)	105		100		50-130	5		30
o-Xylene	105		104		50-130	1		30
Isopropylbenzene	105		102		50-130	3		30
n-Propylbenzene	105		103		50-130	2		30
1-Methyl-3-Ethylbenzene	106		104		50-130	2		30
1-Methyl-4-Ethylbenzene	106		104		50-130	2		30
1,3,5-Trimethylbenzene	109		108		50-130	1		30
1-Decene	114		111		50-130	3		30
1-Methyl-2-Ethylbenzene	110		109		50-130	1		30
Decane (C10)	115		111		50-130	4		30
1,2,4-Trimethylbenzene	109		107		50-130	2		30
sec-Butylbenzene	106		105		50-130	1		30
1-Methyl-4-N-Propylbenzene	109		108		50-130	1		30
n-Butylbenzene	110		107		50-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PIANO Volatile Organics by EPA 5035 High - Mansfield Lab Associated sample(s): 01,05-08,10,13 Batch: WG783332-3 WG783332-4								
1,2-Diethylbenzene	105		104		50-130	1		30
Undecane	120		120		50-130	0		30
N-Pentylbenzene	108		106		50-130	2		30
Dodecane (C12)	**139**	Q	**138**	Q	50-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Dibromofluoromethane	113		113		70-130
Toluene-d8	102		103		70-130
4-Bromofluorobenzene	100		100		70-130

SEMIVOLATILES

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1508968
Report Date: 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-01
Client ID: ENV-5B-12.5'-15.0'
Sample Location: HAVERHILL, MA
Matrix: Soil
Analytical Method: 1,8270D-SIM(M)
Analytical Date: 05/13/15 03:13
Analyst: MS
Percent Solids: 84%

Date Collected: 04/27/15 09:56
Date Received: 04/29/15
Field Prep: Not Specified
Extraction Method: ALPHA OP-013
Extraction Date: 05/08/15 15:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Naphthalene	265000	E	ug/kg	45.1	--	1
C1-Naphthalenes	336000	E	ug/kg	45.1	--	1
C2-Naphthalenes	387000	E	ug/kg	45.1	--	1
C3-Naphthalenes	257000		ug/kg	45.1	--	1
C4-Naphthalenes	134000		ug/kg	45.1	--	1
2-Methylnaphthalene	330000	E	ug/kg	45.1	--	1
1-Methylnaphthalene	205000	E	ug/kg	45.1	--	1
Biphenyl	21800		ug/kg	45.1	--	1
2,6-Dimethylnaphthalene	206000	E	ug/kg	45.1	--	1
Dibenzofuran	11400		ug/kg	45.1	--	1
Acenaphthylene	8560		ug/kg	45.1	--	1
Acenaphthene	26900		ug/kg	45.1	--	1
2,3,5-Trimethylnaphthalene	30200		ug/kg	45.1	--	1
Fluorene	30000		ug/kg	45.1	--	1
C1-Fluorenes	42200		ug/kg	45.1	--	1
C2-Fluorenes	43300		ug/kg	45.1	--	1
C3-Fluorenes	22400		ug/kg	45.1	--	1
Dibenzothiophene	18100		ug/kg	45.1	--	1
C1-Dibenzothiophenes BS	27700		ug/kg	45.1	--	1
C2-Dibenzothiophenes	20700		ug/kg	45.1	--	1
C3-Dibenzothiophenes	8970		ug/kg	45.1	--	1
C4-Dibenzothiophenes	2900		ug/kg	45.1	--	1
Phenanthrene	104000	E	ug/kg	45.1	--	1
C1-Phenanthrenes/Anthracenes	105000		ug/kg	45.1	--	1
C2-Phenanthrenes/Anthr BS	56700		ug/kg	45.1	--	1
C3-Phenanthrenes/Anthracenes	18400		ug/kg	45.1	--	1
C4-Phenanthrenes/Anthracenes	4840		ug/kg	45.1	--	1
Retene	ND		ug/kg	45.1	--	1
Anthracene	17200		ug/kg	45.1	--	1
Fluoranthene	17800		ug/kg	45.1	--	1

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-01 Date Collected: 04/27/15 09:56

Client ID: ENV-5B-12.5'-15.0' Date Received: 04/29/15

Sample Location: HAVERHILL, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Pyrene	28800		ug/kg	45.1	--	1
C1-Fluoranthenes/Pyrenes	28300		ug/kg	45.1	--	1
C2-Fluoranthenes/Pyrenes	11800		ug/kg	45.1	--	1
C3-Fluoranthenes/Pyrenes	4210		ug/kg	45.1	--	1
C4-Fluoranthenes/Pyrenes	1510		ug/kg	45.1	--	1
Benz(a)anthracene	9690		ug/kg	45.1	--	1
Chrysene/Triphenylene	9890		ug/kg	45.1	--	1
C1-Chrysenes	11400		ug/kg	45.1	--	1
C2-Chrysenes BS	5720		ug/kg	45.1	--	1
C3-Chrysenes	2480		ug/kg	45.1	--	1
C4-Chrysenes	756.		ug/kg	45.1	--	1
Benzo(b)fluoranthene	3430		ug/kg	45.1	--	1
Benzo(j)+(k)fluoranthene	4540		ug/kg	45.1	--	1
Benzo(e)pyrene	3850		ug/kg	45.1	--	1
Benzo(a)pyrene	7210		ug/kg	45.1	--	1
Perylene	1120		ug/kg	45.1	--	1
Indeno(1,2,3-cd)pyrene	2470		ug/kg	45.1	--	1
Dibenz(a,h)+(a,c)anthracene	923.		ug/kg	45.1	--	1
Benzo(g,h,i)perylene	2690		ug/kg	45.1	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	102		50-130
Phenanthrene-d10	**140**	Q	50-130
Benzo(a)pyrene-d12	112		50-130

Project Name: HAVERHILL,-284 WINTER ST.
Lab Number: L1508968
Project Number: 08-36060B
Report Date: 12/09/15

SAMPLE RESULTS

Lab ID:	L1508968-01	D	Date Collected:	04/27/15 09:56
Client ID:	ENV-5B-12.5'-15.0'		Date Received:	04/29/15
Sample Location:	HAVERHILL, MA		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	ALPHA OP-013
Analytical Method:	1,8270D-SIM(M)		Extraction Date:	05/08/15 15:03
Analytical Date:	05/14/15 10:33			
Analyst:	MS			
Percent Solids:	84%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Naphthalene	311000		ug/kg	451	--	10
C1-Naphthalenes	304000		ug/kg	451	--	10
C2-Naphthalenes	356000		ug/kg	451	--	10
2-Methylnaphthalene	300000		ug/kg	451	--	10
1-Methylnaphthalene	186000		ug/kg	451	--	10
2,6-Dimethylnaphthalene	187000		ug/kg	451	--	10
Phenanthrene	91500		ug/kg	451	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	84		50-130
Phenanthrene-d10	121		50-130
Benzo(a)pyrene-d12	99		50-130

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1508968
Report Date: 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-06
Client ID: ENV-8B-12.5'-15.0'
Sample Location: HAVERHILL, MA
Matrix: Soil
Analytical Method: 1,8270D-SIM(M)
Analytical Date: 05/13/15 04:38
Analyst: MS
Percent Solids: 83%

Date Collected: 04/27/15 14:45
Date Received: 04/29/15
Field Prep: Not Specified
Extraction Method: ALPHA OP-013
Extraction Date: 05/08/15 15:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Naphthalene	384000	E	ug/kg	84.8	--	1
C1-Naphthalenes	321000	E	ug/kg	84.8	--	1
C2-Naphthalenes	419000	E	ug/kg	84.8	--	1
C3-Naphthalenes	308000		ug/kg	84.8	--	1
C4-Naphthalenes	166000		ug/kg	84.8	--	1
2-Methylnaphthalene	321000	E	ug/kg	84.8	--	1
1-Methylnaphthalene	191000	E	ug/kg	84.8	--	1
Biphenyl	28000		ug/kg	84.8	--	1
2,6-Dimethylnaphthalene	220000	E	ug/kg	84.8	--	1
Dibenzofuran	12800		ug/kg	84.8	--	1
Acenaphthylene	9810		ug/kg	84.8	--	1
Acenaphthene	22000		ug/kg	84.8	--	1
2,3,5-Trimethylnaphthalene	29900		ug/kg	84.8	--	1
Fluorene	20900		ug/kg	84.8	--	1
C1-Fluorenes	46100		ug/kg	84.8	--	1
C2-Fluorenes	55900		ug/kg	84.8	--	1
C3-Fluorenes	28300		ug/kg	84.8	--	1
Dibenzothiophene	13800		ug/kg	84.8	--	1
C1-Dibenzothiophenes BS	26300		ug/kg	84.8	--	1
C2-Dibenzothiophenes	20800		ug/kg	84.8	--	1
C3-Dibenzothiophenes	9210		ug/kg	84.8	--	1
C4-Dibenzothiophenes	3170		ug/kg	84.8	--	1
Phenanthrene	68100		ug/kg	84.8	--	1
C1-Phenanthrenes/Anthracenes	91200		ug/kg	84.8	--	1
C2-Phenanthrenes/Anthr BS	56900		ug/kg	84.8	--	1
C3-Phenanthrenes/Anthracenes	19800		ug/kg	84.8	--	1
C4-Phenanthrenes/Anthracenes	5310		ug/kg	84.8	--	1
Retene	ND		ug/kg	84.8	--	1
Anthracene	12300		ug/kg	84.8	--	1
Fluoranthene	9350		ug/kg	84.8	--	1

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-06 Date Collected: 04/27/15 14:45

Client ID: ENV-8B-12.5'-15.0' Date Received: 04/29/15

Sample Location: HAVERHILL, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Pyrene	16000		ug/kg	84.8	--	1
C1-Fluoranthenes/Pyrenes	18200		ug/kg	84.8	--	1
C2-Fluoranthenes/Pyrenes	10400		ug/kg	84.8	--	1
C3-Fluoranthenes/Pyrenes	5050		ug/kg	84.8	--	1
C4-Fluoranthenes/Pyrenes	2260		ug/kg	84.8	--	1
Benz(a)anthracene	4520		ug/kg	84.8	--	1
Chrysene/Triphenylene	5000		ug/kg	84.8	--	1
C1-Chrysenes	7580		ug/kg	84.8	--	1
C2-Chrysenes BS	5340		ug/kg	84.8	--	1
C3-Chrysenes	3080		ug/kg	84.8	--	1
C4-Chrysenes	1300		ug/kg	84.8	--	1
Benzo(b)fluoranthene	1850		ug/kg	84.8	--	1
Benzo(j)+(k)fluoranthene	2240		ug/kg	84.8	--	1
Benzo(e)pyrene	2170		ug/kg	84.8	--	1
Benzo(a)pyrene	3620		ug/kg	84.8	--	1
Perylene	556.		ug/kg	84.8	--	1
Indeno(1,2,3-cd)pyrene	1470		ug/kg	84.8	--	1
Dibenz(a,h)+(a,c)anthracene	490.		ug/kg	84.8	--	1
Benzo(g,h,i)perylene	1790		ug/kg	84.8	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	97		50-130
Phenanthrene-d10	**131**	Q	50-130
Benzo(a)pyrene-d12	113		50-130

Project Name: HAVERHILL,-284 WINTER ST.
Lab Number: L1508968
Project Number: 08-36060B
Report Date: 12/09/15

SAMPLE RESULTS

Lab ID:	L1508968-06	D	Date Collected:	04/27/15 14:45
Client ID:	ENV-8B-12.5'-15.0'		Date Received:	04/29/15
Sample Location:	HAVERHILL, MA		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	ALPHA OP-013
Analytical Method:	1,8270D-SIM(M)		Extraction Date:	05/08/15 15:03
Analytical Date:	05/13/15 23:05			
Analyst:	MS			
Percent Solids:	83%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Naphthalene	426000		ug/kg	848	--	10
C1-Naphthalenes	324000		ug/kg	848	--	10
C2-Naphthalenes	446000		ug/kg	848	--	10
2-Methylnaphthalene	322000		ug/kg	848	--	10
1-Methylnaphthalene	194000		ug/kg	848	--	10
2,6-Dimethylnaphthalene	232000		ug/kg	848	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	94		50-130
Phenanthrene-d10	129		50-130
Benzo(a)pyrene-d12	102		50-130

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-07
Client ID: ENV-11B-15.0'-17.5'
Sample Location: HAVERHILL, MA
Matrix: Soil
Analytical Method: 1,8270D-SIM(M)
Analytical Date: 05/13/15 06:03
Analyst: MS
Percent Solids: 82%

Date Collected: 04/27/15 16:10
Date Received: 04/29/15
Field Prep: Not Specified
Extraction Method: ALPHA OP-013
Extraction Date: 05/08/15 15:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Naphthalene	175000	E	ug/kg	29.2	--	1
C1-Naphthalenes	159000	E	ug/kg	29.2	--	1
C2-Naphthalenes	166000	E	ug/kg	29.2	--	1
C3-Naphthalenes	114000		ug/kg	29.2	--	1
C4-Naphthalenes	51300		ug/kg	29.2	--	1
2-Methylnaphthalene	162000	E	ug/kg	29.2	--	1
1-Methylnaphthalene	92200	E	ug/kg	29.2	--	1
Biphenyl	9240		ug/kg	29.2	--	1
2,6-Dimethylnaphthalene	89400	E	ug/kg	29.2	--	1
Dibenzofuran	5280		ug/kg	29.2	--	1
Acenaphthylene	13700		ug/kg	29.2	--	1
Acenaphthene	6130		ug/kg	29.2	--	1
2,3,5-Trimethylnaphthalene	13100		ug/kg	29.2	--	1
Fluorene	12800		ug/kg	29.2	--	1
C1-Fluorenes	15200		ug/kg	29.2	--	1
C2-Fluorenes	16000		ug/kg	29.2	--	1
C3-Fluorenes	7950		ug/kg	29.2	--	1
Dibenzothiophene	6950		ug/kg	29.2	--	1
C1-Dibenzothiophenes BS	10600		ug/kg	29.2	--	1
C2-Dibenzothiophenes	7630		ug/kg	29.2	--	1
C3-Dibenzothiophenes	3290		ug/kg	29.2	--	1
C4-Dibenzothiophenes	1050		ug/kg	29.2	--	1
Phenanthrene	40300	E	ug/kg	29.2	--	1
C1-Phenanthrenes/Anthracenes	39500		ug/kg	29.2	--	1
C2-Phenanthrenes/Anthr BS	21300		ug/kg	29.2	--	1
C3-Phenanthrenes/Anthracenes	6990		ug/kg	29.2	--	1
C4-Phenanthrenes/Anthracenes	1840		ug/kg	29.2	--	1
Retene	ND		ug/kg	29.2	--	1
Anthracene	8660		ug/kg	29.2	--	1
Fluoranthene	7570		ug/kg	29.2	--	1

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-07 Date Collected: 04/27/15 16:10

Client ID: ENV-11B-15.0'-17.5' Date Received: 04/29/15

Sample Location: HAVERHILL, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Pyrene	12600		ug/kg	29.2	--	1
C1-Fluoranthenes/Pyrenes	11500		ug/kg	29.2	--	1
C2-Fluoranthenes/Pyrenes	4570		ug/kg	29.2	--	1
C3-Fluoranthenes/Pyrenes	1780		ug/kg	29.2	--	1
C4-Fluoranthenes/Pyrenes	658.		ug/kg	29.2	--	1
Benz(a)anthracene	4770		ug/kg	29.2	--	1
Chrysene/Triphenylene	4620		ug/kg	29.2	--	1
C1-Chrysenes	4920		ug/kg	29.2	--	1
C2-Chrysenes BS	2480		ug/kg	29.2	--	1
C3-Chrysenes	1140		ug/kg	29.2	--	1
C4-Chrysenes	350.		ug/kg	29.2	--	1
Benzo(b)fluoranthene	2010		ug/kg	29.2	--	1
Benzo(j)+(k)fluoranthene	2430		ug/kg	29.2	--	1
Benzo(e)pyrene	2250		ug/kg	29.2	--	1
Benzo(a)pyrene	4340		ug/kg	29.2	--	1
Perylene	651.		ug/kg	29.2	--	1
Indeno(1,2,3-cd)pyrene	1670		ug/kg	29.2	--	1
Dibenz(a,h)+(a,c)anthracene	545.		ug/kg	29.2	--	1
Benzo(g,h,i)perylene	1950		ug/kg	29.2	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	103		50-130
Phenanthrene-d10	101		50-130
Benzo(a)pyrene-d12	106		50-130

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1508968
Report Date: 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-07 D
Client ID: ENV-11B-15.0'-17.5'
Sample Location: HAVERHILL, MA
Matrix: Soil
Analytical Method: 1,8270D-SIM(M)
Analytical Date: 05/14/15 00:31
Analyst: MS
Percent Solids: 82%

Date Collected: 04/27/15 16:10
Date Received: 04/29/15
Field Prep: Not Specified
Extraction Method: ALPHA OP-013
Extraction Date: 05/08/15 15:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Naphthalene	199000		ug/kg	292	--	10
C1-Naphthalenes	142000		ug/kg	292	--	10
C2-Naphthalenes	154000		ug/kg	292	--	10
2-Methylnaphthalene	144000		ug/kg	292	--	10
1-Methylnaphthalene	82800		ug/kg	292	--	10
2,6-Dimethylnaphthalene	82300		ug/kg	292	--	10
Phenanthrene	42600		ug/kg	292	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	85		50-130
Phenanthrene-d10	108		50-130
Benzo(a)pyrene-d12	86		50-130

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1508968
Report Date: 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-08
Client ID: ENV-1B-15.0'-17.5'
Sample Location: HAVERHILL, MA
Matrix: Soil
Analytical Method: 1,8270D-SIM(M)
Analytical Date: 05/13/15 07:27
Analyst: MS
Percent Solids: 86%

Date Collected: 04/28/15 09:30
Date Received: 04/29/15
Field Prep: Not Specified
Extraction Method: ALPHA OP-013
Extraction Date: 05/08/15 15:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Naphthalene	44400	E	ug/kg	5.00	--	1
C1-Naphthalenes	45500	E	ug/kg	5.00	--	1
C2-Naphthalenes	7560		ug/kg	5.00	--	1
C3-Naphthalenes	2570		ug/kg	5.00	--	1
C4-Naphthalenes	804.		ug/kg	5.00	--	1
2-Methylnaphthalene	38900	E	ug/kg	5.00	--	1
1-Methylnaphthalene	33800	E	ug/kg	5.00	--	1
Biphenyl	1160		ug/kg	5.00	--	1
2,6-Dimethylnaphthalene	4130		ug/kg	5.00	--	1
Dibenzofuran	451.		ug/kg	5.00	--	1
Acenaphthylene	674.		ug/kg	5.00	--	1
Acenaphthene	1100		ug/kg	5.00	--	1
2,3,5-Trimethylnaphthalene	375.		ug/kg	5.00	--	1
Fluorene	1540		ug/kg	5.00	--	1
C1-Fluorenes	1270		ug/kg	5.00	--	1
C2-Fluorenes	1060		ug/kg	5.00	--	1
C3-Fluorenes	408.		ug/kg	5.00	--	1
Dibenzothiophene	330.		ug/kg	5.00	--	1
C1-Dibenzothiophenes BS	359.		ug/kg	5.00	--	1
C2-Dibenzothiophenes	249.		ug/kg	5.00	--	1
C3-Dibenzothiophenes	116.		ug/kg	5.00	--	1
C4-Dibenzothiophenes	57.3		ug/kg	5.00	--	1
Phenanthrene	5760		ug/kg	5.00	--	1
C1-Phenanthrenes/Anthracenes	4480		ug/kg	5.00	--	1
C2-Phenanthrenes/Anthr BS	1900		ug/kg	5.00	--	1
C3-Phenanthrenes/Anthracenes	546.		ug/kg	5.00	--	1
C4-Phenanthrenes/Anthracenes	135.		ug/kg	5.00	--	1
Retene	ND		ug/kg	5.00	--	1
Anthracene	1760		ug/kg	5.00	--	1
Fluoranthene	2600		ug/kg	5.00	--	1

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-08 Date Collected: 04/28/15 09:30

Client ID: ENV-1B-15.0'-17.5' Date Received: 04/29/15

Sample Location: HAVERHILL, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Pyrene	3200		ug/kg	5.00	--	1
C1-Fluoranthenes/Pyrenes	2320		ug/kg	5.00	--	1
C2-Fluoranthenes/Pyrenes	956.		ug/kg	5.00	--	1
C3-Fluoranthenes/Pyrenes	411.		ug/kg	5.00	--	1
C4-Fluoranthenes/Pyrenes	185.		ug/kg	5.00	--	1
Benz(a)anthracene	1580		ug/kg	5.00	--	1
Chrysene/Triphenylene	1620		ug/kg	5.00	--	1
C1-Chrysenes	1190		ug/kg	5.00	--	1
C2-Chrysenes BS	549.		ug/kg	5.00	--	1
C3-Chrysenes	367.		ug/kg	5.00	--	1
C4-Chrysenes	155.		ug/kg	5.00	--	1
Benzo(b)fluoranthene	1250		ug/kg	5.00	--	1
Benzo(j)+(k)fluoranthene	1710		ug/kg	5.00	--	1
Benzo(e)pyrene	1180		ug/kg	5.00	--	1
Benzo(a)pyrene	1750		ug/kg	5.00	--	1
Perylene	1160		ug/kg	5.00	--	1
Indeno(1,2,3-cd)pyrene	1290		ug/kg	5.00	--	1
Dibenz(a,h)+(a,c)anthracene	397.		ug/kg	5.00	--	1
Benzo(g,h,i)perylene	1220		ug/kg	5.00	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	86		50-130
Phenanthrene-d10	100		50-130
Benzo(a)pyrene-d12	96		50-130

Project Name: HAVERHILL,-284 WINTER ST.
Lab Number: L1508968
Project Number: 08-36060B
Report Date: 12/09/15

SAMPLE RESULTS

Lab ID:	L1508968-08	D	Date Collected:	04/28/15 09:30
Client ID:	ENV-1B-15.0'-17.5'		Date Received:	04/29/15
Sample Location:	HAVERHILL, MA		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	ALPHA OP-013
Analytical Method:	1,8270D-SIM(M)		Extraction Date:	05/08/15 15:03
Analytical Date:	05/15/15 01:10			
Analyst:	MS			
Percent Solids:	86%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Naphthalene	62200		ug/kg	99.9	--	20
C1-Naphthalenes	32800		ug/kg	99.9	--	20
2-Methylnaphthalene	28400		ug/kg	99.9	--	20
1-Methylnaphthalene	24000		ug/kg	99.9	--	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	64		50-130
Phenanthrene-d10	73		50-130
Benzo(a)pyrene-d12	61		50-130

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-10
Client ID: ENV-3B-12.5'-15.0'
Sample Location: HAVERHILL, MA
Matrix: Soil
Analytical Method: 1,8270D-SIM(M)
Analytical Date: 05/13/15 08:52
Analyst: MS
Percent Solids: 83%

Date Collected: 04/28/15 11:00
Date Received: 04/29/15
Field Prep: Not Specified
Extraction Method: ALPHA OP-013
Extraction Date: 05/08/15 15:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Naphthalene	1560000	E	ug/kg	178	--	1
C1-Naphthalenes	1450000	E	ug/kg	178	--	1
C2-Naphthalenes	811000	E	ug/kg	178	--	1
C3-Naphthalenes	429000		ug/kg	178	--	1
C4-Naphthalenes	182000		ug/kg	178	--	1
2-Methylnaphthalene	1410000	E	ug/kg	178	--	1
1-Methylnaphthalene	903000	E	ug/kg	178	--	1
Biphenyl	83600		ug/kg	178	--	1
2,6-Dimethylnaphthalene	417000	E	ug/kg	178	--	1
Dibenzofuran	30100		ug/kg	178	--	1
Acenaphthylene	65900		ug/kg	178	--	1
Acenaphthene	163000		ug/kg	178	--	1
2,3,5-Trimethylnaphthalene	61600		ug/kg	178	--	1
Fluorene	125000		ug/kg	178	--	1
C1-Fluorenes	93200		ug/kg	178	--	1
C2-Fluorenes	82100		ug/kg	178	--	1
C3-Fluorenes	40100		ug/kg	178	--	1
Dibenzothiophene	48100		ug/kg	178	--	1
C1-Dibenzothiophenes BS	62700		ug/kg	178	--	1
C2-Dibenzothiophenes	49100		ug/kg	178	--	1
C3-Dibenzothiophenes	23800		ug/kg	178	--	1
C4-Dibenzothiophenes	8360		ug/kg	178	--	1
Phenanthrene	383000	E	ug/kg	178	--	1
C1-Phenanthrenes/Anthracenes	309000		ug/kg	178	--	1
C2-Phenanthrenes/Anthr BS	154000		ug/kg	178	--	1
C3-Phenanthrenes/Anthracenes	52900		ug/kg	178	--	1
C4-Phenanthrenes/Anthracenes	14800		ug/kg	178	--	1
Retene	ND		ug/kg	178	--	1
Anthracene	94000		ug/kg	178	--	1
Fluoranthene	116000		ug/kg	178	--	1

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-10 Date Collected: 04/28/15 11:00

Client ID: ENV-3B-12.5'-15.0' Date Received: 04/29/15

Sample Location: HAVERHILL, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Pyrene	141000		ug/kg	178	--	1
C1-Fluoranthenes/Pyrenes	133000		ug/kg	178	--	1
C2-Fluoranthenes/Pyrenes	56900		ug/kg	178	--	1
C3-Fluoranthenes/Pyrenes	23700		ug/kg	178	--	1
C4-Fluoranthenes/Pyrenes	9400		ug/kg	178	--	1
Benz(a)anthracene	63500		ug/kg	178	--	1
Chrysene/Triphenylene	64400		ug/kg	178	--	1
C1-Chrysenes	64900		ug/kg	178	--	1
C2-Chrysenes BS	34900		ug/kg	178	--	1
C3-Chrysenes	17800		ug/kg	178	--	1
C4-Chrysenes	6110		ug/kg	178	--	1
Benzo(b)fluoranthene	35200		ug/kg	178	--	1
Benzo(j)+(k)fluoranthene	40800		ug/kg	178	--	1
Benzo(e)pyrene	32400		ug/kg	178	--	1
Benzo(a)pyrene	56800		ug/kg	178	--	1
Perylene	13500		ug/kg	178	--	1
Indeno(1,2,3-cd)pyrene	30100		ug/kg	178	--	1
Dibenz(a,h)+(a,c)anthracene	9220		ug/kg	178	--	1
Benzo(g,h,i)perylene	31000		ug/kg	178	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	106		50-130
Phenanthrene-d10	116		50-130
Benzo(a)pyrene-d12	117		50-130

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1508968
Report Date: 12/09/15

SAMPLE RESULTS

Lab ID:	L1508968-10	D	Date Collected:	04/28/15 11:00
Client ID:	ENV-3B-12.5'-15.0'		Date Received:	04/29/15
Sample Location:	HAVERHILL, MA		Field Prep:	Not Specified
Matrix:	Soil		Extraction Method:	ALPHA OP-013
Analytical Method:	1,8270D-SIM(M)		Extraction Date:	05/08/15 15:03
Analytical Date:	05/14/15 20:53			
Analyst:	MS			
Percent Solids:	83%			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Naphthalene	3180000		ug/kg	3550	--	20
C1-Naphthalenes	1580000		ug/kg	3550	--	20
C2-Naphthalenes	869000		ug/kg	3550	--	20
2-Methylnaphthalene	1560000		ug/kg	3550	--	20
1-Methylnaphthalene	955000		ug/kg	3550	--	20
2,6-Dimethylnaphthalene	430000		ug/kg	3550	--	20
Phenanthrene	446000		ug/kg	3550	--	20

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1508968
Report Date: 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-13
Client ID: ENV-12B-15.0'-17.5'
Sample Location: HAVERHILL, MA
Matrix: Soil
Analytical Method: 1,8270D-SIM(M)
Analytical Date: 05/14/15 18:03
Analyst: MS
Percent Solids: 89%

Date Collected: 04/28/15 13:35
Date Received: 04/29/15
Field Prep: Not Specified
Extraction Method: ALPHA OP-013
Extraction Date: 05/08/15 15:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Naphthalene	1000000	E	ug/kg	155	--	1
C1-Naphthalenes	1090000	E	ug/kg	155	--	1
C2-Naphthalenes	896000	E	ug/kg	155	--	1
C3-Naphthalenes	480000		ug/kg	155	--	1
C4-Naphthalenes	190000		ug/kg	155	--	1
2-Methylnaphthalene	1040000	E	ug/kg	155	--	1
1-Methylnaphthalene	702000	E	ug/kg	155	--	1
Biphenyl	74500		ug/kg	155	--	1
2,6-Dimethylnaphthalene	461000	E	ug/kg	155	--	1
Dibenzofuran	46200		ug/kg	155	--	1
Acenaphthylene	136000		ug/kg	155	--	1
Acenaphthene	98600		ug/kg	155	--	1
2,3,5-Trimethylnaphthalene	70400		ug/kg	155	--	1
Fluorene	180000		ug/kg	155	--	1
C1-Fluorenes	134000		ug/kg	155	--	1
C2-Fluorenes	104000		ug/kg	155	--	1
C3-Fluorenes	45700		ug/kg	155	--	1
Dibenzothiophene	79200		ug/kg	155	--	1
C1-Dibenzothiophenes BS	103000		ug/kg	155	--	1
C2-Dibenzothiophenes	69800		ug/kg	155	--	1
C3-Dibenzothiophenes	28800		ug/kg	155	--	1
C4-Dibenzothiophenes	8310		ug/kg	155	--	1
Phenanthrene	600000	E	ug/kg	155	--	1
C1-Phenanthrenes/Anthracenes	465000		ug/kg	155	--	1
C2-Phenanthrenes/Anthr BS	199000		ug/kg	155	--	1
C3-Phenanthrenes/Anthracenes	59500		ug/kg	155	--	1
C4-Phenanthrenes/Anthracenes	13700		ug/kg	155	--	1
Retene	ND		ug/kg	155	--	1
Anthracene	134000		ug/kg	155	--	1
Fluoranthene	157000		ug/kg	155	--	1

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-13 Date Collected: 04/28/15 13:35

Client ID: ENV-12B-15.0'-17.5' Date Received: 04/29/15

Sample Location: HAVERHILL, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Pyrene	201000		ug/kg	155	--	1
C1-Fluoranthenes/Pyrenes	194000		ug/kg	155	--	1
C2-Fluoranthenes/Pyrenes	74700		ug/kg	155	--	1
C3-Fluoranthenes/Pyrenes	29200		ug/kg	155	--	1
C4-Fluoranthenes/Pyrenes	10900		ug/kg	155	--	1
Benz(a)anthracene	84700		ug/kg	155	--	1
Chrysene/Triphenylene	83500		ug/kg	155	--	1
C1-Chrysenes	82200		ug/kg	155	--	1
C2-Chrysenes BS	39500		ug/kg	155	--	1
C3-Chrysenes	18000		ug/kg	155	--	1
C4-Chrysenes	6410		ug/kg	155	--	1
Benzo(b)fluoranthene	41200		ug/kg	155	--	1
Benzo(j)+(k)fluoranthene	47300		ug/kg	155	--	1
Benzo(e)pyrene	39500		ug/kg	155	--	1
Benzo(a)pyrene	67800		ug/kg	155	--	1
Perylene	14500		ug/kg	155	--	1
Indeno(1,2,3-cd)pyrene	29900		ug/kg	155	--	1
Dibenz(a,h)+(a,c)anthracene	10600		ug/kg	155	--	1
Benzo(g,h,i)perylene	30500		ug/kg	155	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	107		50-130
Phenanthrene-d10	119		50-130
Benzo(a)pyrene-d12	110		50-130

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1508968
Report Date: 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-13 D
Client ID: ENV-12B-15.0'-17.5'
Sample Location: HAVERHILL, MA
Matrix: Soil
Analytical Method: 1,8270D-SIM(M)
Analytical Date: 05/14/15 07:43
Analyst: MS
Percent Solids: 89%

Date Collected: 04/28/15 13:35
Date Received: 04/29/15
Field Prep: Not Specified
Extraction Method: ALPHA OP-013
Extraction Date: 05/08/15 15:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Naphthalene	981000		ug/kg	1550	--	10
C1-Naphthalenes	1000000		ug/kg	1550	--	10
C2-Naphthalenes	869000		ug/kg	1550	--	10
2-Methylnaphthalene	958000		ug/kg	1550	--	10
1-Methylnaphthalene	648000		ug/kg	1550	--	10
2,6-Dimethylnaphthalene	441000		ug/kg	1550	--	10
Phenanthrene	628000		ug/kg	1550	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	100		50-130
Phenanthrene-d10	130		50-130
Benzo(a)pyrene-d12	118		50-130

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID:	L1508968-15	Date Collected:	04/27/15 12:40
Client ID:	ENV-9B-TAR FRAGMENT (10.0'-12.5')	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	ALPHA OP-013
Analytical Method:	1,8270D-SIM(M)	Extraction Date:	05/08/15 15:03
Analytical Date:	05/14/15 19:28		
Analyst:	MS		
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Naphthalene	4890	E	mg/kg	0.503	--	1
C1-Naphthalenes	2980	E	mg/kg	0.503	--	1
C2-Naphthalenes	1590	E	mg/kg	0.503	--	1
C3-Naphthalenes	583		mg/kg	0.503	--	1
C4-Naphthalenes	183		mg/kg	0.503	--	1
2-Methylnaphthalene	3000	E	mg/kg	0.503	--	1
1-Methylnaphthalene	1760	E	mg/kg	0.503	--	1
Biphenyl	484		mg/kg	0.503	--	1
2,6-Dimethylnaphthalene	813	E	mg/kg	0.503	--	1
Dibenzofuran	138		mg/kg	0.503	--	1
Acenaphthylene	1610	E	mg/kg	0.503	--	1
Acenaphthene	327		mg/kg	0.503	--	1
2,3,5-Trimethylnaphthalene	73.3		mg/kg	0.503	--	1
Fluorene	902	E	mg/kg	0.503	--	1
C1-Fluorenes	455		mg/kg	0.503	--	1
C2-Fluorenes	255		mg/kg	0.503	--	1
C3-Fluorenes	119		mg/kg	0.503	--	1
Dibenzothiophene	372		mg/kg	0.503	--	1
C1-Dibenzothiophenes BS	337		mg/kg	0.503	--	1
C2-Dibenzothiophenes	203		mg/kg	0.503	--	1
C3-Dibenzothiophenes	93.4		mg/kg	0.503	--	1
C4-Dibenzothiophenes	31.2		mg/kg	0.503	--	1
Phenanthrene	3910	E	mg/kg	0.503	--	1
C1-Phenanthrenes/Anthracenes	2110		mg/kg	0.503	--	1
C2-Phenanthrenes/Anthr BS	729		mg/kg	0.503	--	1
C3-Phenanthrenes/Anthracenes	200		mg/kg	0.503	--	1
C4-Phenanthrenes/Anthracenes	45.8		mg/kg	0.503	--	1
Retene	ND		mg/kg	0.503	--	1
Anthracene	1170	E	mg/kg	0.503	--	1
Fluoranthene	1120	E	mg/kg	0.503	--	1

Project Name: HAVERHILL,-284 WINTER ST. **Lab Number:** L1508968

Project Number: 08-36060B **Report Date:** 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-15 Date Collected: 04/27/15 12:40

Client ID: ENV-9B-TAR FRAGMENT (10.0'-12.5') Date Received: 04/29/15

Sample Location: HAVERHILL, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Pyrene	2030	E	mg/kg	0.503	--	1
C1-Fluoranthenes/Pyrenes	1250		mg/kg	0.503	--	1
C2-Fluoranthenes/Pyrenes	363		mg/kg	0.503	--	1
C3-Fluoranthenes/Pyrenes	126		mg/kg	0.503	--	1
C4-Fluoranthenes/Pyrenes	43.6		mg/kg	0.503	--	1
Benz(a)anthracene	631		mg/kg	0.503	--	1
Chrysene/Triphenylene	549		mg/kg	0.503	--	1
C1-Chrysenes	444		mg/kg	0.503	--	1
C2-Chrysenes BS	198		mg/kg	0.503	--	1
C3-Chrysenes	89.7		mg/kg	0.503	--	1
C4-Chrysenes	29.6		mg/kg	0.503	--	1
Benzo(b)fluoranthene	240		mg/kg	0.503	--	1
Benzo(j)+(k)fluoranthene	347		mg/kg	0.503	--	1
Benzo(e)pyrene	300		mg/kg	0.503	--	1
Benzo(a)pyrene	621		mg/kg	0.503	--	1
Perylene	85.1		mg/kg	0.503	--	1
Indeno(1,2,3-cd)pyrene	231		mg/kg	0.503	--	1
Dibenz(a,h)+(a,c)anthracene	67.9		mg/kg	0.503	--	1
Benzo(g,h,i)perylene	268		mg/kg	0.503	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	94		50-130
Phenanthrene-d10	107		50-130
Benzo(a)pyrene-d12	108		50-130

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1508968
Report Date: 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-15 D
Client ID: ENV-9B-TAR FRAGMENT (10.0'-12.5')
Sample Location: HAVERHILL, MA
Matrix: Solid
Analytical Method: 1,8270D-SIM(M)
Analytical Date: 05/15/15 02:36
Analyst: MS
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Date Collected: 04/27/15 12:40
Date Received: 04/29/15
Field Prep: Not Specified
Extraction Method: ALPHA OP-013
Extraction Date: 05/08/15 15:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Naphthalene	3690		mg/kg	5.03	--	10
C1-Naphthalenes	1680		mg/kg	5.03	--	10
C2-Naphthalenes	910		mg/kg	5.03	--	10
2-Methylnaphthalene	1680		mg/kg	5.03	--	10
1-Methylnaphthalene	995		mg/kg	5.03	--	10
2,6-Dimethylnaphthalene	458		mg/kg	5.03	--	10
Acenaphthylene	977		mg/kg	5.03	--	10
Fluorene	527		mg/kg	5.03	--	10
Phenanthrene	2480		mg/kg	5.03	--	10
Anthracene	786		mg/kg	5.03	--	10
Fluoranthene	770		mg/kg	5.03	--	10
Pyrene	1360		mg/kg	5.03	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	52		50-130
Phenanthrene-d10	70		50-130
Benzo(a)pyrene-d12	61		50-130

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM(M)
Analytical Date: 05/12/15 23:00
Analyst: MS

Extraction Method: ALPHA OP-013
Extraction Date: 05/08/15 15:03

Parameter	Result	Qualifier	Units	RL	MDL
PAHs - Mansfield Lab for sample(s): 01,06-08,10,13 Batch: WG783304-1					
Naphthalene	ND		ug/kg	1.00	--
C1-Naphthalenes	ND		ug/kg	1.00	--
C2-Naphthalenes	ND		ug/kg	1.00	--
C3-Naphthalenes	ND		ug/kg	1.00	--
C4-Naphthalenes	ND		ug/kg	1.00	--
2-Methylnaphthalene	ND		ug/kg	1.00	--
1-Methylnaphthalene	ND		ug/kg	1.00	--
Biphenyl	ND		ug/kg	1.00	--
2,6-Dimethylnaphthalene	ND		ug/kg	1.00	--
Dibenzofuran	ND		ug/kg	1.00	--
Acenaphthylene	ND		ug/kg	1.00	--
Acenaphthene	ND		ug/kg	1.00	--
2,3,5-Trimethylnaphthalene	ND		ug/kg	1.00	--
Fluorene	ND		ug/kg	1.00	--
C1-Fluorenes	ND		ug/kg	1.00	--
C2-Fluorenes	ND		ug/kg	1.00	--
C3-Fluorenes	ND		ug/kg	1.00	--
Dibenzothiophene	ND		ug/kg	1.00	--
C1-Dibenzothiophenes	ND		ug/kg	1.00	--
C2-Dibenzothiophenes	ND		ug/kg	1.00	--
C3-Dibenzothiophenes	ND		ug/kg	1.00	--
C4-Dibenzothiophenes	ND		ug/kg	1.00	--
Phenanthrene	ND		ug/kg	1.00	--
C1-Phenanthrenes/Anthracenes	ND		ug/kg	1.00	--
C2-Phenanthrenes/Anthracenes	ND		ug/kg	1.00	--
C3-Phenanthrenes/Anthracenes	ND		ug/kg	1.00	--
C4-Phenanthrenes/Anthracenes	ND		ug/kg	1.00	--
Retene	ND		ug/kg	1.00	--
Anthracene	ND		ug/kg	1.00	--

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM(M)
Analytical Date: 05/12/15 23:00
Analyst: MS

Extraction Method: ALPHA OP-013
Extraction Date: 05/08/15 15:03

Parameter	Result	Qualifier	Units	RL	MDL
PAHs - Mansfield Lab for sample(s): 01,06-08,10,13 Batch: WG783304-1					
Fluoranthene	ND		ug/kg	1.00	--
Pyrene	ND		ug/kg	1.00	--
C1-Fluoranthenes/Pyrenes	ND		ug/kg	1.00	--
C2-Fluoranthenes/Pyrenes	ND		ug/kg	1.00	--
C3-Fluoranthenes/Pyrenes	ND		ug/kg	1.00	--
C4-Fluoranthenes/Pyrenes	ND		ug/kg	1.00	--
Benz(a)anthracene	ND		ug/kg	1.00	--
Chrysene/Triphenylene	ND		ug/kg	1.00	--
C1-Chrysenes	ND		ug/kg	1.00	--
C2-Chrysenes	ND		ug/kg	1.00	--
C3-Chrysenes	ND		ug/kg	1.00	--
C4-Chrysenes	ND		ug/kg	1.00	--
Benzo(b)fluoranthene	ND		ug/kg	1.00	--
Benzo(j)+(k)Fluoranthene	ND		ug/kg	1.00	--
Benzo(e)Pyrene	ND		ug/kg	1.00	--
Benzo(a)pyrene	ND		ug/kg	1.00	--
Perylene	ND		ug/kg	1.00	--
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	1.00	--
Dibenz(a,h)+(a,c)anthracene	ND		ug/kg	1.00	--
Benzo(ghi)perylene	ND		ug/kg	1.00	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	84		50-130
Phenanthrene-d10	105		50-130
Benzo(a)pyrene-d12	87		50-130

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM(M)
Analytical Date: 05/12/15 23:00
Analyst: MS

Extraction Method: ALPHA OP-013
Extraction Date: 05/08/15 15:03

Parameter	Result	Qualifier	Units	RL	MDL
PAHs - Mansfield Lab for sample(s): 15 Batch: WG784289-1					
Naphthalene	ND		mg/kg	0.300	--
C1-Naphthalenes	ND		mg/kg	0.300	--
C2-Naphthalenes	ND		mg/kg	0.300	--
C3-Naphthalenes	ND		mg/kg	0.300	--
C4-Naphthalenes	ND		mg/kg	0.300	--
2-Methylnaphthalene	ND		mg/kg	0.300	--
1-Methylnaphthalene	ND		mg/kg	0.300	--
Biphenyl	ND		mg/kg	0.300	--
2,6-Dimethylnaphthalene	ND		mg/kg	0.300	--
Dibenzofuran	ND		mg/kg	0.300	--
Acenaphthylene	ND		mg/kg	0.300	--
Acenaphthene	ND		mg/kg	0.300	--
2,3,5-Trimethylnaphthalene	ND		mg/kg	0.300	--
Fluorene	ND		mg/kg	0.300	--
C1-Fluorenes	ND		mg/kg	0.300	--
C2-Fluorenes	ND		mg/kg	0.300	--
C3-Fluorenes	ND		mg/kg	0.300	--
Dibenzothiophene	ND		mg/kg	0.300	--
C1-Dibenzothiophenes	ND		mg/kg	0.300	--
C2-Dibenzothiophenes	ND		mg/kg	0.300	--
C3-Dibenzothiophenes	ND		mg/kg	0.300	--
C4-Dibenzothiophenes	ND		mg/kg	0.300	--
Phenanthrene	ND		mg/kg	0.300	--
C1-Phenanthrenes/Anthracenes	ND		mg/kg	0.300	--
C2-Phenanthrenes/Anthracenes	ND		mg/kg	0.300	--
C3-Phenanthrenes/Anthracenes	ND		mg/kg	0.300	--
C4-Phenanthrenes/Anthracenes	ND		mg/kg	0.300	--
Retene	ND		mg/kg	0.300	--
Anthracene	ND		mg/kg	0.300	--

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM(M)
Analytical Date: 05/12/15 23:00
Analyst: MS

Extraction Method: ALPHA OP-013
Extraction Date: 05/08/15 15:03

Parameter	Result	Qualifier	Units	RL	MDL
PAHs - Mansfield Lab for sample(s): 15 Batch: WG784289-1					
Fluoranthene	ND		mg/kg	0.300	--
Pyrene	ND		mg/kg	0.300	--
C1-Fluoranthenes/Pyrenes	ND		mg/kg	0.300	--
C2-Fluoranthenes/Pyrenes	ND		mg/kg	0.300	--
C3-Fluoranthenes/Pyrenes	ND		mg/kg	0.300	--
C4-Fluoranthenes/Pyrenes	ND		mg/kg	0.300	--
Benz(a)anthracene	ND		mg/kg	0.300	--
Chrysene/Triphenylene	ND		mg/kg	0.300	--
C1-Chrysenes	ND		mg/kg	0.300	--
C2-Chrysenes	ND		mg/kg	0.300	--
C3-Chrysenes	ND		mg/kg	0.300	--
C4-Chrysenes	ND		mg/kg	0.300	--
Benzo(b)fluoranthene	ND		mg/kg	0.300	--
Benzo(j)+(k)Fluoranthene	ND		mg/kg	0.300	--
Benzo(e)Pyrene	ND		mg/kg	0.300	--
Benzo(a)pyrene	ND		mg/kg	0.300	--
Perylene	ND		mg/kg	0.300	--
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.300	--
Dibenz(a,h)+(a,c)anthracene	ND		mg/kg	0.300	--
Benzo(ghi)perylene	ND		mg/kg	0.300	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	84		50-130
Phenanthrene-d10	105		50-130
Benzo(a)pyrene-d12	87		50-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PAHs - Mansfield Lab Associated sample(s): 01,06-08,10,13 Batch: WG783304-2 WG783304-3								
Naphthalene	97		98		50-130	1		30
2-Methylnaphthalene	97		99		50-130	2		30
Acenaphthylene	93		95		50-130	2		30
Acenaphthene	98		100		50-130	2		30
Fluorene	106		109		50-130	3		30
Phenanthrene	116		120		50-130	3		30
Anthracene	114		118		50-130	3		30
Fluoranthene	112		117		50-130	4		30
Pyrene	104		110		50-130	6		30
Benz(a)anthracene	94		95		50-130	1		30
Chrysene/Triphenylene	102		103		50-130	1		30
Benzo(b)fluoranthene	98		98		50-130	0		30
Benzo(j)+(k)Fluoranthene	112		116		50-130	4		30
Benzo(a)pyrene	101		102		50-130	1		30
Indeno(1,2,3-cd)Pyrene	92		95		50-130	3		30
Dibenz(a,h)+(a,c)anthracene	94		96		50-130	2		30
Benzo(ghi)perylene	94		95		50-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PAHs - Mansfield Lab Associated sample(s): 01,06-08,10,13 Batch: WG783304-2 WG783304-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Naphthalene-d8	85		87		50-130
Phenanthrene-d10	109		114		50-130
Benzo(a)pyrene-d12	90		93		50-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PAHs - Mansfield Lab Associated sample(s): 15 Batch: WG784289-2 WG784289-3								
Naphthalene	97		98		50-130	1		30
2-Methylnaphthalene	97		99		50-130	2		30
Acenaphthylene	93		95		50-130	2		30
Acenaphthene	98		100		50-130	2		30
Fluorene	106		109		50-130	3		30
Phenanthrene	116		120		50-130	3		30
Anthracene	114		118		50-130	3		30
Fluoranthene	112		117		50-130	4		30
Pyrene	104		110		50-130	6		30
Benz(a)anthracene	94		95		50-130	1		30
Chrysene/Triphenylene	102		103		50-130	1		30
Benzo(b)fluoranthene	98		98		50-130	0		30
Benzo(j)+(k)Fluoranthene	112		116		50-130	4		30
Benzo(a)pyrene	101		102		50-130	1		30
Indeno(1,2,3-cd)Pyrene	92		95		50-130	3		30
Dibenz(a,h)+(a,c)anthracene	94		96		50-130	2		30
Benzo(ghi)perylene	94		95		50-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PAHs - Mansfield Lab Associated sample(s): 15 Batch: WG784289-2 WG784289-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Naphthalene-d8	85		87		50-130
Phenanthrene-d10	109		114		50-130
Benzo(a)pyrene-d12	90		93		50-130

Matrix Spike Analysis
Batch Quality Control

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

PAHs - Mansfield Lab Associated sample(s): 01,06-08,10,13 QC Batch ID: WG783304-4 WG783304-5 QC Sample: L1508968-10 Client ID: ENV-3B-12.5'-15.0'

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Naphthalene	3180000	1170	3120000	**0**	Q	2830000	**0**	Q	50-150	10		30
Naphthalene	1560000E	1170	1560000E	**0**	Q	2020000E	**39600**	Q	50-150	26		30
2-Methylnaphthalene	1560000	1170	1530000	**0**	Q	1380000	**0**	Q	50-150	10		30
2-Methylnaphthalene	1410000E	1170	1410000E	**0**	Q	1420000E	**861**	Q	50-150	1		30
Acenaphthylene	65900	1170	65900	**0**	Q	61000	**0**	Q	50-150	8		30
Acenaphthene	163000	1170	163000	**0**	Q	155000	**0**	Q	50-150	5		30
Fluorene	125000	1170	124000	**0**	Q	116000	**0**	Q	50-150	7		30
Phenanthrene	383000E	1170	378000E	**0**	Q	377000E	**0**	Q	50-150	0		30
Phenanthrene	446000	1170	442000	**0**	Q	411000	**0**	Q	50-150	7		30
Anthracene	94000	1170	94700	60		90600	**0**	Q	50-150	4		30
Fluoranthene	116000	1170	116000	**0**	Q	116000	**0**	Q	50-150	0		30
Pyrene	141000	1170	140000	**0**	Q	140000	**0**	Q	50-150	0		30
Benz(a)anthracene	63500	1170	64100	51		61600	**0**	Q	50-150	4		30
Chrysene/Triphenylene	64400	1170	64900	**43**	Q	64200	**0**	Q	50-150	1		30
Benzo(b)fluoranthene	35200	1170	35700	**43**	Q	35600	**35**	Q	50-150	0		30
Benzo(j)+(k)Fluoranthene	40800	1170	41800	85		40800	**0**	Q	50-150	2		30
Benzo(a)pyrene	56800	1170	56700	**0**	Q	56400	**0**	Q	50-150	1		30
Indeno(1,2,3-cd)Pyrene	30100	1170	30700	51		28700	**0**	Q	50-150	7		30
Dibenz(a,h)+(a,c)anthracene	9220	1170	10100	75		9070	**0**	Q	50-150	11		30
Benzo(ghi)perylene	31000	1170	31100	**9**	Q	31400	**35**	Q	50-150	1		30

Matrix Spike Analysis
Batch Quality Control

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
PAHs - Mansfield Lab Associated sample(s): 01,06-08,10,13 QC Batch ID: WG783304-4 WG783304-5 QC Sample: L1508968-10 Client ID: ENV-3B-12.5'-15.0'												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
Benzo(a)pyrene-d12	117		117		50-130
Naphthalene-d8	112		100		50-130
Phenanthrene-d10	119		112		50-130

PETROLEUM HYDROCARBONS

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1508968
Report Date: 12/09/15

SAMPLE RESULTS

Lab ID:	L1508968-01	Date Collected:	04/27/15 09:56
Client ID:	ENV-5B-12.5'-15.0'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	ALPHA OP-013
Analytical Method:	1,8015D(M)	Extraction Date:	05/08/15 15:03
Analytical Date:	05/13/15 04:15		
Analyst:	NL		
Percent Solids:	84%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	26400		mg/kg	99.2	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	**149**	Q	50-130
d50-Tetracosane	120		50-130

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1508968
Report Date: 12/09/15

SAMPLE RESULTS

Lab ID:	L1508968-06	Date Collected:	04/27/15 14:45
Client ID:	ENV-8B-12.5'-15.0'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	ALPHA OP-013
Analytical Method:	1,8015D(M)	Extraction Date:	05/08/15 15:03
Analytical Date:	05/13/15 05:43		
Analyst:	NL		
Percent Solids:	83%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	30100		mg/kg	187	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	127		50-130
d50-Tetracosane	108		50-130

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1508968
Report Date: 12/09/15

SAMPLE RESULTS

Lab ID:	L1508968-07	Date Collected:	04/27/15 16:10
Client ID:	ENV-11B-15.0'-17.5'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	ALPHA OP-013
Analytical Method:	1,8015D(M)	Extraction Date:	05/08/15 15:03
Analytical Date:	05/13/15 07:11		
Analyst:	NL		
Percent Solids:	82%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	10500		mg/kg	64.3	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	110		50-130
d50-Tetracosane	102		50-130

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1508968
Report Date: 12/09/15

SAMPLE RESULTS

Lab ID:	L1508968-08	Date Collected:	04/28/15 09:30
Client ID:	ENV-1B-15.0'-17.5'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	ALPHA OP-013
Analytical Method:	1,8015D(M)	Extraction Date:	05/08/15 15:03
Analytical Date:	05/13/15 13:04		
Analyst:	NL		
Percent Solids:	86%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	883		mg/kg	11.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	87		50-130
d50-Tetracosane	89		50-130

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1508968
Report Date: 12/09/15

SAMPLE RESULTS

Lab ID:	L1508968-10	Date Collected:	04/28/15 11:00
Client ID:	ENV-3B-12.5'-15.0'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	ALPHA OP-013
Analytical Method:	1,8015D(M)	Extraction Date:	05/08/15 15:03
Analytical Date:	05/13/15 14:32		
Analyst:	NL		
Percent Solids:	83%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab						
Nonane (C9)	ND		mg/kg	11.8	--	1
Decane (C10)	31.5		mg/kg	11.8	--	1
Dodecane (C12)	91.5		mg/kg	11.8	--	1
Hexadecane (C16)	79.5		mg/kg	11.8	--	1
Octadecane (C18)	360		mg/kg	11.8	--	1
Nonadecane (C19)	13.9		mg/kg	11.8	--	1
Eicosane (C20)	13.2		mg/kg	11.8	--	1
Docosane (C22)	ND		mg/kg	11.8	--	1
Hexacosane (C26)	ND		mg/kg	11.8	--	1
Total Petroleum Hydrocarbons (C9-C44)	47200		mg/kg	391	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	113		50-130
d50-Tetracosane	118		50-130

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1508968
Report Date: 12/09/15

SAMPLE RESULTS

Lab ID:	L1508968-13	Date Collected:	04/28/15 13:35
Client ID:	ENV-12B-15.0'-17.5'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	ALPHA OP-013
Analytical Method:	1,8015D(M)	Extraction Date:	05/08/15 15:03
Analytical Date:	05/13/15 18:57		
Analyst:	NL		
Percent Solids:	89%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	46100		mg/kg	341	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	123		50-130
d50-Tetracosane	127		50-130

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1508968
Report Date: 12/09/15

SAMPLE RESULTS

Lab ID:	L1508968-15	Date Collected:	04/27/15 12:40
Client ID:	ENV-9B-TAR FRAGMENT (10.0'-12.5')	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Solid	Extraction Method:	ALPHA OP-013
Analytical Method:	1,8015D(M)	Extraction Date:	05/08/15 15:03
Analytical Date:	05/13/15 20:25		
Analyst:	NL		
Percent Solids:	Results reported on an 'AS RECEIVED' basis.		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab						
Total Petroleum Hydrocarbons (C9-C44)	93700		mg/kg	1110	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	97		50-130
d50-Tetracosane	98		50-130

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 05/12/15 22:23
Analyst: NL

Extraction Method: ALPHA OP-013
Extraction Date: 05/08/15 15:03

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab for sample(s): 01,06-08,10,13 Batch: WG783304-1					
Total Petroleum Hydrocarbons (C9-C44)	ND		mg/kg	2.20	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	95		50-130
d50-Tetracosane	93		50-130

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 05/12/15 22:23
Analyst: NL

Extraction Method: ALPHA OP-013
Extraction Date: 05/08/15 15:03

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab for sample(s): 15 Batch: WG784289-1					
Total Petroleum Hydrocarbons (C9-C44)	ND		mg/kg	660	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	95		50-130
d50-Tetracosane	93		50-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab Associated sample(s): 01,06-08,10,13 Batch: WG783304-2 WG783304-3								
Nonane (C9)	83		86		50-130	4		30
Decane (C10)	93		96		50-130	3		30
Dodecane (C12)	97		100		50-130	3		30
Tetradecane (C14)	98		100		50-130	2		30
Hexadecane (C16)	101		103		50-130	2		30
Octadecane (C18)	101		103		50-130	2		30
Nonadecane (C19)	96		98		50-130	2		30
Eicosane (C20)	98		100		50-130	2		30
Docosane (C22)	96		98		50-130	2		30
Tetracosane (C24)	96		97		50-130	1		30
Hexacosane (C26)	94		95		50-130	1		30
Octacosane (C28)	94		95		50-130	1		30
Triacontane (C30)	92		93		50-130	1		30
Hexatriacontane (C36)	89		90		50-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	97		98		50-130
d50-Tetracosane	94		95		50-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab Associated sample(s): 15 Batch: WG784289-2 WG784289-3								
Nonane (C9)	83		86		50-130	4		30
Decane (C10)	93		96		50-130	3		30
Dodecane (C12)	97		100		50-130	3		30
Tetradecane (C14)	98		100		50-130	2		30
Hexadecane (C16)	101		103		50-130	2		30
Octadecane (C18)	101		103		50-130	2		30
Nonadecane (C19)	96		98		50-130	2		30
Eicosane (C20)	98		100		50-130	2		30
Docosane (C22)	96		98		50-130	2		30
Tetracosane (C24)	96		97		50-130	1		30
Hexacosane (C26)	94		95		50-130	1		30
Octacosane (C28)	94		95		50-130	1		30
Triacontane (C30)	92		93		50-130	1		30
Hexatriacontane (C36)	89		90		50-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	97		98		50-130
d50-Tetracosane	94		95		50-130

Matrix Spike Analysis
Batch Quality Control

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Identification by GC-FID - Mansfield Lab Associated sample(s): 01,06-08,10,13 QC Batch ID: WG783304-4 WG783304-5 QC Sample: L1508968-10 Client ID: ENV-3B-12.5'-15.0'												
Nonane (C9)	ND	23.5	29.8	127		28.4	122		50-150	5		30
Decane (C10)	31.5	23.5	65.3	144		61.5	129		50-150	6		30
Dodecane (C12)	91.5	23.5	114	96		109	75		50-150	4		30
Tetradecane (C14)	ND	23.5	41.7	**178**	Q	41.0	**177**	Q	50-150	2		30
Hexadecane (C16)	79.5	23.5	112	138		111	136		50-150	1		30
Octadecane (C18)	360	23.5	390	128		373	56		50-150	4		30
Nonadecane (C19)	13.9	23.5	37.6	101		37.2	100		50-150	1		30
Eicosane (C20)	13.2	23.5	36.0	97		34.6	92		50-150	4		30
Docosane (C22)	ND	23.5	31.7	135		30.4	131		50-150	4		30
Tetracosane (C24)	ND	23.5	26.4	112		25.4	109		50-150	4		30
Hexacosane (C26)	ND	23.5	30.6	130		29.5	127		50-150	4		30
Octacosane (C28)	ND	23.5	32.1	137		31.0	134		50-150	3		30
Triacontane (C30)	ND	23.5	28.5	121		28.0	121		50-150	2		30
Hexatriacontane (C36)	ND	23.5	24.2	103		23.2	100		50-150	4		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
d50-Tetracosane	128		121		50-130
o-Terphenyl	117		113		50-130

INORGANICS
&
MISCELLANEOUS

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-01
Client ID: ENV-5B-12.5'-15.0'
Sample Location: HAVERHILL, MA
Matrix: Soil

Date Collected: 04/27/15 09:56
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.3		%	0.100	NA	1	-	04/30/15 05:02	30,2540G	RT

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-05
Client ID: ENV-9B-12.5'-15.0'
Sample Location: HAVERHILL, MA
Matrix: Soil

Date Collected: 04/27/15 12:50
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.8		%	0.100	NA	1	-	04/30/15 05:02	30,2540G	RT

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-06
Client ID: ENV-8B-12.5'-15.0'
Sample Location: HAVERHILL, MA
Matrix: Soil

Date Collected: 04/27/15 14:45
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.8		%	0.100	NA	1	-	04/30/15 05:02	30,2540G	RT

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-07
Client ID: ENV-11B-15.0'-17.5'
Sample Location: HAVERHILL, MA
Matrix: Soil

Date Collected: 04/27/15 16:10
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.4		%	0.100	NA	1	-	04/30/15 05:02	30,2540G	RT

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-08
Client ID: ENV-1B-15.0'-17.5'
Sample Location: HAVERHILL, MA
Matrix: Soil

Date Collected: 04/28/15 09:30
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.4		%	0.100	NA	1	-	04/30/15 05:02	30,2540G	RT

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-10
Client ID: ENV-3B-12.5'-15.0'
Sample Location: HAVERHILL, MA
Matrix: Soil

Date Collected: 04/28/15 11:00
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.5		%	0.100	NA	1	-	04/30/15 05:02	30,2540G	RT

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-13
Client ID: ENV-12B-15.0'-17.5'
Sample Location: HAVERHILL, MA
Matrix: Soil

Date Collected: 04/28/15 13:35
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.0		%	0.100	NA	1	-	04/30/15 05:02	30,2540G	RT

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

SAMPLE RESULTS

Lab ID: L1508968-14
Client ID: ENV-13B-17.5'-20.0'
Sample Location: HAVERHILL, MA
Matrix: Soil

Date Collected: 04/28/15 14:30
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.4		%	0.100	NA	1	-	04/30/15 05:02	30,2540G	RT

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 04/30/2015 02:26

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1508968-01A	Vial MeOH preserved	A	N/A	4.0	Y	Absent	A2-PIANO8260H(14)
L1508968-01B	Vial water preserved	A	N/A	4.0	Y	Absent	HOLD-8260(14)
L1508968-01C	Vial water preserved	A	N/A	4.0	Y	Absent	HOLD-8260(14)
L1508968-01D	Glass 120ml/4oz unpreserved	A	N/A	4.0	Y	Absent	HOLD-8260(14)
L1508968-01E	Glass 250ml/8oz unpreserved	A	N/A	4.0	Y	Absent	A2-ALKPAH(14),A2-PHI(14)
L1508968-01F	Plastic 2oz unpreserved for TS	A	N/A	4.0	Y	Absent	TS(7)
L1508968-02A	Vial MeOH preserved	A	N/A	4.0	Y	Absent	HOLD(0)
L1508968-02B	Glass 120ml/4oz unpreserved	A	N/A	4.0	Y	Absent	HOLD()
L1508968-02C	Plastic 2oz unpreserved for TS	A	N/A	4.0	Y	Absent	HOLD()
L1508968-03A	Vial MeOH preserved	A	N/A	4.0	Y	Absent	HOLD(0)
L1508968-03B	Glass 120ml/4oz unpreserved	A	N/A	4.0	Y	Absent	HOLD()
L1508968-03C	Plastic 2oz unpreserved for TS	A	N/A	4.0	Y	Absent	HOLD()
L1508968-04A	Vial MeOH preserved	A	N/A	4.0	Y	Absent	HOLD(0)
L1508968-04B	Glass 120ml/4oz unpreserved	A	N/A	4.0	Y	Absent	HOLD()
L1508968-04C	Plastic 2oz unpreserved for TS	A	N/A	4.0	Y	Absent	HOLD()
L1508968-05A	Vial MeOH preserved	A	N/A	4.0	Y	Absent	A2-PIANO8260H(14)
L1508968-05B	Vial water preserved	A	N/A	4.0	Y	Absent	HOLD-8260(14)
L1508968-05C	Vial water preserved	A	N/A	4.0	Y	Absent	HOLD-8260(14)
L1508968-05D	Glass 120ml/4oz unpreserved	A	N/A	4.0	Y	Absent	HOLD-8260(14)
L1508968-05E	Glass 120ml/4oz unpreserved	A	N/A	4.0	Y	Absent	HOLD-PHI()
L1508968-05F	Plastic 2oz unpreserved for TS	A	N/A	4.0	Y	Absent	TS(7)
L1508968-06A	Vial MeOH preserved	A	N/A	4.0	Y	Absent	A2-PIANO8260H(14)
L1508968-06B	Vial water preserved	A	N/A	4.0	Y	Absent	HOLD-8260(14)
L1508968-06C	Vial water preserved	A	N/A	4.0	Y	Absent	HOLD-8260(14)
L1508968-06D	Glass 120ml/4oz unpreserved	A	N/A	4.0	Y	Absent	HOLD-8260(14)
L1508968-06E	Glass 250ml/8oz unpreserved	A	N/A	4.0	Y	Absent	A2-ALKPAH(14),A2-PHI(14)
L1508968-06F	Plastic 2oz unpreserved for TS	A	N/A	4.0	Y	Absent	TS(7)

*Values in parentheses indicate holding time in days

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1508968-07A	Vial MeOH preserved	A	N/A	4.0	Y	Absent	A2-PIANO8260H(14)
L1508968-07B	Vial water preserved	A	N/A	4.0	Y	Absent	HOLD-8260(14)
L1508968-07C	Vial water preserved	A	N/A	4.0	Y	Absent	HOLD-8260(14)
L1508968-07D	Glass 120ml/4oz unpreserved	A	N/A	4.0	Y	Absent	HOLD-8260(14)
L1508968-07E	Glass 250ml/8oz unpreserved	A	N/A	4.0	Y	Absent	A2-ALKPAH(14),A2-PHI(14)
L1508968-07F	Plastic 2oz unpreserved for TS	A	N/A	4.0	Y	Absent	TS(7)
L1508968-08A	Vial MeOH preserved	A	N/A	4.0	Y	Absent	A2-PIANO8260H(14)
L1508968-08B	Vial water preserved	A	N/A	4.0	Y	Absent	HOLD-8260(14)
L1508968-08C	Plastic 2oz unpreserved for TS	A	N/A	4.0	Y	Absent	HOLD-8260(14)
L1508968-08D	Glass 250ml/8oz unpreserved	A	N/A	4.0	Y	Absent	HOLD-8260(14)
L1508968-08E	Glass 250ml/8oz unpreserved	A	N/A	4.0	Y	Absent	A2-ALKPAH(14),A2-PHI(14)
L1508968-08F	Plastic 2oz unpreserved for TS	A	N/A	4.0	Y	Absent	TS(7)
L1508968-09A	Vial MeOH preserved	A	N/A	4.0	Y	Absent	HOLD(0)
L1508968-09B	Glass 120ml/4oz unpreserved	A	N/A	4.0	Y	Absent	HOLD()
L1508968-09C	Plastic 2oz unpreserved for TS	A	N/A	4.0	Y	Absent	HOLD()
L1508968-10A	Vial MeOH preserved	A	N/A	4.0	Y	Absent	A2-PIANO8260H(14)
L1508968-10A1	Vial MeOH preserved	A	N/A	4.0	Y	Absent	-
L1508968-10A2	Vial MeOH preserved	A	N/A	4.0	Y	Absent	-
L1508968-10B	Glass 120ml/4oz unpreserved	A	N/A	4.0	Y	Absent	HOLD-8260(14)
L1508968-10B1	Glass 120ml/4oz unpreserved	A	N/A	4.0	Y	Absent	HOLD-8260(14)
L1508968-10B2	Glass 120ml/4oz unpreserved	A	N/A	4.0	Y	Absent	HOLD-8260(14)
L1508968-10C	Vial water preserved	A	N/A	4.0	Y	Absent	HOLD-8260(14)
L1508968-10D	Vial water preserved	A	N/A	4.0	Y	Absent	HOLD-8260(14)
L1508968-10E	Glass 250ml/8oz unpreserved	A	N/A	4.0	Y	Absent	A2-ALKPAH(14),A2-PHI(14)
L1508968-10F	Plastic 2oz unpreserved for TS	A	N/A	4.0	Y	Absent	TS(7)
L1508968-10F1	Plastic 2oz unpreserved for TS	A	N/A	4.0	Y	Absent	TS(7)
L1508968-10F2	Plastic 2oz unpreserved for TS	A	N/A	4.0	Y	Absent	TS(7)
L1508968-11A	Vial MeOH preserved	A	N/A	4.0	Y	Absent	HOLD(0)
L1508968-11B	Glass 250ml/8oz unpreserved	A	N/A	4.0	Y	Absent	HOLD()
L1508968-11C	Plastic 2oz unpreserved for TS	A	N/A	4.0	Y	Absent	HOLD()
L1508968-12A	Vial MeOH preserved	A	N/A	4.0	Y	Absent	HOLD(0)
L1508968-12B	Glass 250ml/8oz unpreserved	A	N/A	4.0	Y	Absent	HOLD()
L1508968-12C	Plastic 2oz unpreserved for TS	A	N/A	4.0	Y	Absent	HOLD()
L1508968-13A	Vial MeOH preserved	A	N/A	4.0	Y	Absent	A2-PIANO8260H(14)
L1508968-13B	Vial water preserved	A	N/A	4.0	Y	Absent	HOLD-8260(14)
L1508968-13C	Vial water preserved	A	N/A	4.0	Y	Absent	HOLD-8260(14)

*Values in parentheses indicate holding time in days

Project Name: HAVERHILL,-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1508968
Report Date: 12/09/15

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1508968-13D	Glass 120ml/4oz unpreserved	A	N/A	4.0	Y	Absent	-
L1508968-13E	Glass 250ml/8oz unpreserved	A	N/A	4.0	Y	Absent	A2-ALKPAH(14),A2-PHI(14)
L1508968-13F	Plastic 2oz unpreserved for TS	A	N/A	4.0	Y	Absent	TS(7)
L1508968-14A	Vial MeOH preserved	A	N/A	4.0	Y	Absent	HOLD-8260(14)
L1508968-14B	Vial water preserved	A	N/A	4.0	Y	Absent	HOLD-8260(14)
L1508968-14C	Vial water preserved	A	N/A	4.0	Y	Absent	HOLD-8260(14)
L1508968-14D	Glass 120ml/4oz unpreserved	A	N/A	4.0	Y	Absent	HOLD-PHI()
L1508968-14E	Glass 250ml/8oz unpreserved	A	N/A	4.0	Y	Absent	HOLD-PHI()
L1508968-14F	Plastic 2oz unpreserved for TS	A	N/A	4.0	Y	Absent	TS(7)
L1508968-15A	Glass 120ml/4oz unpreserved	A	N/A	4.0	Y	Absent	A2-ALKPAH(14),A2-PHI(14)
L1508968-16A	Vial MeOH preserved	A	N/A	4.0	Y	Absent	HOLD(0)

*Values in parentheses indicate holding time in days

Project Name:	HAVERHILL,-284 WINTER ST.	**Lab Number:**	L1508968
Project Number:	08-36060B	**Report Date:**	12/09/15

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

Report Format: Data Usability Report

Project Name:	HAVERHILL,-284 WINTER ST.	**Lab Number:**	L1508968
Project Number:	08-36060B	**Report Date:**	12/09/15

Data Qualifiers

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name:	HAVERHILL,-284 WINTER ST.	**Lab Number:**	L1508968
Project Number:	08-36060B	**Report Date:**	12/09/15

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 8260C: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; Iodomethane (methyl iodide) (soil); Methyl methacrylate (soil); Azobenzene.
EPA 8270D: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA 2540D: TSS
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 3

Date Rec'd in Lab: 4/29/15

ALPHA Job #: L1508968

ALPHA TICAL
8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Client Information

Client: ENVIRON
Address: 3 Carlisle Rd, Suite 210
Westford, MA 01886
Phone: 603-703-5534
Email: jnoble@environcorp.com

Project Information

Project Name: Haffner's - 284 Winter St.
Project Location: Haverhill, MA
Project #: 08-36060B
Project Manager: John Noble
ALPHA Quote #: 2015090

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 5/13/15

Report Information - Data Deliverables

☒ ADEx ☒ EMAIL

Billing Information

☒ Same as Client Info PO #:

Regulatory Requirements & Project Information Requirements

☒ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☒ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☒ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program _____ Criteria _____

Additional Project Information:

In accordance with Master Service Agreement dated 11/15/13

ANALYSIS: VOC: ☐ 8260 ☐ 624 ☐ 524.2; SVOC: ☐ ABN ☐ PAH; METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15; METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13; EPH: ☒ Ranges & Targets ☐ Ranges Only; VPH: ☒ Ranges & Targets ☐ Ranges Only; ☐ PCB ☐ PEST; TPH: ☐ Quant Only ☐ Fingerprint; Total Solids; EPH-04-1 (Ranges Only); Petroleum Hydrocarbon TDTPH by GC/FID - EPA 8015D Modified; Alkylated PAHs by EPA 8270D SIM Modified; PIANO by 8260B (H); PIANO by 8260B (L); VPH-04-1 (Ranges Only)

SAMPLE INFO
Filtration
☐ Field
☐ Lab to do
Preservation
☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	VOC	SVOC	METALS	METALS	EPH	VPH	PCB	TPH	Total Solids	EPH-04-1	Petroleum Hydrocarbon TDTPH	Alkylated PAHs	PIANO by 8260B (H)	PIANO by 8260B (L)	VPH-04-1	Sample Comments	TOTAL # BOTTLES
08968-01	ENV-5B-12.5'-15.0'	4/27/15	0956	S	MSC								X	X			X		X			3
02	ENV-6B-6.0'-7.0'	4/27/15	1100	S	MSC					X	X		X									3
03	ENV-7B-10.0'-11.0'	4/27/15	1145	S	MSC					X	X		X									3
04	DUP	4/27/15	1200	S	MSC					X	X		X									3
05	ENV-9B-12.5'-15.0'	4/27/15	1250	S	MSC					X			X	~~X~~ NC			X		X			3
06	ENV-8B-12.5'-15.0'	4/27/15	1445	S	MSC								X	X			X		X			3
07	ENV-11B-15.0'-17.5'	4/27/15	1610	S	MSC								X	X			X		X			3
08	ENV-1B-15.0'-17.5'	4/28/15	0930	S	MSC								X	X			X		X			3
09	ENV-2B-5.0'-6.5'	4/28/15	1000	S	MSC					X	X		X				~~X~~ NC					3
10	ENV-3B-12.5'-15.0'	4/28/15	1100	S	MSC					X	X		X				X				MS/MSD for EPH/VPH ONLY	9
					Container Type					A	V			A	A	A	V	V				
					Preservative					A	F			A	A	A	F	DI				

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO_3
D= H_2SO_4
E= NaOH
F= MeOH
G= $NaHSO_4$
H = $Na_2S_2O_3$
I= Ascorbic Acid
J = NH_4Cl
K= Zn Acetate
O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	4/29/15 1355	[signature] AAL	4/29/15 1355
[signature]	4/29/15 1730	Willie McClendon	4/29/15 1730
[signature]	4/30/15 0400	Mansfield Lab	4/30/15 0400

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

CHAIN OF CUSTODY

PAGE 2 OF 3

Date Rec'd in Lab: 4/29/15

ALPHA Job #: L1508968

ALPHA ANALYTICAL
8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Project Information

Project Name: Hoffner's - 284 Winter St
Project Location: Haverhill, MA
Project #: 08-36060B
Project Manager: John Noble
ALPHA Quote #: 2015090

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 5/13/15

Report Information - Data Deliverables

☒ ADEx ☒ EMAIL

Billing Information

☒ Same as Client Info PO #:

Client Information

Client: ENVIRON
Address: 3 Carlisle Rd., Suite 210, Westford, MA 01886
Phone: 603-703-5534
Email: jnoble@environcorp.com

Regulatory Requirements & Project Information Requirements

☒ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☒ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☒ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program _____ Criteria _____

Additional Project Information:

In accordance with Master Service Agreement dated 11/15/13

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	VOC: ☐ 8260 ☐ 624 ☐ 524.2	SVOC: ☐ ABN ☐ PAH	METALS: ☐ MCP 13	METALS: ☐ MCP 14 ☐ RCP 15 ☐ RCRA5 ☐ RCRA8	EPH: ☒ Ranges & Targets ☐ PP13	VPH: ☒ Ranges & Targets ☐ Ranges Only ☐ PCB ☐ PEST	TPH: ☐ Quant Only ☐ Fingerprint	EPH-Short (Ranges Only)	Petroleum Hydrocarbon TO-17 by GC/FID-EPA Peist 3-Mod.	Alkylated PAHs by EPA 8270D-SIM - Modified	PIANO by EPA 8260B (44)	PIANO by EPA 8260B (44)	VPH-04-1 (Ranges Only)	Sample Comments	TOTAL # BOTTLES
08968 11	ENV-4B-2.5'-3.5'	4/28/15	1142	S	MSC				X	X		X								3
12	ENV-10B-0.0'-2.5'	4/28/15	1230	S	MSC				X	X		X								3
13	ENV-12B-15.0'-17.5'	4/28/15	1335	S	MSC							X	X			X		X		3
14	ENV-13B-17.5'-20.0'	4/28/15	1430	S	MSC				X	X		X				H			HOLD PIANO Analysis	3
08	ENV-1B-15.0'-17.5'	4/29/15	1134	S	MSC								X	X		X				3
10	ENV-3B-12.5'-15.0'	4/29/15	1142	S	MSC								X	X		X				3
06	ENV-5B-12.5'-15.0'	4/29/15	1151	S	MSC								X	X		X				3
06	ENV-8B-12.5'-15.0'	4/29/15	1158	S	MSC								X	X		X				3
05	ENV-9B-12.5'-15.0'	4/29/15	1207	S	MSC								H	H		X			HOLD TPH + Alk. PAH Analysis	3
15	ENV-9B-Tar Fragment (10.0'-12.5')	4/29/15	1206	X 1	MSC								X	X						1
					Container Type				A	V			A	A	A	V	V			
					Preservative				A	F			A	A	A	F	D.I.			

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO_3
D= H_2SO_4
E= NaOH
F= MeOH
G= $NaHSO_4$
H = $Na_2S_2O_3$
I= Ascorbic Acid
J = NH_4Cl
K= Zn Acetate
O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	4/29/15 1355	[signature] ABL	4/29/15 1355
[signature]	4/29/15 1700	[signature]	4/29/15 1730
[signature]	4/30/15 0400	Mansfield Lab	4/30/15 0400

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

CHAIN OF CUSTODY

PAGE 3 OF 3

Date Rec'd in Lab: 4/29/15

ALPHA Job #: L1508968

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Client Information

Client: ENVIRON
Address: 3 Carlisle Rd, Suite 210
Westford, MA 01886
Phone: 603-703-5534
Email: jnoble@environcorp.com

Project Information

Project Name: Hatfield's-284 Winter St.
Project Location: Haverhill, MA
Project #: 08-36060B
Project Manager: John Noble
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 5/18/15

Report Information - Data Deliverables

☒ ADEx ☒ EMAIL

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements & Project Information Requirements

☒ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☒ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☒ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program _____ Criteria _____

Additional Project Information:

In accordance w/ Master Service Agreement dated 11/15/13

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	VOC: ☐ 8260 ☐ 624 ☐ 524.2	SVOC: ☐ ABN ☐ PAH	METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15	METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13	EPH: ☒ Ranges & Targets ☐ Ranges Only	VPH: ☒ Ranges & Targets ☐ Ranges Only	☐ PCB ☐ PEST	TPH: ☐ Quant Only ☐ Fingerprint	EPH-04-1 (Ranges & Targets) Petroleum Hydrocarbons by GC/FID-EPA 8015D-Mod. (Aliphatics & Aromatics)	8260B-Mod. by EPA 8260B (4)	8260B-Mod. by EPA 8260B (4)		Sample Comments	TOTAL # BOTTLES
08968-07	ENV-11B-15.0'-17.5'	~~4/29/15~~ 4/29/15	1213	S	MSC									X	X		X		3
13	ENV-12B-15.0'-17.5'	4/29/15	1218	S	MSC									X	X		X		3
14	ENV-13B-17.5'-20.0'	4/29/15	1223	S	MSC									H	H		H		3
16	Trip Blank	4/22/15			RS						X								1
Container Type										A	V			A	A	A	V	V	
Preservative										A	F			A	A	A	F	D.I.	

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO_3
D= H_2SO_4
E= NaOH
F= MeOH
G= $NaHSO_4$
H= $Na_2S_2O_3$
I= Ascorbic Acid
J= NH_4Cl
K= Zn Acetate
O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
Pat Cole	4/29/15 1355	Pat Cole ADL	4/29/15 1355
	4/29/15 1730	Weller McCleander	4/29/15 1730
	4/30/15 0400	Mansfield Lab	4/30/15 0400

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

CHAIN OF CUSTODY

PAGE 1 OF 3

Serial No:12091510:57

Date Rec'd in Lab: 4/29/15

ALPHA Job #: L1508968

ALPHA ANALYTICAL — World Class Chemistry
8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Client Information

Client: ENVIRON
Address: 3 Carlisle Rd, Suite 210, Westford, MA 01886
Phone: 603-703-5534
Email: jnoble@environcorp.com

Project Information

Project Name: Haffner's - 284 Winter St.
Project Location: Haverhill, MA
Project #: 08-36060B
Project Manager: John Noble
ALPHA Quote #: 2015090

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 5/13/15

Report Information - Data Deliverables

☑ ADEx ☑ EMAIL

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements & Project Information Requirements

☑ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☑ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☑ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program _____ Criteria _____

Additional Project Information:

In accordance with Master Service Agreement dated 11/15/13

ANALYSIS: VOC: ☐ 8260 ☐ 624 ☐ 524.2; SVOC: ☐ ABN ☐ PAH; METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15; METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13; EPH: ☐ Ranges & Targets ☐ Ranges Only; VPH: ☐ Ranges & Targets ☐ Ranges Only; ☐ PCB ☐ PEST; TPH: ☐ Quant Only ☐ Fingerprint; Total Solids; EPH-04-1 (Ranges Only); Petroleum Hydrocarbon TDTPH by GC/FID - EPA 8015D - Modified; TPH Extended PAHs by EPA 8270D SIM - Modified; PIANO by 8260B (H); PIANO by 8260B (L); VPH-04-1 (Ranges Only)

SAMPLE INFO: Filtration ☐ Field ☐ Lab to do; Preservation ☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	VOC	SVOC	METALS	METALS	EPH	VPH	PCB	TPH	Total Solids	EPH-04-1	Petroleum Hydrocarbon	TPH Extended PAHs	PIANO by 8260B (H)	PIANO by 8260B (L)	VPH-04-1	Sample Comments	TOTAL # BOTTLES
08968-01	ENV-5B-12.5'-15.0'	4/27/15	0956	S	MSC								X	X				X		X		3
02	ENV-6B-6.0'-7.0'	4/27/15	1100	S	MSC					X	X		X									3
03	ENV-7B-10.0'-11.0'	4/27/15	1145	S	MSC					X	X		X									3
04	DUP	4/27/15	1200	S	MSC					X	X		X									3
05	ENV-9B-12.5'-15.0'	4/27/15	1250	S	MSC					X			X	~~X~~ NC				X		X		3
06	ENV-8B-12.5'-15.0'	4/27/15	1445	S	MSC								X	X				X		X		3
07	ENV-11B-15.0'-17.5'	4/27/15	1610	S	MSC								X	X				X		X		3
08	ENV-1B-15.0'-17.5'	4/28/15	0930	S	MSC								X	X				X		X		3
09	ENV-2B-5.0'-6.5'	4/28/15	1000	S	MSC					X	X		X					~~X~~ NC				3
10	ENV-3B-12.5'-15.0'	4/28/15	1100	S	MSC					X	X		X					X			MS/MSD for EPH/VPH ONLY	9
					Container Type					A	V			A	A	A	V	V				
					Preservative					A	F			A	A	A	F	D.I.				

Container Type: P= Plastic, A= Amber glass, V= Vial, G= Glass, B= Bacteria cup, C= Cube, O= Other, E= Encore, D= BOD Bottle

Preservative: A= None, B= HCl, C= HNO_3, D= H_2SO_4, E= NaOH, F= MeOH, G= $NaHSO_4$, H= $Na_2S_2O_3$, I= Ascorbic Acid, J= NH_4Cl, K= Zn Acetate, O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	4/29/15 1355	[signature] AAL	4/29/15 1355
[signature]	4/29/15 1730	[signature]	4/29/15 1730

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

Serial_No:12091510:57

CHAIN OF CUSTODY

PAGE 2 OF 3

Date Rec'd in Lab: 4/29/15

ALPHA Job #: L1508968

ALPHA ANALYTICAL World Class Chemistry
8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Project Information

Project Name: Haffner's - 284 Winter St.
Project Location: Haverhill, MA
Project #: 08-36060B
Project Manager: John Noble
ALPHA Quote #: 2015090

Report Information - Data Deliverables

☒ ADEx ☒ EMAIL

Billing Information

☒ Same as Client info PO #:

Client Information

Client: ENVIRON
Address: 3 Carlisle Rd., Suite 210, Westford, MA 01886
Phone: 603-703-5534
Email: jnoble@environcorp.com

Regulatory Requirements & Project Information Requirements

☒ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☒ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☒ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program _____ Criteria _____

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 5/13/15

Additional Project Information:

In accordance with Master Service Agreement dated 11/15/13

ANALYSIS: VOC: ☐ 8260 ☐ 624 ☐ 524.2; SVOC: ☐ ABN ☐ PAH; METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15; METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13; EPH: ☒ Ranges & Targets ☐ Ranges Only (EPH-04-1); VPH: ☒ Ranges & Targets ☐ Ranges Only (VPH-04-1); ☐ PCB ☐ PEST; TPH: ☐ Quant Only ☐ Fingerprint (Total 30 Ranges); EPH-04-1 (Ranges Only); Petroleum Hydrocarbon ID (TPH) by GC/FID-EPA 8015D-Mod.; Alkylated PAHs by EPA 8270D-SIM-Modified; PIANO by 8260B (H); ~~PIANO by 8260B (L)~~; VPH-04-1 (Ranges Only)

SAMPLE INFO: Filtration ☐ Field ☐ Lab to do; Preservation ☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	EPH	VPH	TPH	EPH-04-1	Petroleum Hydrocarbon ID (TPH) by GC/FID-EPA 8015D-Mod.	Alkylated PAHs by EPA 8270D-SIM-Modified	PIANO by 8260B (H)	~~PIANO by 8260B (L)~~	VPH-04-1	Sample Comments	TOTAL # BOTTLES
08968 11	ENV-4B-2.5'-3.5'	4/28/15	1142	S	MSC	X	X	X								3
12	ENV-10B-0.0'-2.5'	4/28/15	1230	S	MSC	X	X	X								3
13	ENV-12B-15.0'-17.5'	4/28/15	1335	S	MSC			X	X			X		X		3
14	ENV-13B-17.5'-20.0'	4/28/15	1430	S	MSC	X	X	X				H			HOLD PIANO Analysis	3
08	ENV-1B-15.0'-17.5'	4/28/15	09:30	S	MSC					X	X		X			3
10	ENV-3B-12.5'-15.0'	4/29/15	11:00	S	MSC					X	X		X			3
01	ENV-5B-12.5'-15.0'	4/27/15	09:56	S	MSC					X	X		X			3
06	ENV-8B-12.5'-15.0'	4/29/15	14:45	S	MSC					X	X		X			3
05	ENV-9B-12.5'-15.0'	4/29/15	12:50	S	MSC					H	H		X		HOLD TPH + Alk. PAH Analysis	3
15	ENV-9B-Tar Fragment (10.0'-12.5')	4/29/15	12:40	X 1	MSC					X	X					1
					Container Type	A	V		A	A	A	V	V			
					Preservative	A	F		A	A	A	F	D.I.			

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO_3
D= H_2SO_4
E= NaOH
F= MeOH
G= $NaHSO_4$
H = $Na_2S_2O_3$
I= Ascorbic Acid
J = NH_4Cl
K= Zn Acetate
O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	4/29/15 1355	[signature]	4/29/15 1355
[signature]	4/29/15 1730	[signature]	4/29/15 1730

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

CHAIN OF CUSTODY

PAGE 3 OF 3

Date Rec'd in Lab: 4/29/15

ALPHA Job #: L1508968

ALPHA ANALYTICAL — Worth Glass Chemistry
8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Client Information

Client: ENVIRON

Address: 3 Carlisle Rd, Suite 210, Westford, MA 01886

Phone: 603-703-5534

Email: jnoble@environcorp.com

Project Information

Project Name: Huffman's-284 Winter St.

Project Location: Haverhill, MA

Project #: 08-36060B

Project Manager: John Noble

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 5/13/15

Report Information - Data Deliverables

☒ ADEx ☒ EMAIL

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements & Project Information Requirements

☒ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods

☒ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)

☐ Yes ☒ No GW1 Standards (Info Required for Metals & EPH with Targets)

☐ Yes ☐ No NPDES RGP

☐ Other State /Fed Program _____ Criteria _____

Additional Project Information:

In accordance w/ Master Service Agreement dated 11/15/13

ANALYSIS

VOC: ☐ 8260 ☐ 624 ☐ 524.2
SVOC: ☐ ABN ☐ PAH
METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15
METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13
EPH: ☒ Ranges & Targets ☐ Ranges Only
VPH: ☒ Ranges & Targets ☐ Ranges Only
☐ PCB ☐ PEST
TPH: ☐ Quant Only ☐ Fingerprint

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	EPH-04-1 (Ranges Only) Petroleum Hydrocarbons RT BH by GC/FID-EPH 8015D Mod.	VPH-04-1 (Ranges Only) Aliphatics & Aromatics by EPH 8270D-SIM Modified	PIANO by 8260B (H)	PIANO by 8260B (L)	Sample Comments	TOTAL # BOTTLES
08968-07	ENV-11B-15.0'-17.5'	4/27/15	16:10	S	MSC	X	X		X		3
13	ENV-12B-15.0'-17.5'	4/28/15	13:35	S	MSC	X	X		X		3
14	ENV-13B-17.5'-20.0'	4/28/15	14:30	S	MSC	H	H		H		3
16	Trip Blank	4/22/15			RS			X			1
Container Type						A	A	V	V		
Preservative						A	A	F	D.I.		

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO_3
D= H_2SO_4
E= NaOH
F= MeOH
G= $NaHSO_4$
H= $Na_2S_2O_3$
I= Ascorbic Acid
J= NH_4Cl
K= Zn Acetate
O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
Pat Gilder	4/29/15 1355	Pat Gilder ALL	4/29/15 1355
Pat Gilder	4/29/15 1730	Wells McCleondon	4/29/15 1730

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

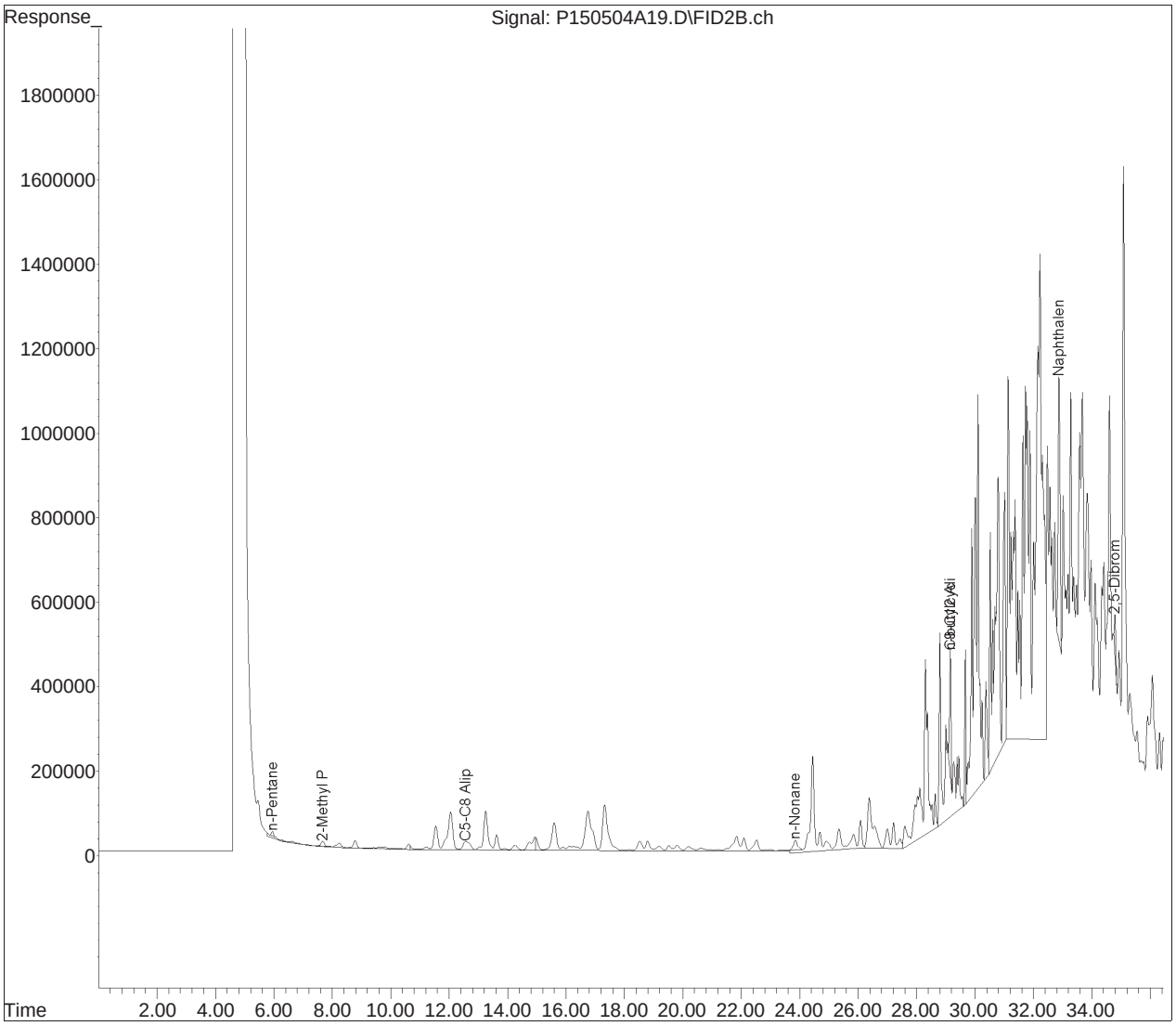
Quantitation Report (QT Reviewed)

Data Path : I:\PVPH\150504ali\
Data File : P150504A19.D
Signal(s) : FID2B.ch
Acq On : 4 May 2015 10:38 pm
Operator : PVPH:BS
Sample : l1508968-02D,41,16,10.4,.05
Misc : wg781965,ical10927
ALS Vial : 19 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: May 05 09:19:00 2015
Quant Method : I:\PVPH\150504ali\vph-ali.m
Quant Title : VPH ALIPHATIC
QLast Update : Thu Apr 23 07:59:10 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Sub List : Default - All compounds listed



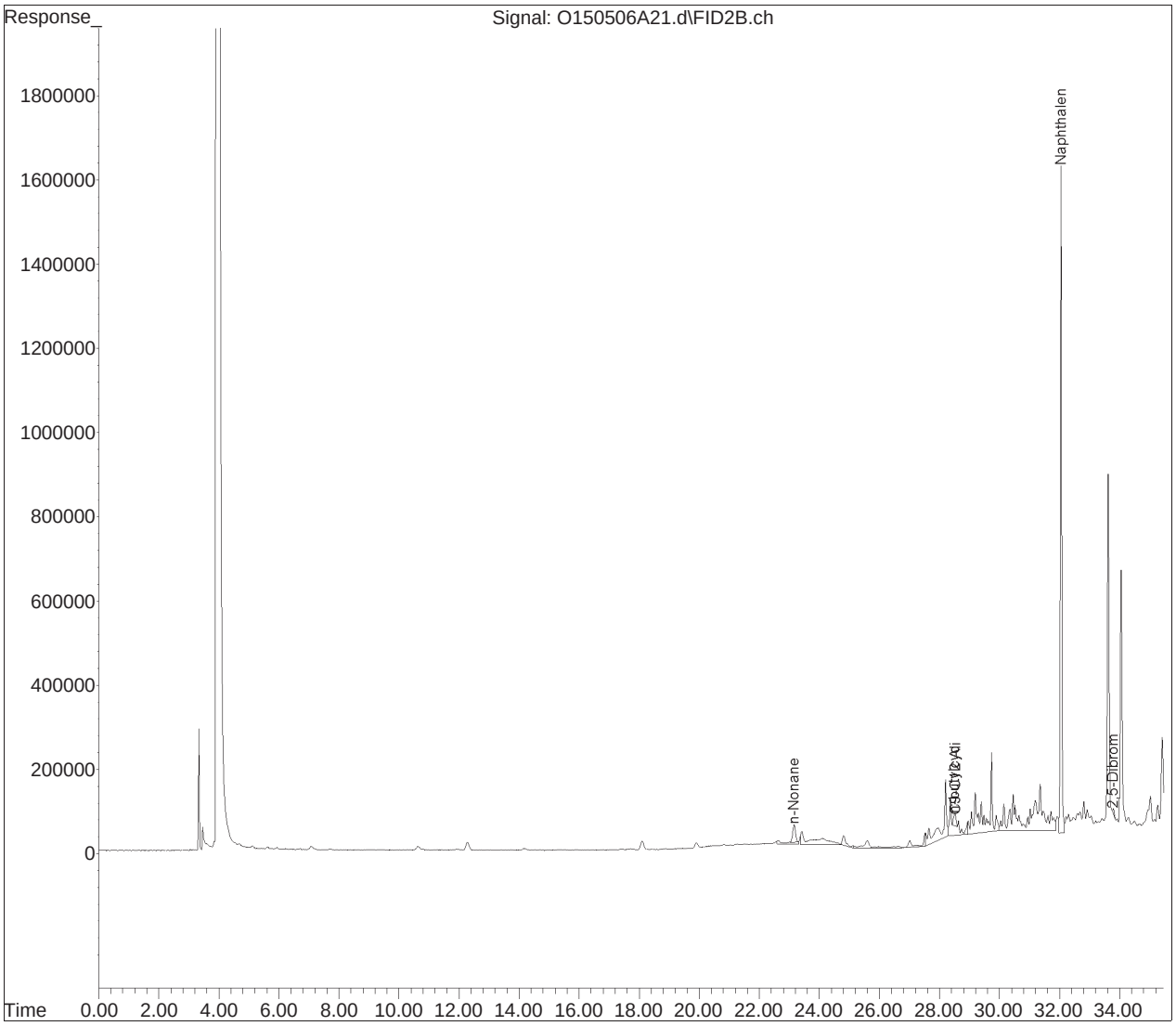
Quantitation Report (QT Reviewed)

Data Path : I:\OVPH\150506ali\
Data File : O150506A21.d
Signal(s) : FID2B.ch
Acq On : 7 May 2015 12:47 am
Operator : OVPH:BS
Sample : l1508968-04D,41,16,11.4,.005
Misc : wg782859,ical10992
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: May 07 08:50:40 2015
Quant Method : I:\OVPH\150506ali\vph-ali.m
Quant Title : VPH ALIPHATIC
QLast Update : Wed May 06 08:40:20 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Sub List : Default - All compounds listed



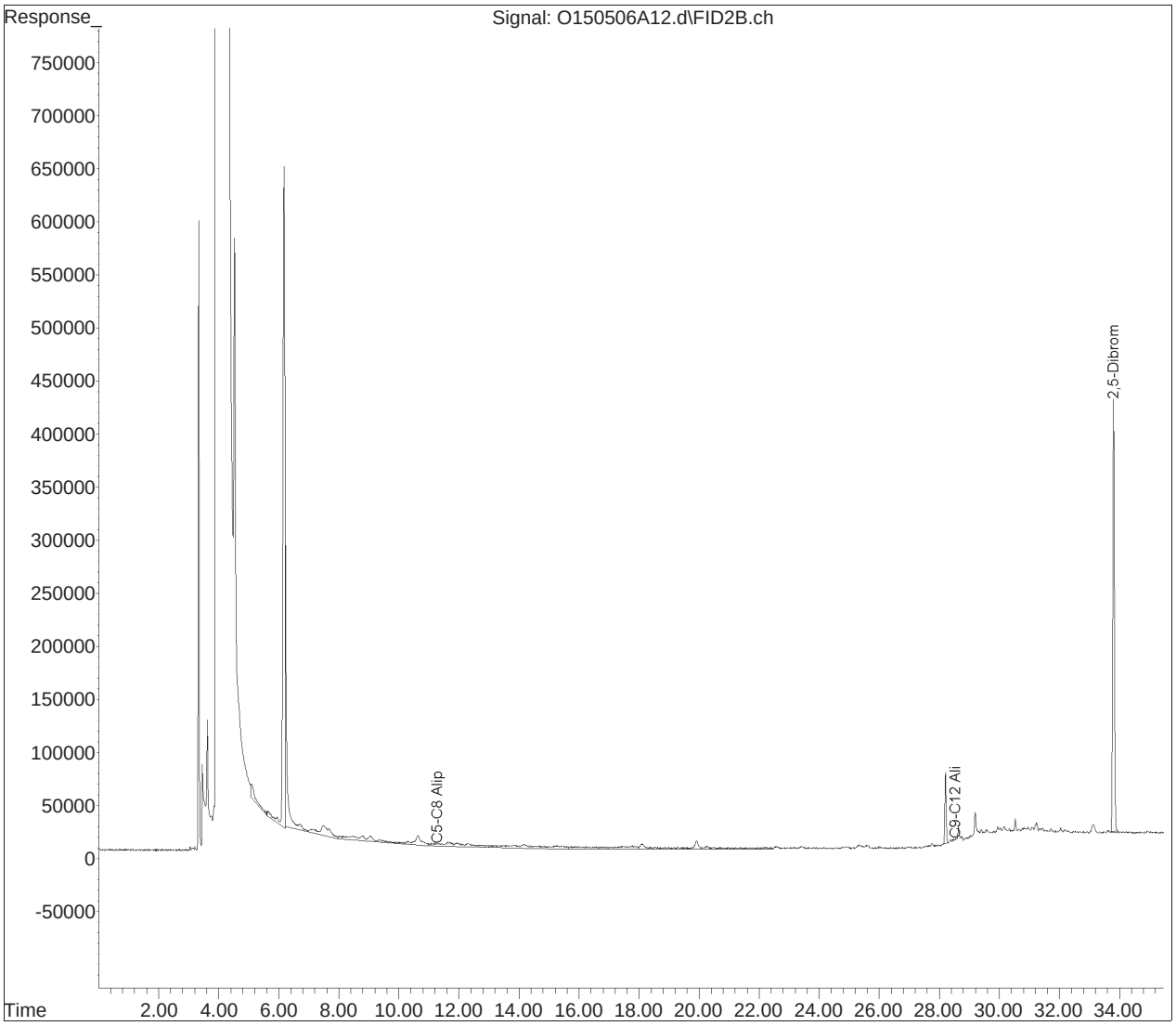
Quantitation Report (QT Reviewed)

Data Path : I:\OVPH\150506ali\
Data File : O150506A12.d
Signal(s) : FID2B.ch
Acq On : 6 May 2015 6:45 pm
Operator : OVPH:BS
Sample : l1508968-12,41,16,18.5,.1
Misc : wg782859,ical10992
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: May 07 08:39:39 2015
Quant Method : I:\OVPH\150506ali\vph-ali.m
Quant Title : VPH ALIPHATIC
QLast Update : Wed May 06 08:40:20 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Sub List : Default - All compounds listed



GC-FID Chromatogram

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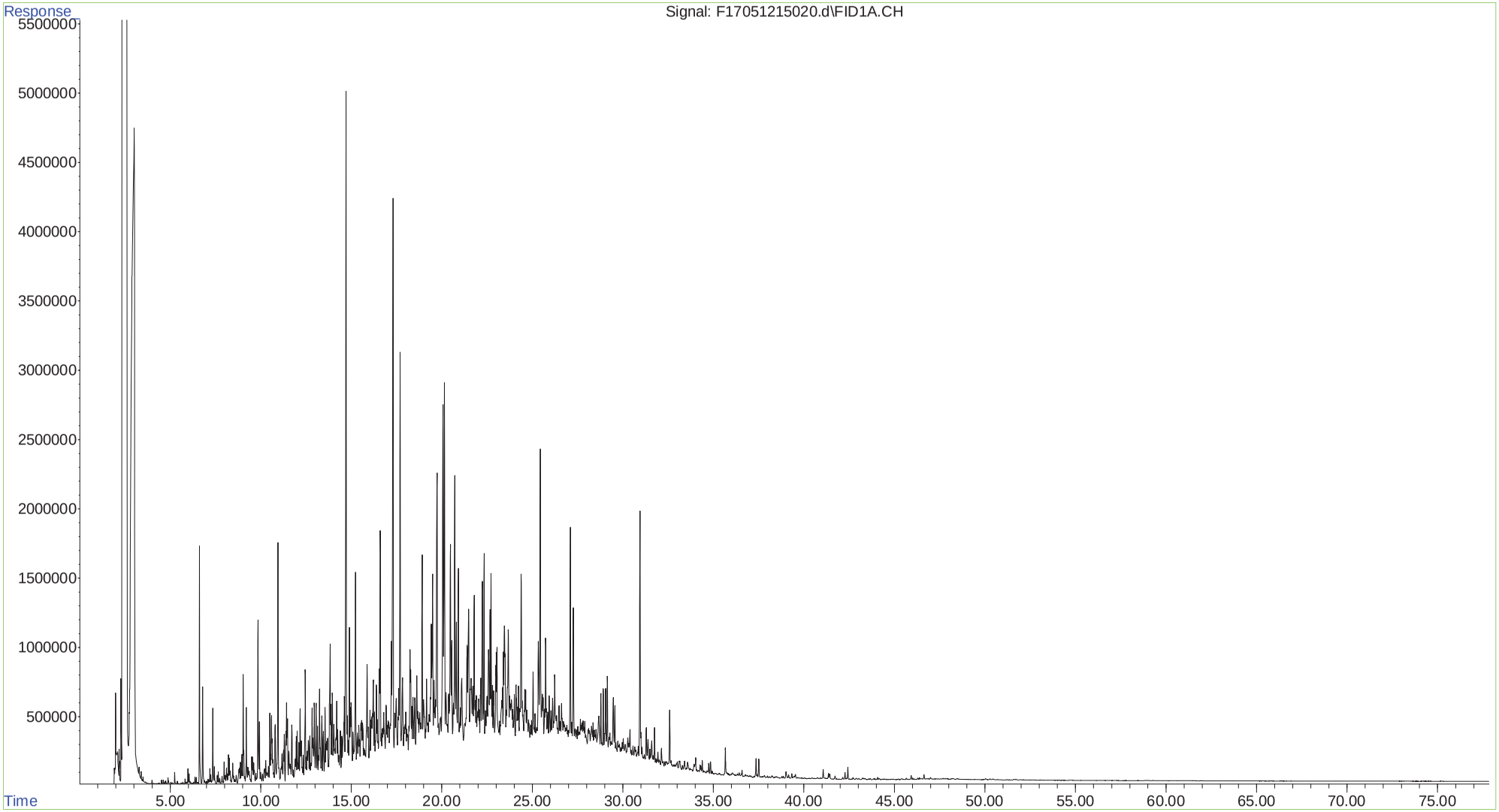
File       :O:\Forensics\Data\FID17\2015\May\MAY12\F17051215020.d
Operator  : FID17:NL
Acquired  : 13 May 2015   4:15 am using AcqMethod FID17.M
Instrument :   FID17
Sample    : L1508968-01,42
Misc Info : WG784294,WG783304,ICAL10428
ALS Vial  : 10
```



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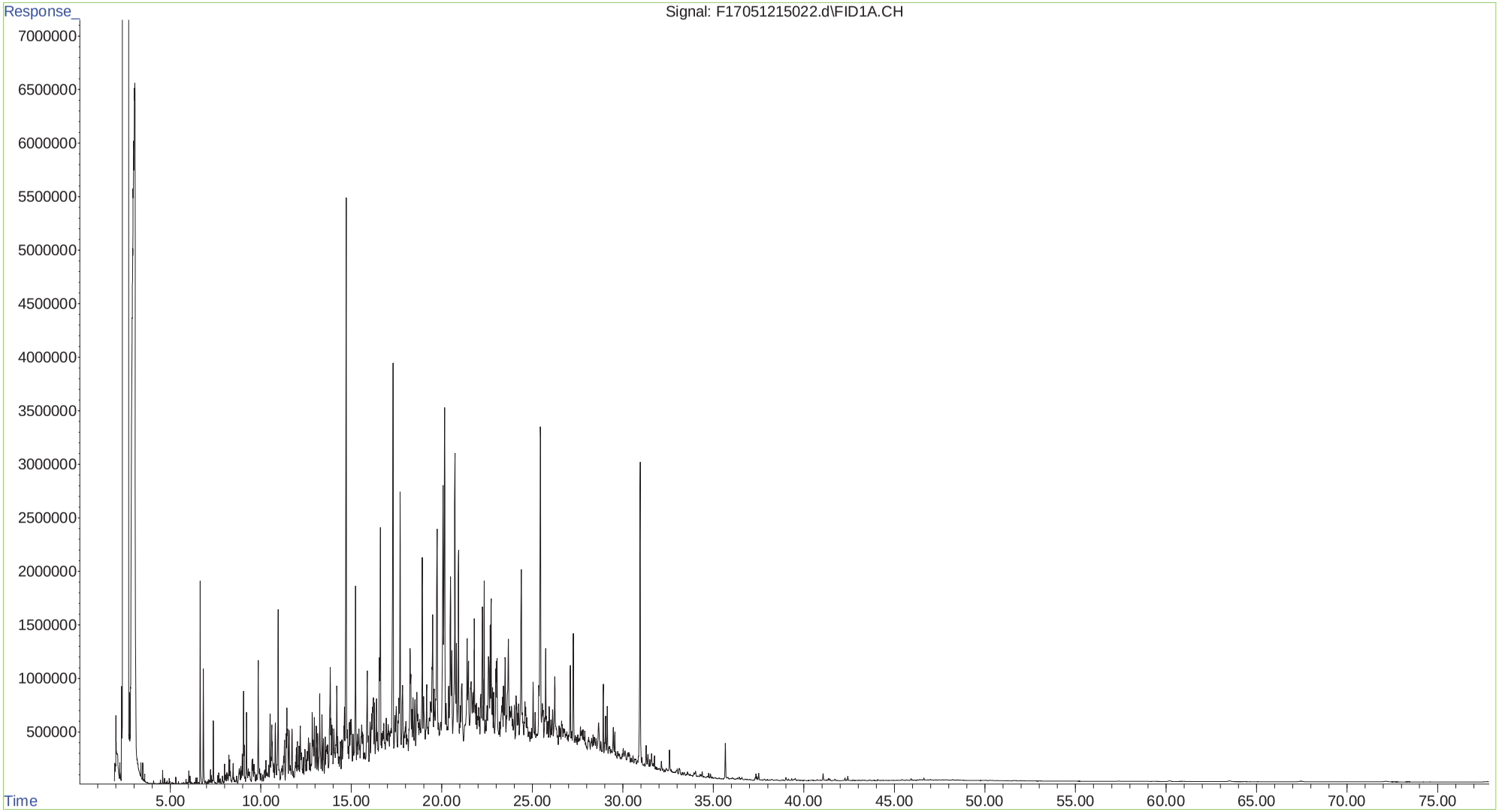
File       :O:\Forensics\Data\FID17\2015\May\MAY12\F17051215022.d
Operator  : FID17:NL
Acquired  : 13 May 2015   5:43 am using AcqMethod FID17.M
Instrument :   FID17
Sample    : L1508968-06,42
Misc Info : WG784294,WG783304,ICAL10428
ALS Vial  : 11
```



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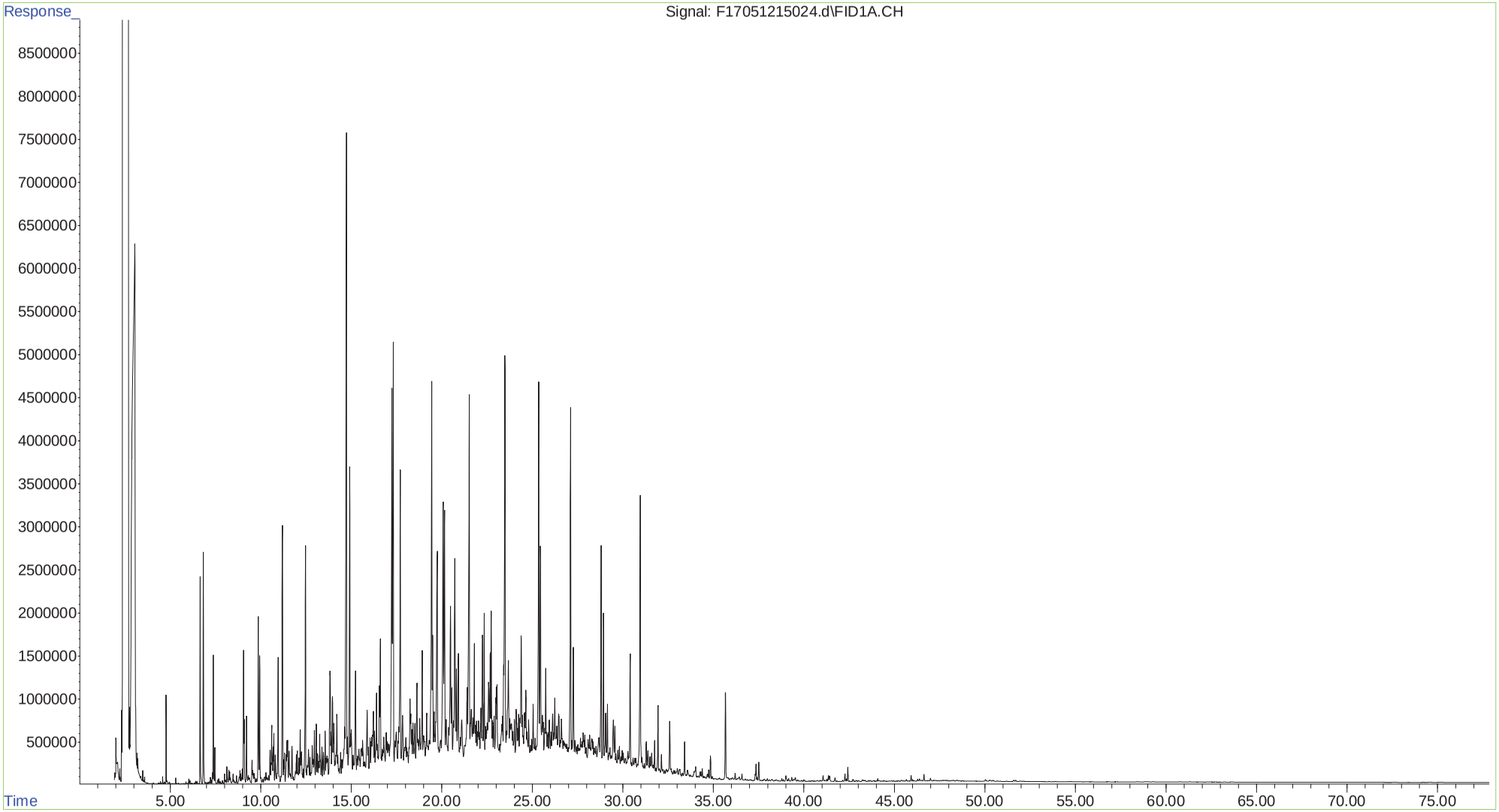
Operator  : FID17:NL
Acquired  : 13 May 2015   7:11 am using AcqMethod FID17.M
Instrument :   FID17
Sample    : L1508968-07,42
Misc Info : WG784294,WG783304,ICAL10428
ALS Vial  : 12
```



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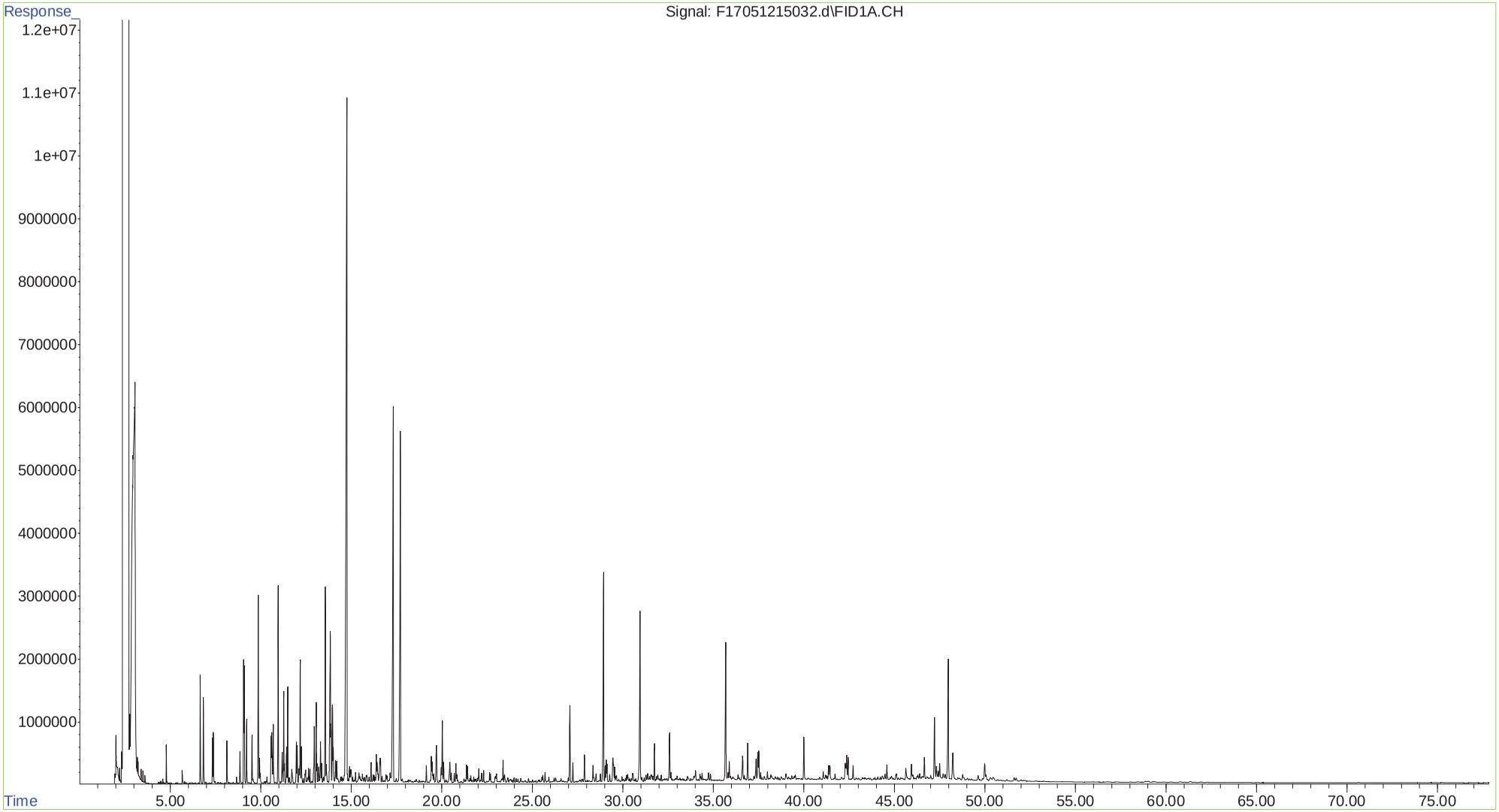
File       :O:\Forensics\Data\FID17\2015\May\MAY12\F17051215032.d
Operator  : FID17:NL
Acquired  : 13 May 2015   1:04 pm using AcqMethod FID17.M
Instrument :   FID17
Sample    : L1508968-08,42
Misc Info : WG784294,WG783304,ICAL10428
ALS Vial  : 16
```



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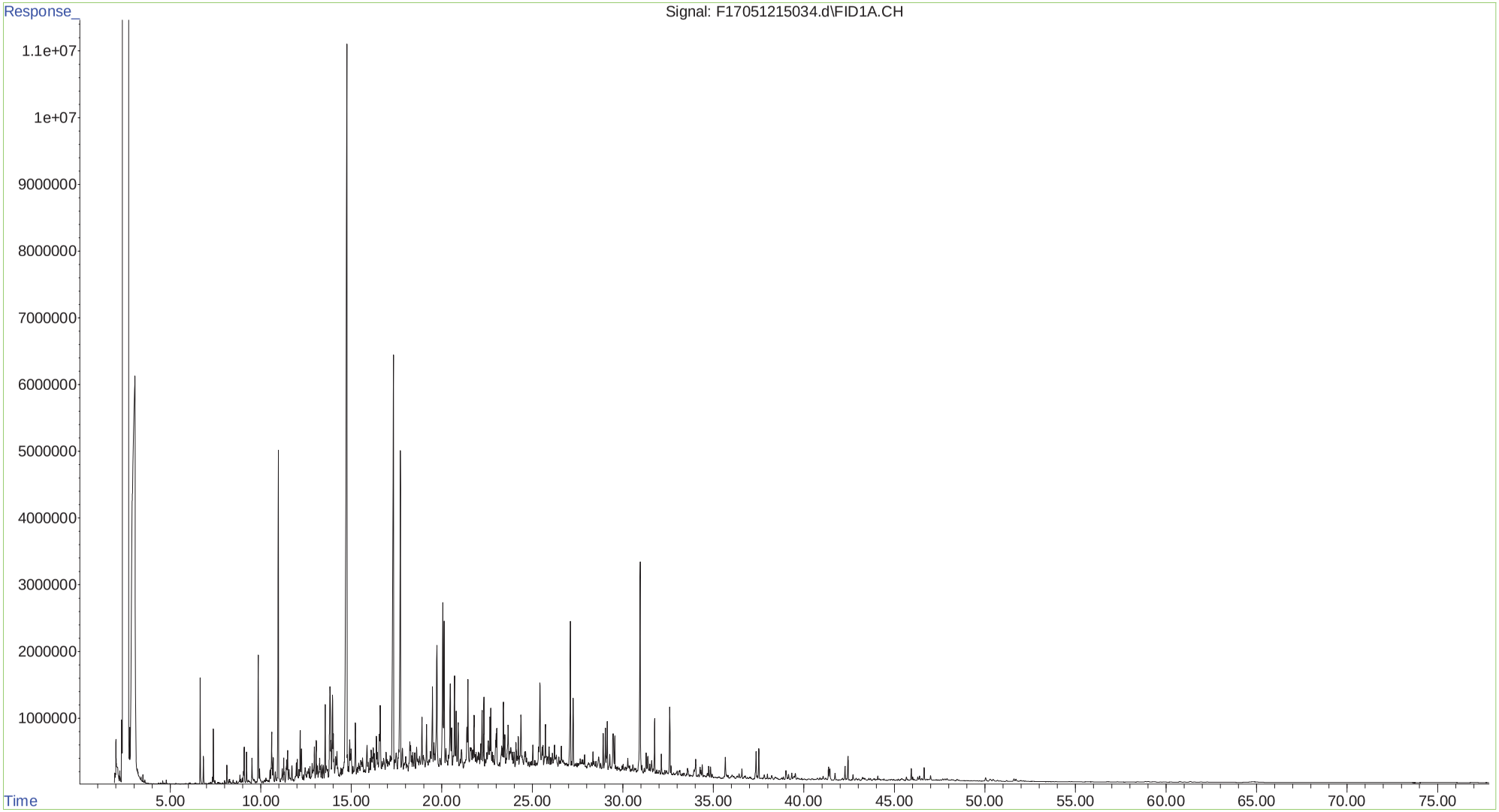
File       :O:\Forensics\Data\FID17\2015\May\MAY12\F17051215034.d
Operator  : FID17:NL
Acquired  : 13 May 2015   2:32 pm using AcqMethod FID17.M
Instrument :   FID17
Sample    : L1508968-10,42
Misc Info : WG784294,WG783304,ICAL10428
ALS Vial  : 17
```



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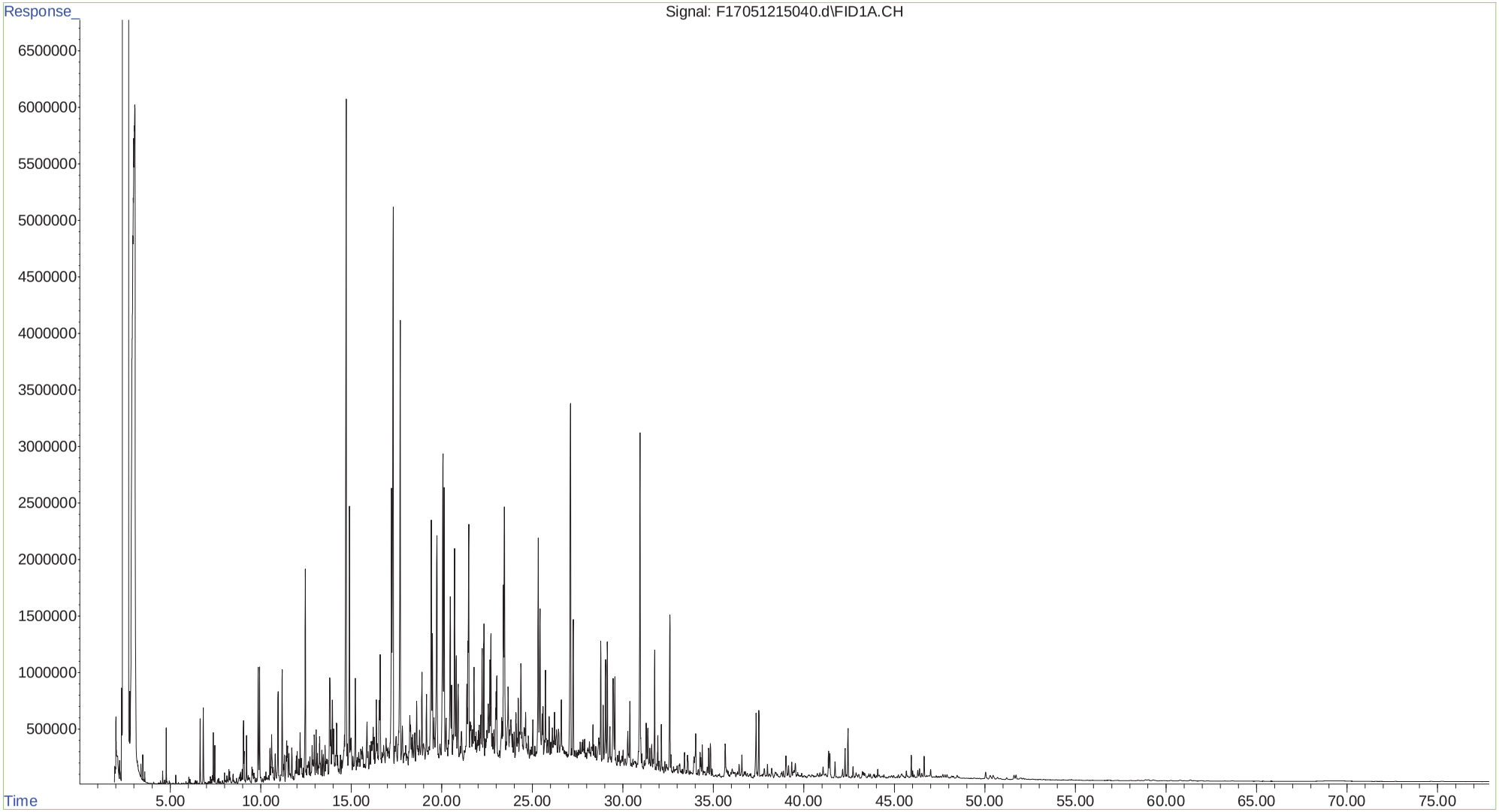
File       :O:\Forensics\Data\FID17\2015\May\MAY12\F17051215040.d
Operator  : FID17:NL
Acquired  : 13 May 2015   6:57 pm using AcqMethod FID17.M
Instrument :   FID17
Sample    : L1508968-13,42
Misc Info : WG784294,WG783304,ICAL10428
ALS Vial  : 20
```



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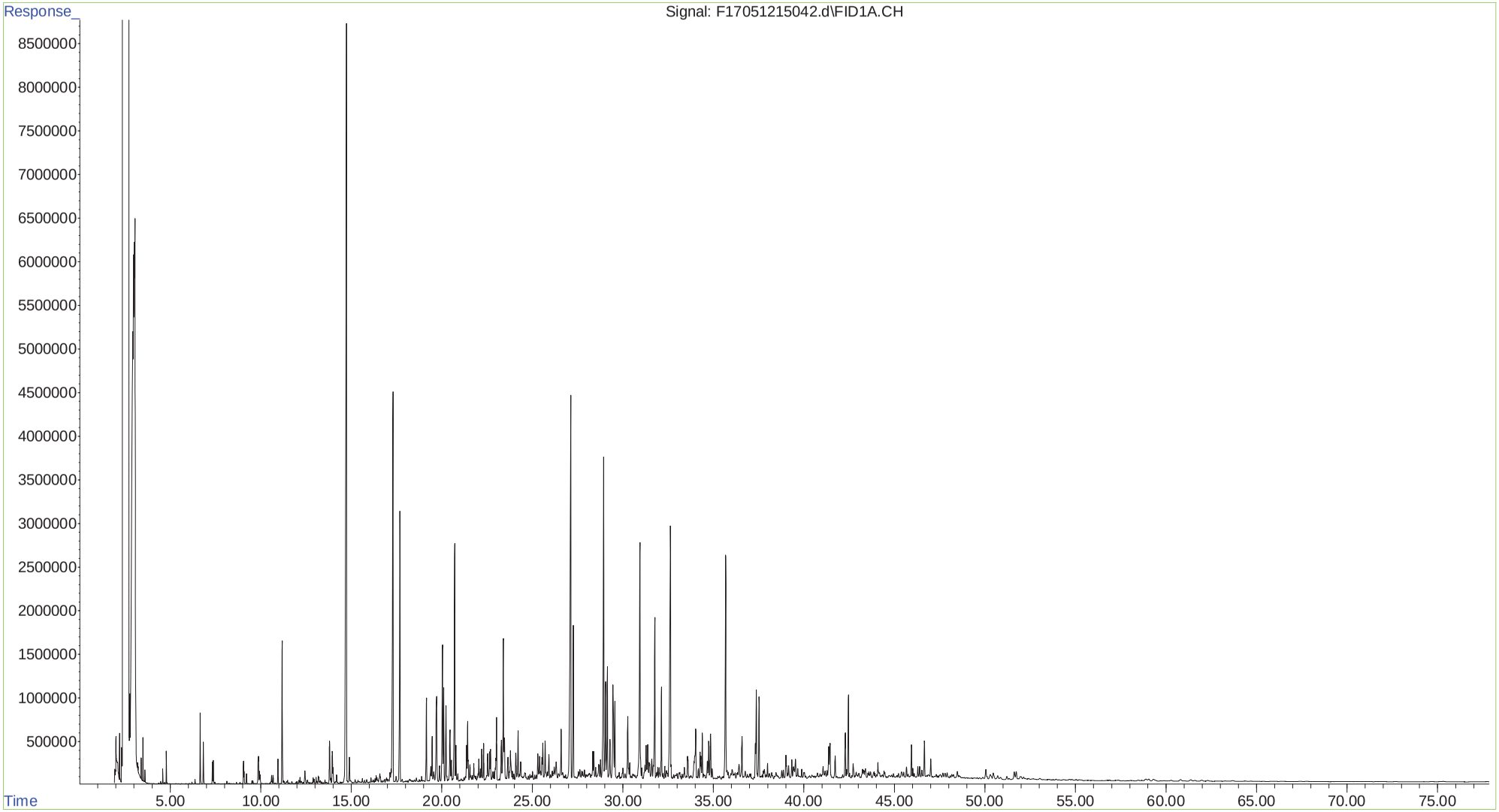
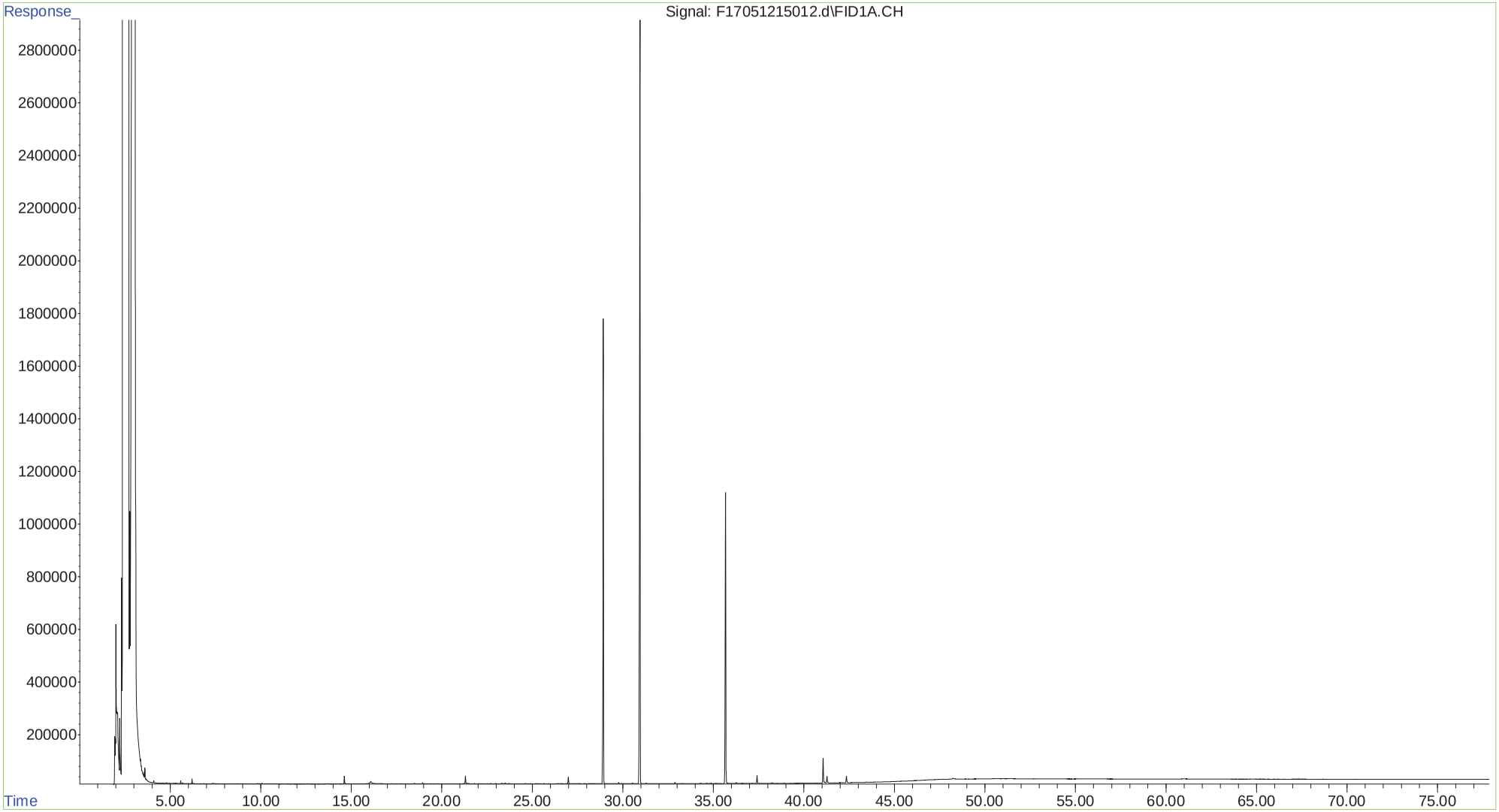
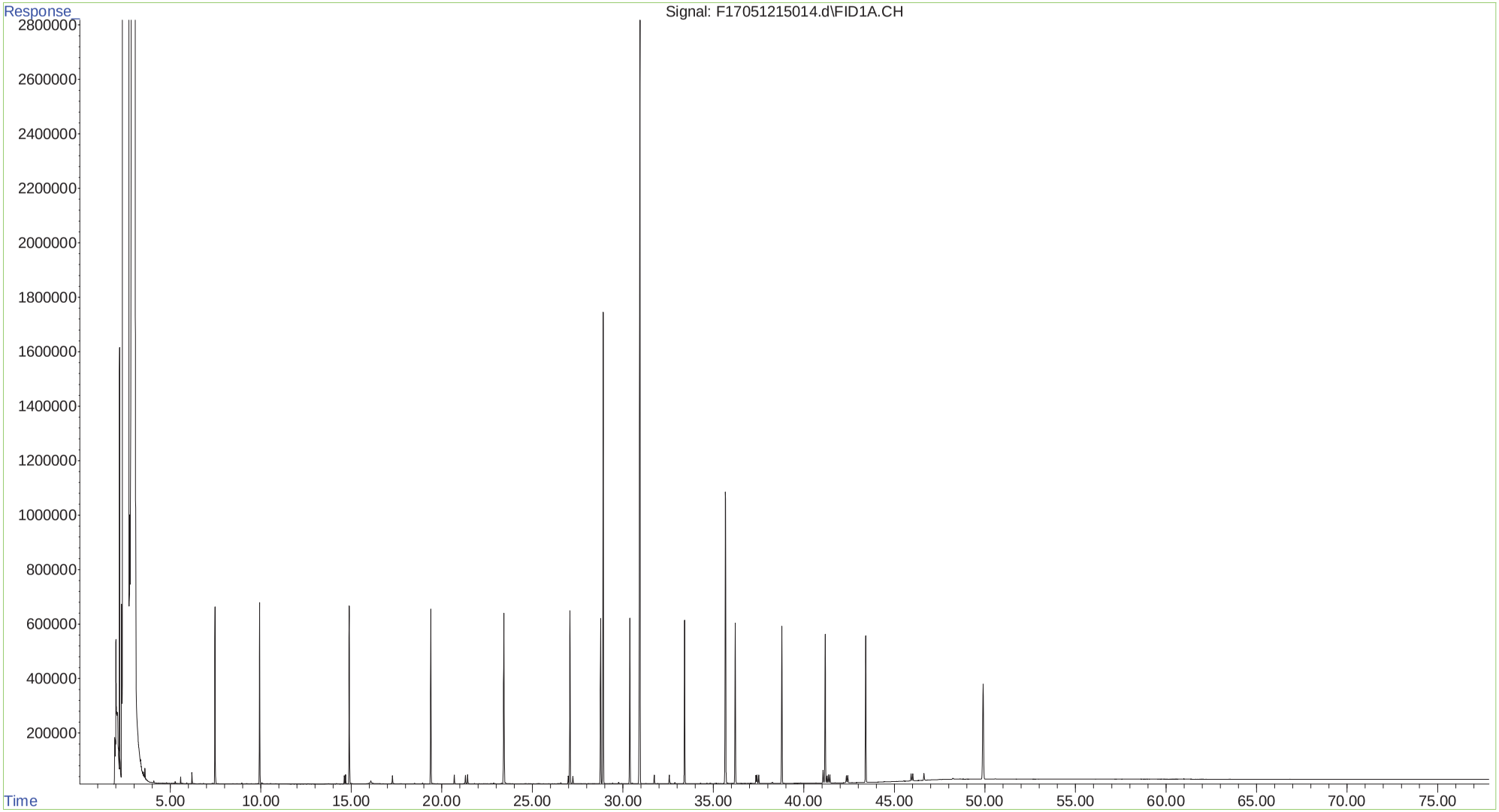
Operator  : FID17:NL
Acquired  : 13 May 2015   8:25 pm using AcqMethod FID17.M
Instrument :   FID17
Sample    : L1508968-15,42
Misc Info : WG786660,WG784289,ICAL10428
ALS Vial  : 21
```



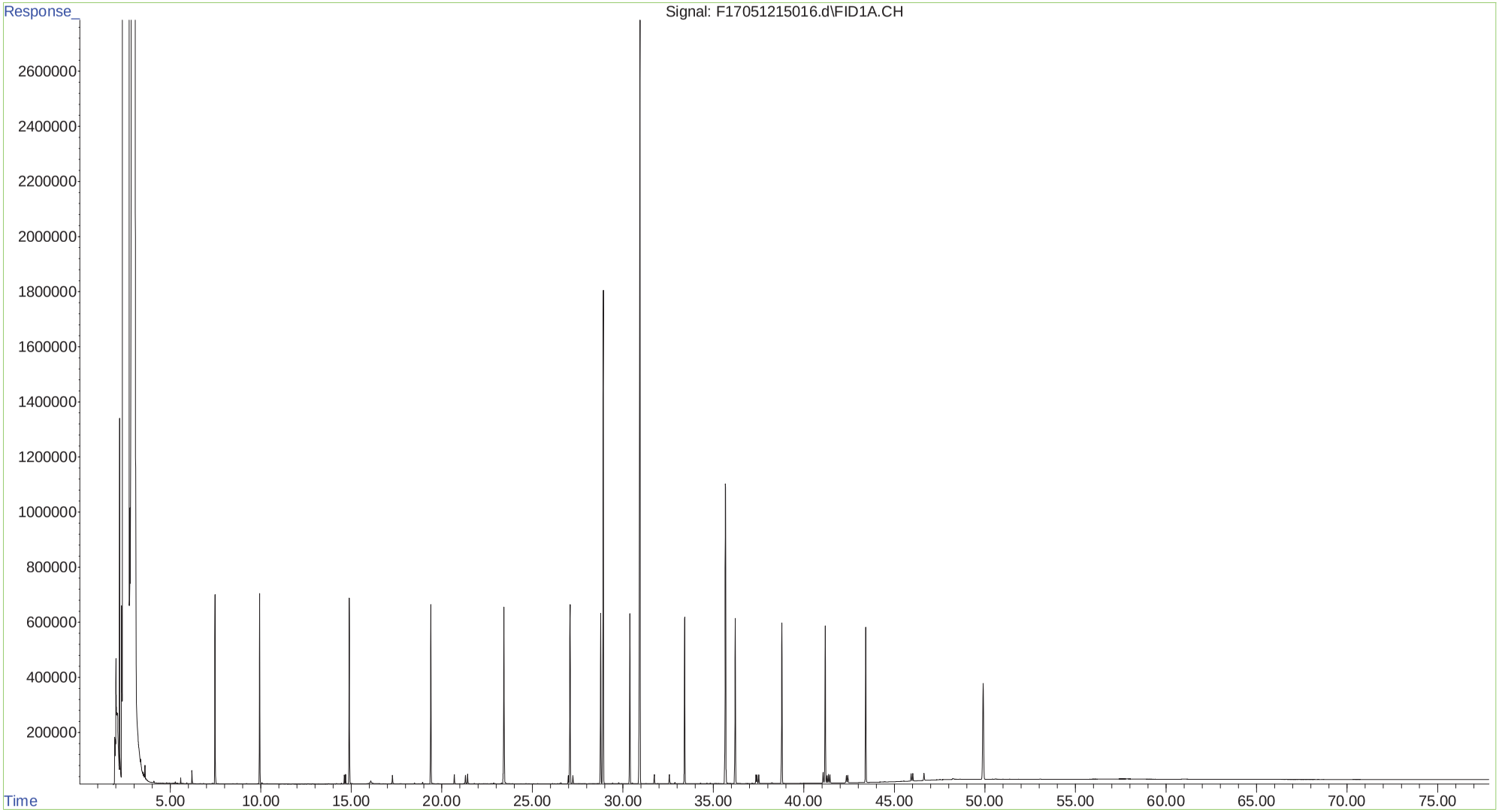
```
File       :O:\Forensics\Data\FID17\2015\May\MAY12\F17051215012.d
Operator  : FID17:NL
Acquired  : 12 May 2015  10:23 pm using AcqMethod FID17.M
Instrument :   FID17
Sample    : WG783304-1,42
Misc Info : WG786660,WG783304,ICAL10428
ALS Vial  : 6
```



```
File       :O:\Forensics\Data\FID17\2015\May\MAY12\F17051215014.d
Operator  : FID17:NL
Acquired  : 12 May 2015  11:51 pm using AcqMethod FID17.M
Instrument :   FID17
Sample    : WG783304-2,42
Misc Info : WG786660,WG783304,ICAL10428
ALS Vial  : 7
```



```
File       :O:\Forensics\Data\FID17\2015\May\MAY12\F17051215016.d
Operator  : FID17:NL
Acquired  : 13 May 2015   1:19 am using AcqMethod FID17.M
Instrument :   FID17
Sample    : WG783304-3,42
Misc Info : WG786660,WG783304,ICAL10428
ALS Vial  : 8
```



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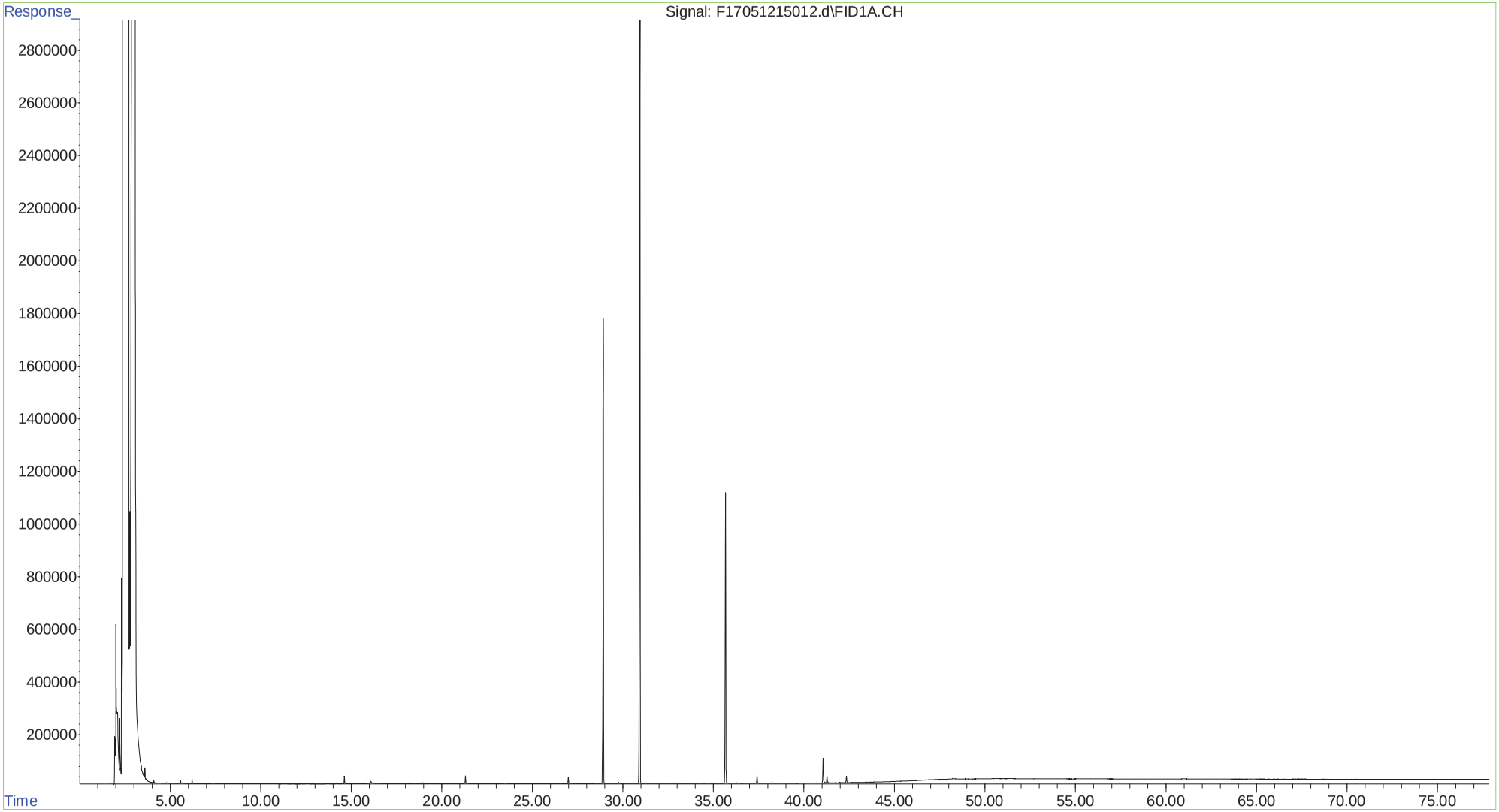
File       :O:\Forensics\Data\FID17\2015\May\MAY12\F17051215012.d
Operator  : FID17:NL
Acquired  : 12 May 2015  10:23 pm using AcqMethod FID17.M
Instrument :   FID17
Sample    : WG784289-1,42
Misc Info : WG786660,WG784289,ICAL10428
ALS Vial  : 6
```



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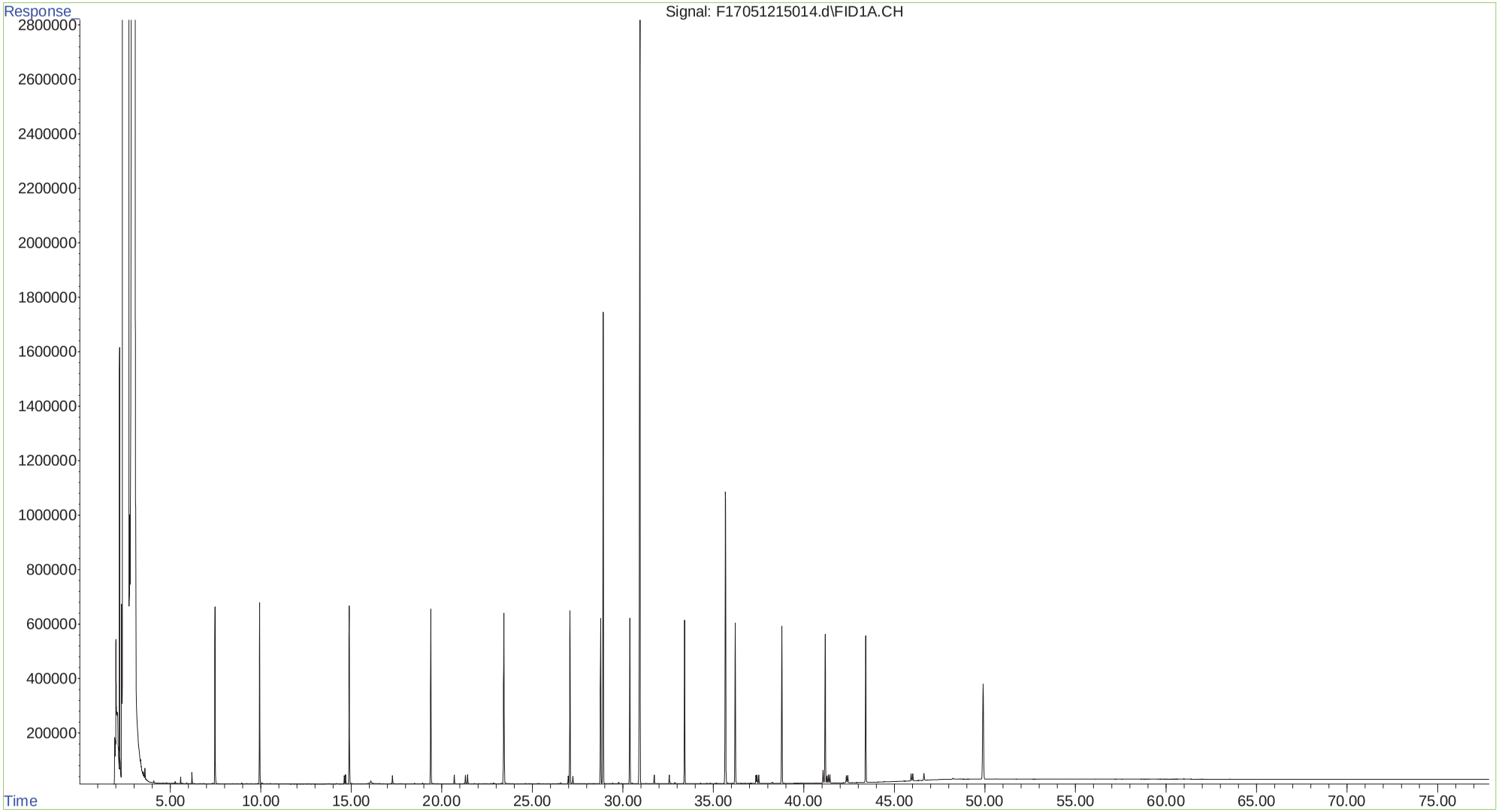
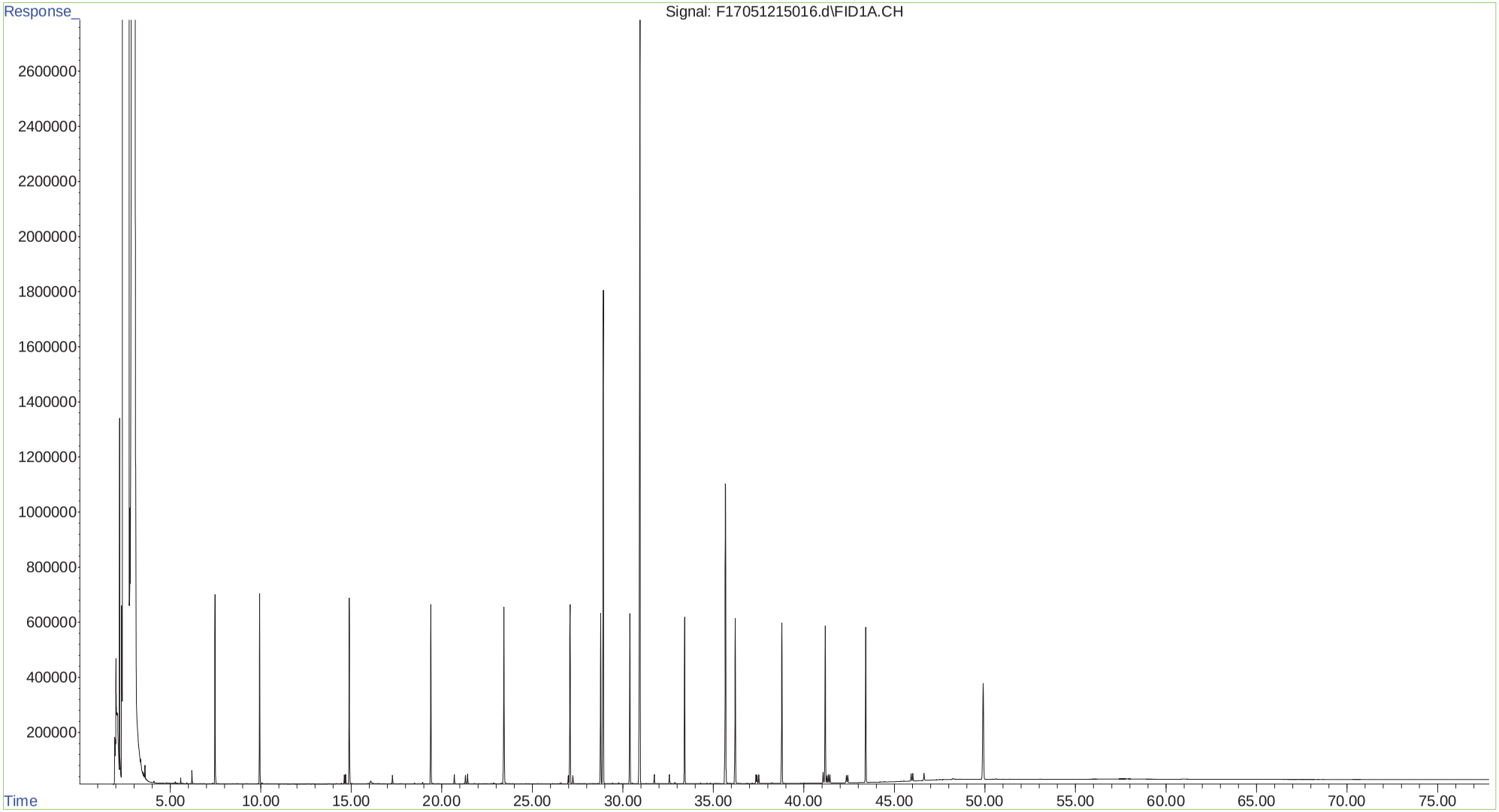
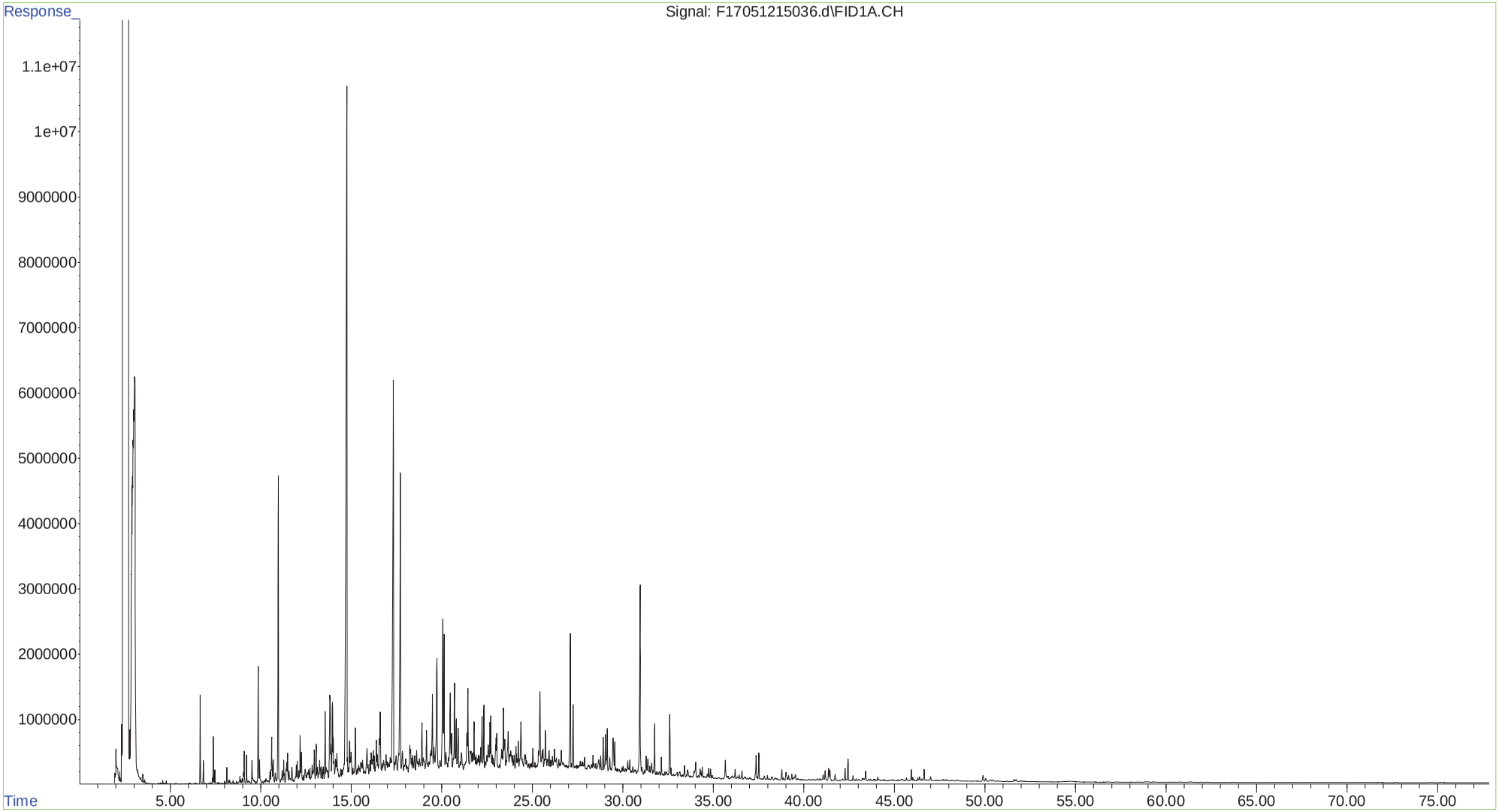
Operator  : FID17:NL
Acquired  : 12 May 2015  11:51 pm using AcqMethod FID17.M
Instrument :   FID17
Sample    : WG784289-2,42
Misc Info : WG786660,WG784289,ICAL10428
ALS Vial  : 7
```



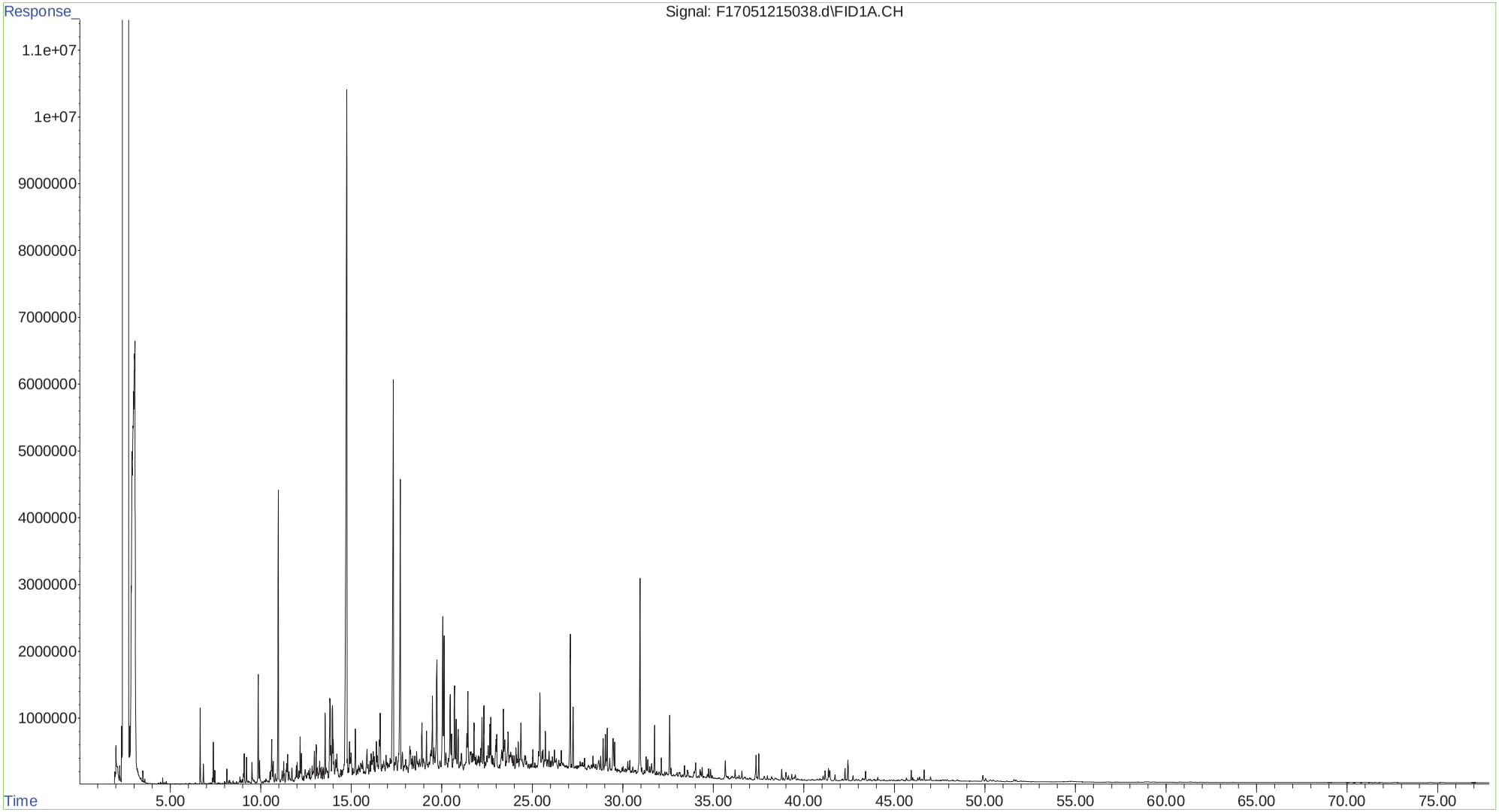
```
File       :O:\Forensics\Data\FID17\2015\May\MAY12\F17051215016.d
Operator  : FID17:NL
Acquired  : 13 May 2015   1:19 am using AcqMethod FID17.M
Instrument :   FID17
Sample    : WG784289-3,42
Misc Info : WG786660,WG784289,ICAL10428
ALS Vial  : 8
```



```
File       :O:\Forensics\Data\FID17\2015\May\MAY12\F17051215036.d
Operator  : FID17:NL
Acquired  : 13 May 2015   4:00 pm using AcqMethod FID17.M
Instrument :   FID17
Sample    : WG783304-4,42
Misc Info : WG784294,WG783304,ICAL10428
ALS Vial  : 18
```



```
File       :O:\Forensics\Data\FID17\2015\May\MAY12\F17051215038.d
Operator  : FID17:NL
Acquired  : 13 May 2015   5:29 pm using AcqMethod FID17.M
Instrument :   FID17
Sample    : WG783304-5,42
Misc Info : WG784294,WG783304,ICAL10428
ALS Vial  : 19
```



Petroleum Reference Standards

Data Path : O:\Forensics\Data\FID17\2015\May\MAY12\
Data File : F17051215044.d
Signal(s) : FID1A.CH
Acq On : 13 May 2015 9:53 pm
Operator : FID17:NL
Sample : Alkane Reference Standard (C8 - C40)
Misc : WG786660, FRAV13 50ug/mL
ALS Vial : 22 Sample Multiplier: 1

Integration File: SHCINT2.E
Quant Time: May 20 13:23:15 2015
Quant Method : O:\Forensics\Data\FID17\2015\May\MAY12\HC17111014F.M
Quant Title : FID Forensics
QLast Update : Wed May 20 13:23:07 2015
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

Sub List : CCAL - CCAL

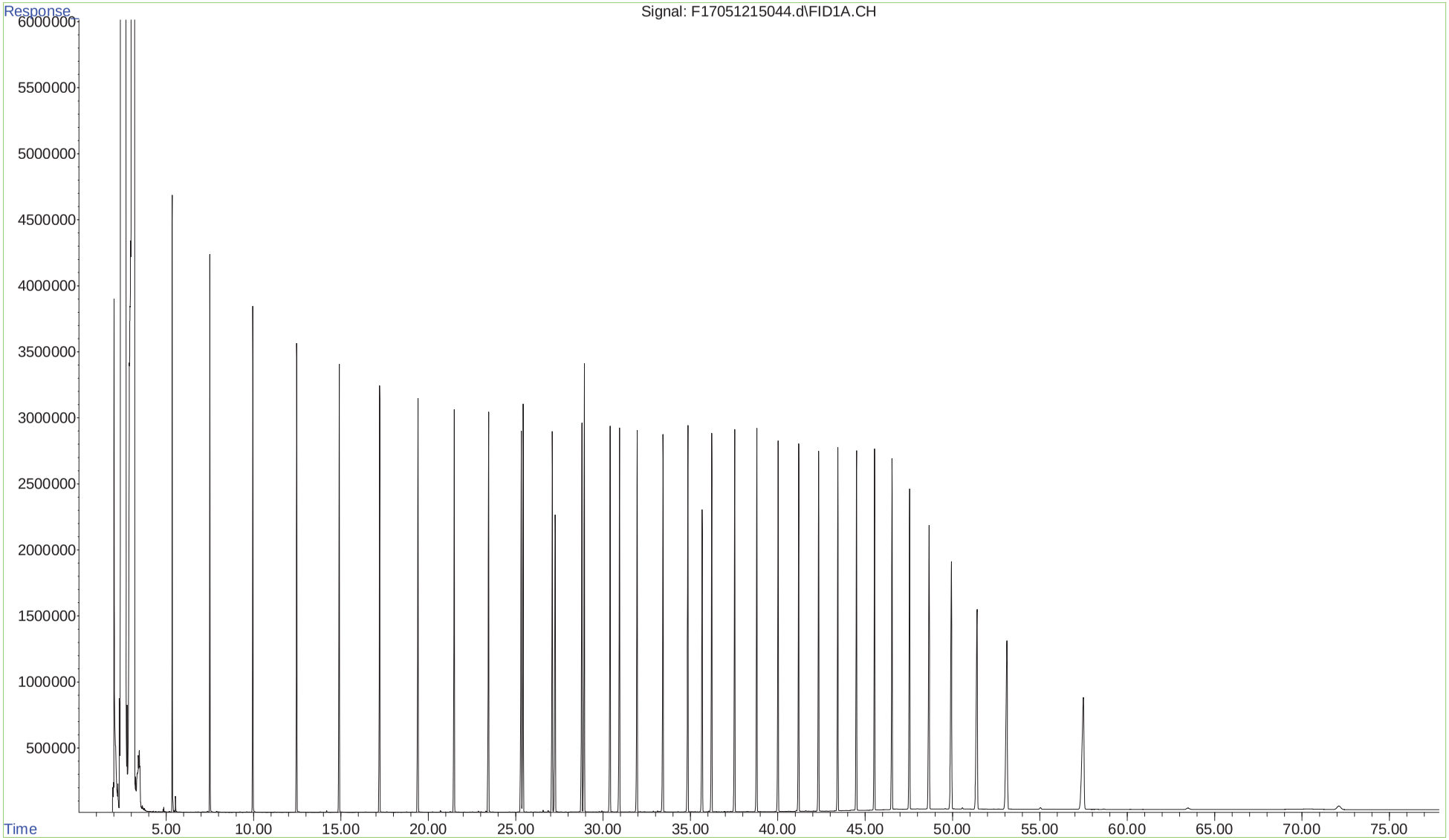
	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5-alpha-androstane	30.944	72903929	50.000	ug/mL	M4
	System Monitoring Compounds					
19) s	ortho-terphenyl	28.929	80522866	50.186	ug/mL	M4
Spiked Amount	50.000	Range 50 - 130	Recovery = 100.37%			
24) s	d50-Tetracosane	35.671	63873581	49.017	ug/mL	M4
Spiked Amount	50.000	Range 50 - 130	Recovery = 98.03%			
	Target Compounds					
2) t	n-Octane (C8)	5.340	56115403	45.450	ug/mL	M4
3) t	n-Nonane (C9)	7.493	63513700	50.004	ug/mL	M4
4) t	n-Decane (C10)	9.956	69144891	53.064	ug/mL	M4
5) t	n-Undecane (C11)	12.467	69425156	52.707	ug/mL	M4
6) t	n-Dodecane (C12)	14.900	70199960	52.450	ug/mL	M4
7) t	n-Tridecane (C13)	17.216	70083050	51.975	ug/mL	M4
9) t	n-Tetradecane (C14)	19.409	71602929	52.451	ug/mL	M4
11) t	n-Pentadecane (C15)	21.483	71129621	51.124	ug/mL	M4
12) t	n-Hexadecane (C16)	23.450	71453302	51.033	ug/mL	M4
14) t	n-Heptadecane (C17)	25.319	71349543	51.320	ug/mL	M4
15) t	Pristane	25.430	72220569	50.288	ug/mL	M4
16) t	n-Octadecane (C18)	27.096	71900792	50.316	ug/mL	M4
17) t	Phytane	27.260	70867492	56.206	ug/mL	M4
18) t	n-Nonadecane (C19)	28.789	71460318	50.160	ug/mL	M4
20) t	n-Eicosane (C20)	30.405	71639117	50.378	ug/mL	M4
21) t	n-Heneicosane (C21)	31.952	71841045	50.143	ug/mL	M4
22) t	n-Docosane (C22)	33.433	72407186	50.031	ug/mL	M4
23) t	n-Tricosane (C23)	34.856	72518748	49.615	ug/mL	M4
25) t	n-Tetracosane (C24)	36.223	72246118	49.343	ug/mL	M4
26) t	n-Pentacosane (C25)	37.537	72784822	49.967	ug/mL	M4
27) t	n-Hexacosane (C26)	38.802	73240077	49.181	ug/mL	M4
28) t	n-Heptacosane (C27)	40.022	72256302	48.767	ug/mL	M4
29) t	n-Octacosane (C28)	41.199	72349446	48.898	ug/mL	M4
30) t	n-Nonacosane (C29)	42.339	72498462	48.888	ug/mL	M4
31) t	n-Triacontane (C30)	43.438	72094648	48.387	ug/mL	M4
32) t	n-Hentriacontane (C31)	44.507	72389162	48.550	ug/mL	M4
33) t	n-Dotriacontane (C32)	45.540	72071540	47.981	ug/mL	M4
34) t	n-Tritriacontane (C33)	46.539	69369768	48.794	ug/mL	M4
35) t	n-tetratriacontane (C34)	47.544	72643480	48.988	ug/mL	M4
36) t	n-Pentatriacontane (C35)	48.660	73225506	49.090	ug/mL	M4
37) t	n-Hexatriacontane (C36)	49.934	76869000	50.136	ug/mL	M4
38) t	n-Heptatriacontane (C37)	51.405	73329723	48.799	ug/mL	M4
39) t	n-Octatriacontane (C38)	53.114	72667336	49.291	ug/mL	M4
41) t	n-Tetracontane (C40)	57.484	68856682	44.685	ug/mL	M4

SemiQuant Compounds - Not Calibrated on this Instrument

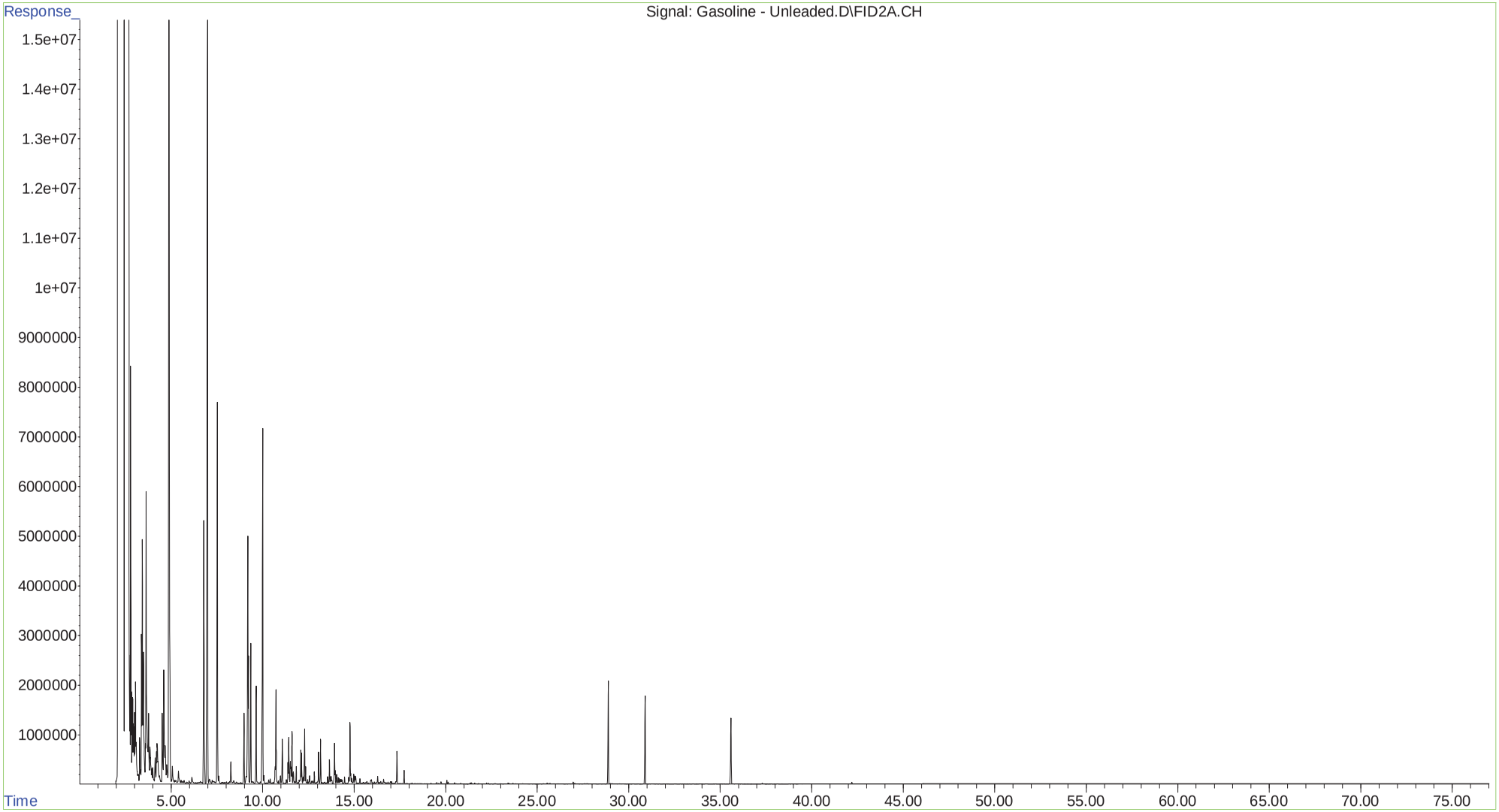
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

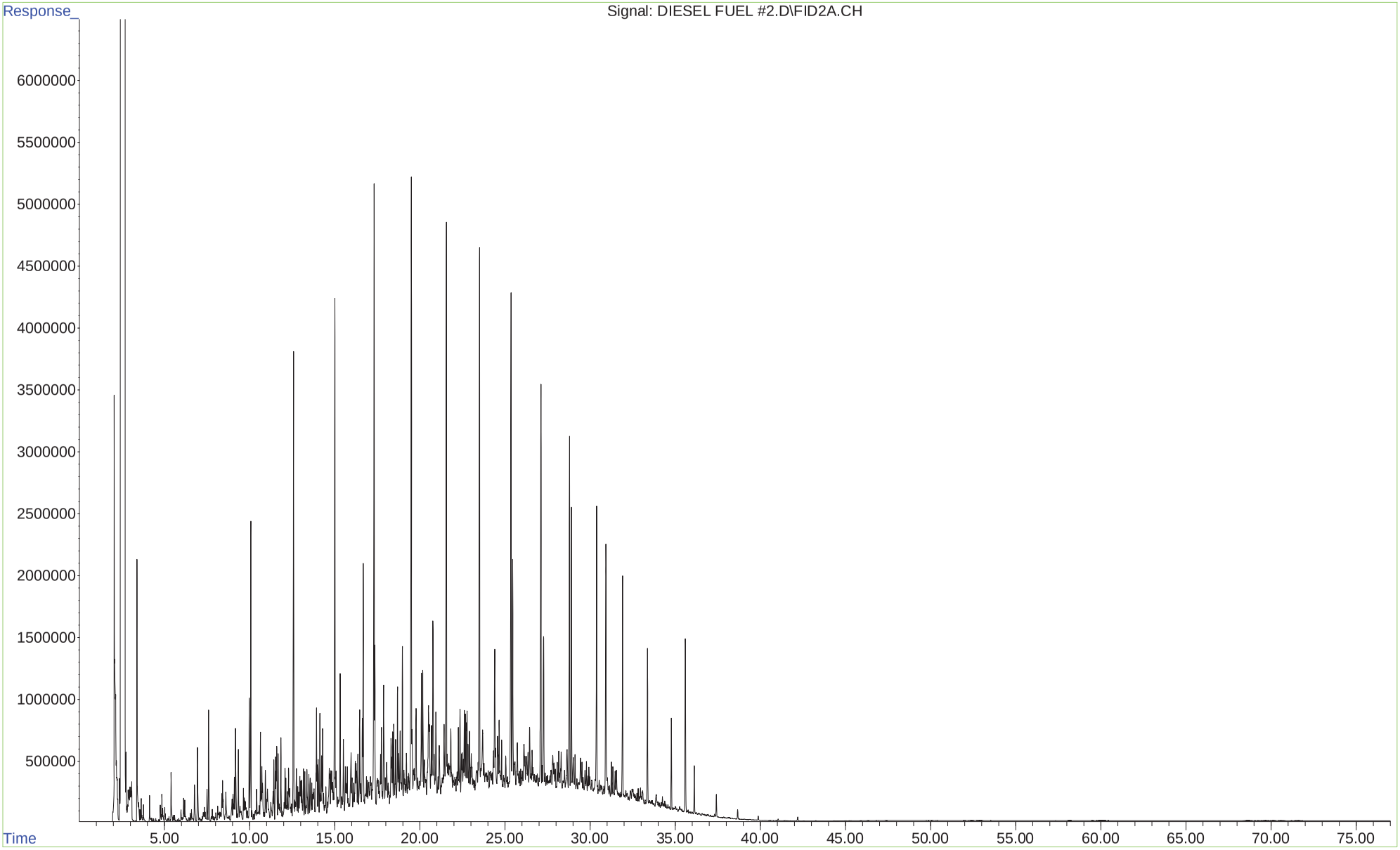
Data Path : O:\Forensics\Data\FID17\2015\May\MAY12\
Data File : F17051215044.d
Operator : FID17:NL
Acquired : 13 May 2015 9:53 pm using AcqMethod FID17.M
Instrument: FID17
Sample : Alkane Reference Standard (C8 - C40)
Misc Info : WG786660, FRAV13 50ug/mL
ALS Vial : 22



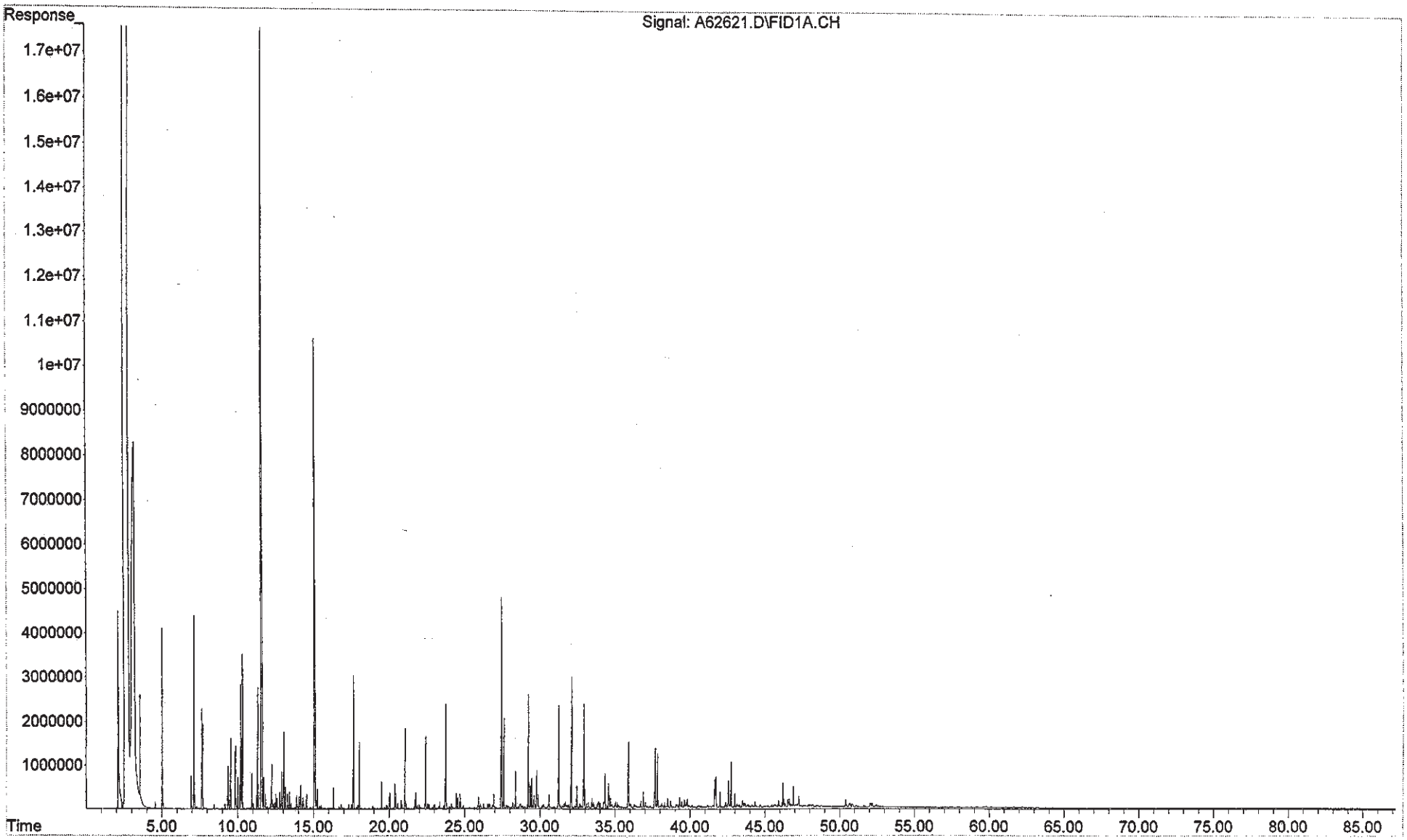
```
File       :O:\Forensics\LIBRARY\Hydrocarbon Reference Standards\Gasolin
...         e - Unleaded.D
Operator  : PAH2:AC
Instrument :   PAH 2
Acquired  : 21 Nov 2011   6:14 pm using AcqMethod FRNC2AF.M
Sample    : GASOLINE UNPB
Misc Info : 1X F050410L
```



```
File        :O:\FORENSICS\LIBRARY\HYDROCARBON REFERENCE STANDARDS\DIESEL
...          FUEL #2.D
Operator   : PAH2:AC
Instrument :   PAH 2
Acquired   : 18 Nov 2011   8:19 pm using AcqMethod FRNC2AF.M
Sample     : #2 DIESEL FUEL
Misc Info  : F050410A
```



File :O:\Forensics\Data\FID6\MAR08\MAR18\A62621.D
Operator : NLJr
Acquired : 20 Mar 2008 4:26 pm using AcqMethod FID6A.M
Instrument : FID6
Sample Name: R603190803
Misc Info : Coal Tar Reference Standard
Vial Number: 34



ANALYTICAL REPORT

Lab Number:	L1510372
Client:	Environ 3 Carlisle Rd Suite 210 Westford, MA 01450
ATTN:	John Noble
Phone:	(978) 449-0300
Project Name:	HAFFNER'S-284 WINTER ST.
Project Number:	08-36060B
Report Date:	05/21/15

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Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

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

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1510372
Report Date: 05/21/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1510372-01	ENV-8MW-20150512	WATER	HAVERHILL, MA	05/12/15 10:25	05/13/15
L1510372-02	ENV-5MW-20150512	WATER	HAVERHILL, MA	05/12/15 10:30	05/13/15
L1510372-03	DUP-20150512	WATER	HAVERHILL, MA	05/12/15 11:00	05/13/15
L1510372-04	ENV-1MW-20150512	WATER	HAVERHILL, MA	05/12/15 13:35	05/13/15
L1510372-05	MW-3-20150512	WATER	HAVERHILL, MA	05/12/15 14:30	05/13/15
L1510372-06	MW-2-20150512	WATER	HAVERHILL, MA	05/12/15 15:58	05/13/15
L1510372-07	MW-1-20150512	WATER	HAVERHILL, MA	05/12/15 16:30	05/13/15
L1510372-08	EB-20150512	WATER	HAVERHILL, MA	05/12/15 17:25	05/13/15
L1510372-09	TB-20150512	WATER	HAVERHILL, MA	05/08/15 00:00	05/13/15

Project Name: HAFFNER'S-284 WINTER ST. **Lab Number:** L1510372

Project Number: 08-36060B **Report Date:** 05/21/15

MADEP MCP Response Action Analytical Report Certification

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

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

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

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

Project Name: HAFFNER'S-284 WINTER ST. **Lab Number:** L1510372
Project Number: 08-36060B **Report Date:** 05/21/15

Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	HAFFNER'S-284 WINTER ST.	**Lab Number:**	L1510372
Project Number:	08-36060B	**Report Date:**	05/21/15

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

L1510372-02 and -03 were received above the appropriate pH for the EPH analysis. The laboratory added additional HCl to a pH <2.

VPH

L1510372-02: Differences were noted between the results of the original analysis and the re-analysis on dilution which have been attributed to vial discrepancies. Further re-analysis could not be performed due to the existing vials being compromised.

L1510372-05 and -06 have elevated detection limits due to the dilutions required by the elevated concentrations of non-target compounds in the samples.

In reference to question G:

L1510372-01 through -07: One or more of the target analytes did not achieve the requested CAM reporting limits.

EPH

In reference to question G:

L1510372-01 through -08: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

L1510372-07: The surrogate recoveries are below the acceptance criteria for chloro-octadecane (0%) and o-terphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

WG785493: A Matrix Spike/Matrix Spike Duplicate was not analyzed because the dilution required by the elevated concentrations of target compounds present in the sample to be utilized for the MS/MSD would have caused the spike compounds to be diluted below the range of calibration.

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

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative

Date: 05/21/15

ORGANICS

PETROLEUM HYDROCARBONS

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1510372
Report Date: 05/21/15

SAMPLE RESULTS

Lab ID:	L1510372-01 D	Date Collected:	05/12/15 10:25
Client ID:	ENV-8MW-20150512	Date Received:	05/13/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	05/19/15 23:53		
Analyst:	BS		

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	6600		ug/l	1000	--	20
C9-C12 Aliphatics	25200		ug/l	1000	--	20
C9-C10 Aromatics	2900		ug/l	1000	--	20
C5-C8 Aliphatics, Adjusted	2530		ug/l	1000	--	20
C9-C12 Aliphatics, Adjusted	14700		ug/l	1000	--	20
Benzene	4010		ug/l	40.0	--	20
Toluene	50.9		ug/l	40.0	--	20
Ethylbenzene	3530		ug/l	40.0	--	20
p/m-Xylene	2700		ug/l	40.0	--	20
o-Xylene	1380		ug/l	40.0	--	20
Methyl tert butyl ether	ND		ug/l	60.0	--	20
Naphthalene	3180		ug/l	80.0	--	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	118		70-130
2,5-Dibromotoluene-FID	125		70-130

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1510372
Report Date: 05/21/15

SAMPLE RESULTS

Lab ID:	L1510372-01 D	Date Collected:	05/12/15 10:25
Client ID:	ENV-8MW-20150512	Date Received:	05/13/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	98,EPH-04-1.1	Extraction Date:	05/15/15 21:06
Analytical Date:	05/20/15 18:51	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	05/18/15

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		ug/l	1000	--	10
C19-C36 Aliphatics	ND		ug/l	1000	--	10
C11-C22 Aromatics	2740		ug/l	1000	--	10
C11-C22 Aromatics, Adjusted	1250		ug/l	1000	--	10
Naphthalene	1290		ug/l	100	--	10
2-Methylnaphthalene	204		ug/l	100	--	10
Acenaphthylene	ND		ug/l	100	--	10
Acenaphthene	ND		ug/l	100	--	10
Fluorene	ND		ug/l	100	--	10
Phenanthrene	ND		ug/l	100	--	10
Anthracene	ND		ug/l	100	--	10
Fluoranthene	ND		ug/l	100	--	10
Pyrene	ND		ug/l	100	--	10
Benzo(a)anthracene	ND		ug/l	100	--	10
Chrysene	ND		ug/l	100	--	10
Benzo(b)fluoranthene	ND		ug/l	100	--	10
Benzo(k)fluoranthene	ND		ug/l	100	--	10
Benzo(a)pyrene	ND		ug/l	100	--	10
Indeno(1,2,3-cd)Pyrene	ND		ug/l	100	--	10
Dibenzo(a,h)anthracene	ND		ug/l	100	--	10
Benzo(ghi)perylene	ND		ug/l	100	--	10

Project Name: HAFFNER'S-284 WINTER ST. **Lab Number:** L1510372

Project Number: 08-36060B **Report Date:** 05/21/15

SAMPLE RESULTS

Lab ID:	L1510372-01 D	Date Collected:	05/12/15 10:25
Client ID:	ENV-8MW-20150512	Date Received:	05/13/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	90		40-140
o-Terphenyl	65		40-140
2-Fluorobiphenyl	67		40-140
2-Bromonaphthalene	63		40-140

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1510372
Report Date: 05/21/15

SAMPLE RESULTS

Lab ID:	L1510372-02 D2	Date Collected:	05/12/15 10:30
Client ID:	ENV-5MW-20150512	Date Received:	05/13/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	05/20/15 11:41		
Analyst:	BS		

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	12200		ug/l	5000	--	100
C9-C12 Aliphatics	7300		ug/l	5000	--	100
C9-C10 Aromatics	ND		ug/l	5000	--	100
C5-C8 Aliphatics, Adjusted	ND		ug/l	5000	--	100
C9-C12 Aliphatics, Adjusted	5810		ug/l	5000	--	100
Benzene	6710		ug/l	200	--	100
Toluene	664		ug/l	200	--	100
Ethylbenzene	661		ug/l	200	--	100
p/m-Xylene	492		ug/l	200	--	100
o-Xylene	332		ug/l	200	--	100
Methyl tert butyl ether	ND		ug/l	300	--	100
Naphthalene	1580		ug/l	400	--	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	113		70-130
2,5-Dibromotoluene-FID	122		70-130

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1510372
Report Date: 05/21/15

SAMPLE RESULTS

Lab ID:	L1510372-02 D	Date Collected:	05/12/15 10:30
Client ID:	ENV-5MW-20150512	Date Received:	05/13/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	05/20/15 01:56		
Analyst:	BS		

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	19800		ug/l	1250	--	25
C9-C12 Aliphatics	1900		ug/l	1250	--	25
C9-C10 Aromatics	ND		ug/l	1250	--	25
C5-C8 Aliphatics, Adjusted	6550		ug/l	1250	--	25
C9-C12 Aliphatics, Adjusted	ND		ug/l	1250	--	25
Benzene	12000	E	ug/l	50.0	--	25
Toluene	1230		ug/l	50.0	--	25
Ethylbenzene	1230		ug/l	50.0	--	25
p/m-Xylene	855		ug/l	50.0	--	25
o-Xylene	562		ug/l	50.0	--	25
Methyl tert butyl ether	ND		ug/l	75.0	--	25
Naphthalene	2210		ug/l	100	--	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	112		70-130
2,5-Dibromotoluene-FID	119		70-130

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1510372
Report Date: 05/21/15

SAMPLE RESULTS

Lab ID:	L1510372-02 D	Date Collected:	05/12/15 10:30
Client ID:	ENV-5MW-20150512	Date Received:	05/13/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	98,EPH-04-1.1	Extraction Date:	05/15/15 21:06
Analytical Date:	05/20/15 21:08	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	05/18/15

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		ug/l	1000	--	10
C19-C36 Aliphatics	ND		ug/l	1000	--	10
C11-C22 Aromatics	1770		ug/l	1000	--	10
C11-C22 Aromatics, Adjusted	ND		ug/l	1000	--	10
Naphthalene	854		ug/l	100	--	10
2-Methylnaphthalene	146		ug/l	100	--	10
Acenaphthylene	ND		ug/l	100	--	10
Acenaphthene	ND		ug/l	100	--	10
Fluorene	ND		ug/l	100	--	10
Phenanthrene	ND		ug/l	100	--	10
Anthracene	ND		ug/l	100	--	10
Fluoranthene	ND		ug/l	100	--	10
Pyrene	ND		ug/l	100	--	10
Benzo(a)anthracene	ND		ug/l	100	--	10
Chrysene	ND		ug/l	100	--	10
Benzo(b)fluoranthene	ND		ug/l	100	--	10
Benzo(k)fluoranthene	ND		ug/l	100	--	10
Benzo(a)pyrene	ND		ug/l	100	--	10
Indeno(1,2,3-cd)Pyrene	ND		ug/l	100	--	10
Dibenzo(a,h)anthracene	ND		ug/l	100	--	10
Benzo(ghi)perylene	ND		ug/l	100	--	10

Project Name: HAFFNER'S-284 WINTER ST. **Lab Number:** L1510372

Project Number: 08-36060B **Report Date:** 05/21/15

SAMPLE RESULTS

Lab ID:	L1510372-02 D	Date Collected:	05/12/15 10:30
Client ID:	ENV-5MW-20150512	Date Received:	05/13/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	80		40-140
o-Terphenyl	51		40-140
2-Fluorobiphenyl	56		40-140
2-Bromonaphthalene	60		40-140

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1510372
Report Date: 05/21/15

SAMPLE RESULTS

Lab ID:	L1510372-03 D	Date Collected:	05/12/15 11:00
Client ID:	DUP-20150512	Date Received:	05/13/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	05/20/15 02:37		
Analyst:	BS		

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	14200		ug/l	2500	--	50
C9-C12 Aliphatics	7710		ug/l	2500	--	50
C9-C10 Aromatics	ND		ug/l	2500	--	50
C5-C8 Aliphatics, Adjusted	5060		ug/l	2500	--	50
C9-C12 Aliphatics, Adjusted	5940		ug/l	2500	--	50
Benzene	8260		ug/l	100	--	50
Toluene	834		ug/l	100	--	50
Ethylbenzene	812		ug/l	100	--	50
p/m-Xylene	572		ug/l	100	--	50
o-Xylene	386		ug/l	100	--	50
Methyl tert butyl ether	ND		ug/l	150	--	50
Naphthalene	1740		ug/l	200	--	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	112		70-130
2,5-Dibromotoluene-FID	121		70-130

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1510372
Report Date: 05/21/15

SAMPLE RESULTS

Lab ID:	L1510372-03 D	Date Collected:	05/12/15 11:00
Client ID:	DUP-20150512	Date Received:	05/13/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	98,EPH-04-1.1	Extraction Date:	05/15/15 21:06
Analytical Date:	05/20/15 19:37	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	05/18/15

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		ug/l	1000	--	10
C19-C36 Aliphatics	ND		ug/l	1000	--	10
C11-C22 Aromatics	1970		ug/l	1000	--	10
C11-C22 Aromatics, Adjusted	ND		ug/l	1000	--	10
Naphthalene	905		ug/l	100	--	10
2-Methylnaphthalene	154		ug/l	100	--	10
Acenaphthylene	ND		ug/l	100	--	10
Acenaphthene	ND		ug/l	100	--	10
Fluorene	ND		ug/l	100	--	10
Phenanthrene	ND		ug/l	100	--	10
Anthracene	ND		ug/l	100	--	10
Fluoranthene	ND		ug/l	100	--	10
Pyrene	ND		ug/l	100	--	10
Benzo(a)anthracene	ND		ug/l	100	--	10
Chrysene	ND		ug/l	100	--	10
Benzo(b)fluoranthene	ND		ug/l	100	--	10
Benzo(k)fluoranthene	ND		ug/l	100	--	10
Benzo(a)pyrene	ND		ug/l	100	--	10
Indeno(1,2,3-cd)Pyrene	ND		ug/l	100	--	10
Dibenzo(a,h)anthracene	ND		ug/l	100	--	10
Benzo(ghi)perylene	ND		ug/l	100	--	10

Project Name: HAFFNER'S-284 WINTER ST. **Lab Number:** L1510372

Project Number: 08-36060B **Report Date:** 05/21/15

SAMPLE RESULTS

Lab ID:	L1510372-03 D	Date Collected:	05/12/15 11:00
Client ID:	DUP-20150512	Date Received:	05/13/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	82		40-140
o-Terphenyl	57		40-140
2-Fluorobiphenyl	62		40-140
2-Bromonaphthalene	68		40-140

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1510372
Report Date: 05/21/15

SAMPLE RESULTS

Lab ID:	L1510372-04 D	Date Collected:	05/12/15 13:35
Client ID:	ENV-1MW-20150512	Date Received:	05/13/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	05/20/15 03:18		
Analyst:	BS		

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		ug/l	2500	--	50
C9-C12 Aliphatics	20900		ug/l	2500	--	50
C9-C10 Aromatics	5720		ug/l	2500	--	50
C5-C8 Aliphatics, Adjusted	ND		ug/l	2500	--	50
C9-C12 Aliphatics, Adjusted	11500		ug/l	2500	--	50
Benzene	ND		ug/l	100	--	50
Toluene	ND		ug/l	100	--	50
Ethylbenzene	1630		ug/l	100	--	50
p/m-Xylene	1230		ug/l	100	--	50
o-Xylene	797		ug/l	100	--	50
Methyl tert butyl ether	ND		ug/l	150	--	50
Naphthalene	2490		ug/l	200	--	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	111		70-130
2,5-Dibromotoluene-FID	120		70-130

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1510372
Report Date: 05/21/15

SAMPLE RESULTS

Lab ID:	L1510372-04 D	Date Collected:	05/12/15 13:35
Client ID:	ENV-1MW-20150512	Date Received:	05/13/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	98,EPH-04-1.1	Extraction Date:	05/15/15 21:06
Analytical Date:	05/20/15 21:53	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	05/18/15

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		ug/l	1000	--	10
C19-C36 Aliphatics	ND		ug/l	1000	--	10
C11-C22 Aromatics	1960		ug/l	1000	--	10
C11-C22 Aromatics, Adjusted	ND		ug/l	1000	--	10
Naphthalene	1080		ug/l	100	--	10
2-Methylnaphthalene	219		ug/l	100	--	10
Acenaphthylene	ND		ug/l	100	--	10
Acenaphthene	ND		ug/l	100	--	10
Fluorene	ND		ug/l	100	--	10
Phenanthrene	ND		ug/l	100	--	10
Anthracene	ND		ug/l	100	--	10
Fluoranthene	ND		ug/l	100	--	10
Pyrene	ND		ug/l	100	--	10
Benzo(a)anthracene	ND		ug/l	100	--	10
Chrysene	ND		ug/l	100	--	10
Benzo(b)fluoranthene	ND		ug/l	100	--	10
Benzo(k)fluoranthene	ND		ug/l	100	--	10
Benzo(a)pyrene	ND		ug/l	100	--	10
Indeno(1,2,3-cd)Pyrene	ND		ug/l	100	--	10
Dibenzo(a,h)anthracene	ND		ug/l	100	--	10
Benzo(ghi)perylene	ND		ug/l	100	--	10

Project Name: HAFFNER'S-284 WINTER ST. **Lab Number:** L1510372

Project Number: 08-36060B **Report Date:** 05/21/15

SAMPLE RESULTS

Lab ID:	L1510372-04 D	Date Collected:	05/12/15 13:35
Client ID:	ENV-1MW-20150512	Date Received:	05/13/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	68		40-140
o-Terphenyl	55		40-140
2-Fluorobiphenyl	57		40-140
2-Bromonaphthalene	56		40-140

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1510372
Report Date: 05/21/15

SAMPLE RESULTS

Lab ID:	L1510372-05	Date Collected:	05/12/15 14:30
Client ID:	MW-3-20150512	Date Received:	05/13/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	98,EPH-04-1.1	Extraction Date:	05/15/15 21:06
Analytical Date:	05/19/15 00:34	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	05/18/15

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		ug/l	100	--	1
C19-C36 Aliphatics	ND		ug/l	100	--	1
C11-C22 Aromatics	702		ug/l	100	--	1
C11-C22 Aromatics, Adjusted	560		ug/l	100	--	1
Naphthalene	37.3		ug/l	10.0	--	1
2-Methylnaphthalene	30.4		ug/l	10.0	--	1
Acenaphthylene	28.4		ug/l	10.0	--	1
Acenaphthene	14.9		ug/l	10.0	--	1
Fluorene	13.9		ug/l	10.0	--	1
Phenanthrene	16.2		ug/l	10.0	--	1
Anthracene	ND		ug/l	10.0	--	1
Fluoranthene	ND		ug/l	10.0	--	1
Pyrene	ND		ug/l	10.0	--	1
Benzo(a)anthracene	ND		ug/l	10.0	--	1
Chrysene	ND		ug/l	10.0	--	1
Benzo(b)fluoranthene	ND		ug/l	10.0	--	1
Benzo(k)fluoranthene	ND		ug/l	10.0	--	1
Benzo(a)pyrene	ND		ug/l	10.0	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	10.0	--	1
Dibenzo(a,h)anthracene	ND		ug/l	10.0	--	1
Benzo(ghi)perylene	ND		ug/l	10.0	--	1

Project Name: HAFFNER'S-284 WINTER ST. **Lab Number:** L1510372

Project Number: 08-36060B **Report Date:** 05/21/15

SAMPLE RESULTS

Lab ID:	L1510372-05	Date Collected:	05/12/15 14:30
Client ID:	MW-3-20150512	Date Received:	05/13/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	72		40-140
o-Terphenyl	80		40-140
2-Fluorobiphenyl	74		40-140
2-Bromonaphthalene	80		40-140

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1510372
Report Date: 05/21/15

SAMPLE RESULTS

Lab ID:	L1510372-05 D	Date Collected:	05/12/15 14:30
Client ID:	MW-3-20150512	Date Received:	05/13/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	05/19/15 23:12		
Analyst:	BS		

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	170		ug/l	125	--	2.5
C9-C12 Aliphatics	592		ug/l	125	--	2.5
C9-C10 Aromatics	270		ug/l	125	--	2.5
C5-C8 Aliphatics, Adjusted	165		ug/l	125	--	2.5
C9-C12 Aliphatics, Adjusted	311		ug/l	125	--	2.5
Benzene	5.18		ug/l	5.00	--	2.5
Toluene	ND		ug/l	5.00	--	2.5
Ethylbenzene	ND		ug/l	5.00	--	2.5
p/m-Xylene	5.24		ug/l	5.00	--	2.5
o-Xylene	5.62		ug/l	5.00	--	2.5
Methyl tert butyl ether	ND		ug/l	7.50	--	2.5
Naphthalene	64.1		ug/l	10.0	--	2.5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	124		70-130
2,5-Dibromotoluene-FID	119		70-130

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1510372
Report Date: 05/21/15

SAMPLE RESULTS

Lab ID:	L1510372-06 D	Date Collected:	05/12/15 15:58
Client ID:	MW-2-20150512	Date Received:	05/13/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	05/20/15 03:59		
Analyst:	BS		

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		ug/l	2500	--	50
C9-C12 Aliphatics	11500		ug/l	2500	--	50
C9-C10 Aromatics	2680		ug/l	2500	--	50
C5-C8 Aliphatics, Adjusted	ND		ug/l	2500	--	50
C9-C12 Aliphatics, Adjusted	6430		ug/l	2500	--	50
Benzene	ND		ug/l	100	--	50
Toluene	ND		ug/l	100	--	50
Ethylbenzene	1220		ug/l	100	--	50
p/m-Xylene	551		ug/l	100	--	50
o-Xylene	656		ug/l	100	--	50
Methyl tert butyl ether	ND		ug/l	150	--	50
Naphthalene	3510		ug/l	200	--	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	112		70-130
2,5-Dibromotoluene-FID	121		70-130

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1510372
Report Date: 05/21/15

SAMPLE RESULTS

Lab ID:	L1510372-06 D	Date Collected:	05/12/15 15:58
Client ID:	MW-2-20150512	Date Received:	05/13/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	98,EPH-04-1.1	Extraction Date:	05/15/15 21:06
Analytical Date:	05/20/15 20:22	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	05/18/15

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		ug/l	1000	--	10
C19-C36 Aliphatics	ND		ug/l	1000	--	10
C11-C22 Aromatics	2520		ug/l	1000	--	10
C11-C22 Aromatics, Adjusted	ND		ug/l	1000	--	10
Naphthalene	1520		ug/l	100	--	10
2-Methylnaphthalene	279		ug/l	100	--	10
Acenaphthylene	ND		ug/l	100	--	10
Acenaphthene	ND		ug/l	100	--	10
Fluorene	ND		ug/l	100	--	10
Phenanthrene	ND		ug/l	100	--	10
Anthracene	ND		ug/l	100	--	10
Fluoranthene	ND		ug/l	100	--	10
Pyrene	ND		ug/l	100	--	10
Benzo(a)anthracene	ND		ug/l	100	--	10
Chrysene	ND		ug/l	100	--	10
Benzo(b)fluoranthene	ND		ug/l	100	--	10
Benzo(k)fluoranthene	ND		ug/l	100	--	10
Benzo(a)pyrene	ND		ug/l	100	--	10
Indeno(1,2,3-cd)Pyrene	ND		ug/l	100	--	10
Dibenzo(a,h)anthracene	ND		ug/l	100	--	10
Benzo(ghi)perylene	ND		ug/l	100	--	10

Project Name: HAFFNER'S-284 WINTER ST. **Lab Number:** L1510372

Project Number: 08-36060B **Report Date:** 05/21/15

SAMPLE RESULTS

Lab ID:	L1510372-06 D	Date Collected:	05/12/15 15:58
Client ID:	MW-2-20150512	Date Received:	05/13/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	75		40-140
o-Terphenyl	57		40-140
2-Fluorobiphenyl	57		40-140
2-Bromonaphthalene	57		40-140

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1510372
Report Date: 05/21/15

SAMPLE RESULTS

Lab ID:	L1510372-07 D	Date Collected:	05/12/15 16:30
Client ID:	MW-1-20150512	Date Received:	05/13/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	05/20/15 04:39		
Analyst:	BS		

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	15700		ug/l	2500	--	50
C9-C12 Aliphatics	6790		ug/l	2500	--	50
C9-C10 Aromatics	ND		ug/l	2500	--	50
C5-C8 Aliphatics, Adjusted	5410		ug/l	2500	--	50
C9-C12 Aliphatics, Adjusted	5450		ug/l	2500	--	50
Benzene	9150		ug/l	100	--	50
Toluene	1150		ug/l	100	--	50
Ethylbenzene	620		ug/l	100	--	50
p/m-Xylene	335		ug/l	100	--	50
o-Xylene	390		ug/l	100	--	50
Methyl tert butyl ether	ND		ug/l	150	--	50
Naphthalene	5610		ug/l	200	--	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	114		70-130
2,5-Dibromotoluene-FID	122		70-130

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1510372
Report Date: 05/21/15

SAMPLE RESULTS

Lab ID:	L1510372-07 D	Date Collected:	05/12/15 16:30
Client ID:	MW-1-20150512	Date Received:	05/13/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	98,EPH-04-1.1	Extraction Date:	05/15/15 21:06
Analytical Date:	05/21/15 12:06	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	05/19/15

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		ug/l	4000	--	40
C19-C36 Aliphatics	ND		ug/l	4000	--	40
C11-C22 Aromatics	5690		ug/l	4000	--	40
C11-C22 Aromatics, Adjusted	ND		ug/l	4000	--	40
Naphthalene	3560		ug/l	400	--	40
2-Methylnaphthalene	ND		ug/l	400	--	40
Acenaphthylene	ND		ug/l	400	--	40
Acenaphthene	ND		ug/l	400	--	40
Fluorene	ND		ug/l	400	--	40
Phenanthrene	ND		ug/l	400	--	40
Anthracene	ND		ug/l	400	--	40
Fluoranthene	ND		ug/l	400	--	40
Pyrene	ND		ug/l	400	--	40
Benzo(a)anthracene	ND		ug/l	400	--	40
Chrysene	ND		ug/l	400	--	40
Benzo(b)fluoranthene	ND		ug/l	400	--	40
Benzo(k)fluoranthene	ND		ug/l	400	--	40
Benzo(a)pyrene	ND		ug/l	400	--	40
Indeno(1,2,3-cd)Pyrene	ND		ug/l	400	--	40
Dibenzo(a,h)anthracene	ND		ug/l	400	--	40
Benzo(ghi)perylene	ND		ug/l	400	--	40

Project Name: HAFFNER'S-284 WINTER ST. **Lab Number:** L1510372

Project Number: 08-36060B **Report Date:** 05/21/15

SAMPLE RESULTS

Lab ID:	L1510372-07 D	Date Collected:	05/12/15 16:30
Client ID:	MW-1-20150512	Date Received:	05/13/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	**0**	Q	40-140
o-Terphenyl	**0**	Q	40-140
2-Fluorobiphenyl	61		40-140
2-Bromonaphthalene	65		40-140

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1510372
Report Date: 05/21/15

SAMPLE RESULTS

Lab ID:	L1510372-08	Date Collected:	05/12/15 17:25
Client ID:	EB-20150512	Date Received:	05/13/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	05/19/15 19:08		
Analyst:	BS		

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		ug/l	50.0	--	1
C9-C12 Aliphatics	ND		ug/l	50.0	--	1
C9-C10 Aromatics	ND		ug/l	50.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0	--	1
Benzene	ND		ug/l	2.00	--	1
Toluene	ND		ug/l	2.00	--	1
Ethylbenzene	ND		ug/l	2.00	--	1
p/m-Xylene	ND		ug/l	2.00	--	1
o-Xylene	ND		ug/l	2.00	--	1
Methyl tert butyl ether	ND		ug/l	3.00	--	1
Naphthalene	ND		ug/l	4.00	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	102		70-130
2,5-Dibromotoluene-FID	110		70-130

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1510372
Report Date: 05/21/15

SAMPLE RESULTS

Lab ID:	L1510372-08	Date Collected:	05/12/15 17:25
Client ID:	EB-20150512	Date Received:	05/13/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	98,EPH-04-1.1	Extraction Date:	05/15/15 21:06
Analytical Date:	05/20/15 23:25	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	05/19/15

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		ug/l	100	--	1
C19-C36 Aliphatics	ND		ug/l	100	--	1
C11-C22 Aromatics	ND		ug/l	100	--	1
C11-C22 Aromatics, Adjusted	ND		ug/l	100	--	1
Naphthalene	ND		ug/l	10.0	--	1
2-Methylnaphthalene	ND		ug/l	10.0	--	1
Acenaphthylene	ND		ug/l	10.0	--	1
Acenaphthene	ND		ug/l	10.0	--	1
Fluorene	ND		ug/l	10.0	--	1
Phenanthrene	ND		ug/l	10.0	--	1
Anthracene	ND		ug/l	10.0	--	1
Fluoranthene	ND		ug/l	10.0	--	1
Pyrene	ND		ug/l	10.0	--	1
Benzo(a)anthracene	ND		ug/l	10.0	--	1
Chrysene	ND		ug/l	10.0	--	1
Benzo(b)fluoranthene	ND		ug/l	10.0	--	1
Benzo(k)fluoranthene	ND		ug/l	10.0	--	1
Benzo(a)pyrene	ND		ug/l	10.0	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	10.0	--	1
Dibenzo(a,h)anthracene	ND		ug/l	10.0	--	1
Benzo(ghi)perylene	ND		ug/l	10.0	--	1

Project Name: HAFFNER'S-284 WINTER ST. **Lab Number:** L1510372

Project Number: 08-36060B **Report Date:** 05/21/15

SAMPLE RESULTS

Lab ID:	L1510372-08	Date Collected:	05/12/15 17:25
Client ID:	EB-20150512	Date Received:	05/13/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	65		40-140
o-Terphenyl	61		40-140
2-Fluorobiphenyl	60		40-140
2-Bromonaphthalene	63		40-140

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1510372
Report Date: 05/21/15

SAMPLE RESULTS

Lab ID:	L1510372-09	Date Collected:	05/08/15 00:00
Client ID:	TB-20150512	Date Received:	05/13/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	05/19/15 18:27		
Analyst:	BS		

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		ug/l	50.0	--	1
C9-C12 Aliphatics	ND		ug/l	50.0	--	1
C9-C10 Aromatics	ND		ug/l	50.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0	--	1
Benzene	ND		ug/l	2.00	--	1
Toluene	ND		ug/l	2.00	--	1
Ethylbenzene	ND		ug/l	2.00	--	1
p/m-Xylene	ND		ug/l	2.00	--	1
o-Xylene	ND		ug/l	2.00	--	1
Methyl tert butyl ether	ND		ug/l	3.00	--	1
Naphthalene	ND		ug/l	4.00	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	99		70-130
2,5-Dibromotoluene-FID	105		70-130

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1510372
Report Date: 05/21/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 98,EPH-04-1.1
Analytical Date: 05/21/15 09:49
Analyst: SR

Extraction Method: EPA 3510C
Extraction Date: 05/15/15 21:06
Cleanup Method: EPH-04-1
Cleanup Date: 05/16/15

Parameter	Result	Qualifier	Units	RL	MDL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 01-08 Batch: WG785493-1					
C9-C18 Aliphatics	ND		ug/l	100	--
C19-C36 Aliphatics	ND		ug/l	100	--
C11-C22 Aromatics	ND		ug/l	100	--
C11-C22 Aromatics, Adjusted	ND		ug/l	100	--
Naphthalene	ND		ug/l	10.0	--
2-Methylnaphthalene	ND		ug/l	10.0	--
Acenaphthylene	ND		ug/l	10.0	--
Acenaphthene	ND		ug/l	10.0	--
Fluorene	ND		ug/l	10.0	--
Phenanthrene	ND		ug/l	10.0	--
Anthracene	ND		ug/l	10.0	--
Fluoranthene	ND		ug/l	10.0	--
Pyrene	ND		ug/l	10.0	--
Benzo(a)anthracene	ND		ug/l	10.0	--
Chrysene	ND		ug/l	10.0	--
Benzo(b)fluoranthene	ND		ug/l	10.0	--
Benzo(k)fluoranthene	ND		ug/l	10.0	--
Benzo(a)pyrene	ND		ug/l	10.0	--
Indeno(1,2,3-cd)Pyrene	ND		ug/l	10.0	--
Dibenzo(a,h)anthracene	ND		ug/l	10.0	--
Benzo(ghi)perylene	ND		ug/l	10.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	57		40-140
o-Terphenyl	51		40-140
2-Fluorobiphenyl	56		40-140
2-Bromonaphthalene	58		40-140

Project Name: HAFFNER'S-284 WINTER ST. **Lab Number:** L1510372

Project Number: 08-36060B **Report Date:** 05/21/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 100,VPH-04-1.1
Analytical Date: 05/19/15 10:58
Analyst: BS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Petroleum Hydrocarbons - Westborough Lab for sample(s): 01-09 Batch: WG786572-3					
C5-C8 Aliphatics	ND		ug/l	50.0	--
C9-C12 Aliphatics	ND		ug/l	50.0	--
C9-C10 Aromatics	ND		ug/l	50.0	--
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0	--
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0	--
Benzene	ND		ug/l	2.00	--
Toluene	ND		ug/l	2.00	--
Ethylbenzene	ND		ug/l	2.00	--
p/m-Xylene	ND		ug/l	2.00	--
o-Xylene	ND		ug/l	2.00	--
Methyl tert butyl ether	ND		ug/l	3.00	--
Naphthalene	ND		ug/l	4.00	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	106		70-130
2,5-Dibromotoluene-FID	112		70-130

Project Name: HAFFNER'S-284 WINTER ST. **Lab Number:** L1510372

Project Number: 08-36060B **Report Date:** 05/21/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 100,VPH-04-1.1
Analytical Date: 05/20/15 11:00
Analyst: BS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Petroleum Hydrocarbons - Westborough Lab for sample(s): 02 Batch: WG786572-8					
C5-C8 Aliphatics	ND		ug/l	50.0	--
C9-C12 Aliphatics	ND		ug/l	50.0	--
C9-C10 Aromatics	ND		ug/l	50.0	--
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0	--
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0	--
Benzene	ND		ug/l	2.00	--
Toluene	ND		ug/l	2.00	--
Ethylbenzene	ND		ug/l	2.00	--
p/m-Xylene	ND		ug/l	2.00	--
o-Xylene	ND		ug/l	2.00	--
Methyl tert butyl ether	ND		ug/l	3.00	--
Naphthalene	ND		ug/l	4.00	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	107		70-130
2,5-Dibromotoluene-FID	116		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1510372
Report Date: 05/21/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-08 Batch: WG785493-2 WG785493-3								
C9-C18 Aliphatics	71		58		40-140	20		25
C19-C36 Aliphatics	85		73		40-140	15		25
C11-C22 Aromatics	79		69		40-140	14		25
Naphthalene	53		50		40-140	6		25
2-Methylnaphthalene	61		57		40-140	7		25
Acenaphthylene	60		53		40-140	12		25
Acenaphthene	65		59		40-140	10		25
Fluorene	71		64		40-140	10		25
Phenanthrene	75		67		40-140	11		25
Anthracene	83		73		40-140	13		25
Fluoranthene	78		68		40-140	14		25
Pyrene	79		69		40-140	14		25
Benzo(a)anthracene	76		65		40-140	16		25
Chrysene	80		70		40-140	13		25
Benzo(b)fluoranthene	82		73		40-140	12		25
Benzo(k)fluoranthene	76		66		40-140	14		25
Benzo(a)pyrene	81		67		40-140	19		25
Indeno(1,2,3-cd)Pyrene	65		56		40-140	15		25
Dibenzo(a,h)anthracene	75		65		40-140	14		25
Benzo(ghi)perylene	78		67		40-140	15		25
Nonane (C9)	36		32		30-140	12		25

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1510372
Report Date: 05/21/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-08 Batch: WG785493-2 WG785493-3								
Decane (C10)	48		44		40-140	9		25
Dodecane (C12)	60		54		40-140	11		25
Tetradecane (C14)	68		61		40-140	11		25
Hexadecane (C16)	74		65		40-140	13		25
Octadecane (C18)	76		67		40-140	13		25
Nonadecane (C19)	77		67		40-140	14		25
Eicosane (C20)	77		68		40-140	12		25
Docosane (C22)	79		68		40-140	15		25
Tetracosane (C24)	80		69		40-140	15		25
Hexacosane (C26)	80		70		40-140	13		25
Octacosane (C28)	80		70		40-140	13		25
Triacontane (C30)	82		71		40-140	14		25
Hexatriacontane (C36)	82		71		40-140	14		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	77		63		40-140
o-Terphenyl	76		66		40-140
2-Fluorobiphenyl	70		62		40-140
2-Bromonaphthalene	75		66		40-140
% Naphthalene Breakthrough	0		0		
% 2-Methylnaphthalene Breakthrough	0		0		

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1510372
Report Date: 05/21/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-09 Batch: WG786572-1 WG786572-2								
C5-C8 Aliphatics	98		90		70-130	9		25
C9-C12 Aliphatics	97		86		70-130	12		25
C9-C10 Aromatics	90		86		70-130	5		25
Benzene	96		92		70-130	5		25
Toluene	95		90		70-130	5		25
Ethylbenzene	97		92		70-130	6		25
p/m-Xylene	94		89		70-130	5		25
o-Xylene	93		89		70-130	5		25
Methyl tert butyl ether	98		95		70-130	3		25
Naphthalene	95		95		70-130	0		25
1,2,4-Trimethylbenzene	90		86		70-130	5		25
Pentane	97		89		70-130	9		25
2-Methylpentane	99		92		70-130	8		25
2,2,4-Trimethylpentane	101		92		70-130	10		25
n-Nonane	102		91		30-130	11		25
n-Decane	88		78		70-130	12		25
n-Butylcyclohexane	100		89		70-130	11		25

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1510372
Report Date: 05/21/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-09 Batch: WG786572-1 WG786572-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,5-Dibromotoluene-PID	92		88		70-130
2,5-Dibromotoluene-FID	97		93		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1510372
Report Date: 05/21/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 02 Batch: WG786572-6 WG786572-7								
C5-C8 Aliphatics	99		93		70-130	7		25
C9-C12 Aliphatics	98		91		70-130	7		25
C9-C10 Aromatics	89		87		70-130	3		25
Benzene	97		93		70-130	5		25
Toluene	96		92		70-130	4		25
Ethylbenzene	97		93		70-130	4		25
p/m-Xylene	95		91		70-130	4		25
o-Xylene	95		92		70-130	3		25
Methyl tert butyl ether	98		97		70-130	1		25
Naphthalene	101		100		70-130	1		25
1,2,4-Trimethylbenzene	89		87		70-130	3		25
Pentane	94		88		70-130	7		25
2-Methylpentane	101		94		70-130	7		25
2,2,4-Trimethylpentane	101		95		70-130	6		25
n-Nonane	103		97		30-130	7		25
n-Decane	87		80		70-130	9		25
n-Butylcyclohexane	101		95		70-130	6		25

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1510372
Report Date: 05/21/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 02 Batch: WG786572-6 WG786572-7								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,5-Dibromotoluene-PID	94		92		70-130
2,5-Dibromotoluene-FID	100		98		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1510372
Report Date: 05/21/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG786572-4 WG786572-5 QC Sample: L1510372-01 Client ID: ENV-8MW-20150512												
C5-C8 Aliphatics	6600	4800	11400	101		11700	106		70-130	3		50
C9-C12 Aliphatics	25200	6400	35100	**155**	Q	35100	**154**	Q	70-130	0		50
C9-C10 Aromatics	2900	2400	3760	**36**	Q	3840	**39**	Q	70-130	2		50
Benzene	4010	800	4680	83		4710	87		70-130	1		50
Toluene	50.9	800	852	100		849	100		70-130	0		50
Ethylbenzene	3530	800	4110	73		4140	76		70-130	1		50
p/m-Xylene	2700	1600	4080	86		4110	88		70-130	1		50
o-Xylene	1380	800	2080	88		2080	88		70-130	0		50
Methyl tert butyl ether	ND	800	812	102		816	102		70-130	0		50
Naphthalene	3180	800	3850	84		4050	109		70-130	5		50
1,2,4-Trimethylbenzene	ND	800	1030	91		1030	91		70-130	0		50
Pentane	ND	800	754	94		781	98		70-130	4		50
2-Methylpentane	ND	800	777	97		794	99		70-130	2		50
2,2,4-Trimethylpentane	ND	800	787	98		792	99		70-130	1		50
n-Nonane	ND	800	774	97		766	96		30-130	1		50
n-Decane	ND	800	728	91		690	86		70-130	5		50
n-Butylcyclohexane	ND	800	858	107		847	106		70-130	1		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,5-Dibromotoluene-FID	107		109		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1510372
Report Date: 05/21/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG786572-4 WG786572-5 QC Sample: L1510372-01 Client ID: ENV-8MW-20150512												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	100		103		70-130

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1510372
Report Date: 05/21/15

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information	Custody Seal
Cooler	
A	Absent
B	Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1510372-01A	Vial HCl preserved	A	N/A	2.9	Y	Absent	VPH-DELUX-10(14)
L1510372-01A1	Vial HCl preserved	A	N/A	2.9	Y	Absent	VPH-DELUX-10(14)
L1510372-01A2	Vial HCl preserved	A	N/A	2.9	Y	Absent	VPH-DELUX-10(14)
L1510372-01B	Vial HCl preserved	A	N/A	2.9	Y	Absent	VPH-DELUX-10(14)
L1510372-01B1	Vial HCl preserved	A	N/A	2.9	Y	Absent	VPH-DELUX-10(14)
L1510372-01B2	Vial HCl preserved	A	N/A	2.9	Y	Absent	VPH-DELUX-10(14)
L1510372-01C	Vial HCl preserved	A	N/A	2.9	Y	Absent	VPH-DELUX-10(14)
L1510372-01C1	Vial HCl preserved	A	N/A	2.9	Y	Absent	VPH-DELUX-10(14)
L1510372-01C2	Vial HCl preserved	A	N/A	2.9	Y	Absent	VPH-DELUX-10(14)
L1510372-01D	Amber 1000ml HCl preserved	B	<2	3.7	Y	Absent	EPH-DELUX-10(14)
L1510372-01D1	Amber 1000ml HCl preserved	B	<2	3.7	Y	Absent	EPH-DELUX-10(14)
L1510372-01D2	Amber 1000ml HCl preserved	B	<2	3.7	Y	Absent	EPH-DELUX-10(14)
L1510372-01E	Amber 1000ml HCl preserved	B	<2	3.7	Y	Absent	EPH-DELUX-10(14)
L1510372-01E1	Amber 1000ml HCl preserved	B	<2	3.7	Y	Absent	EPH-DELUX-10(14)
L1510372-01E2	Amber 1000ml HCl preserved	B	<2	3.7	Y	Absent	EPH-DELUX-10(14)
L1510372-02A	Vial HCl preserved	A	N/A	2.9	Y	Absent	VPH-DELUX-10(14)
L1510372-02B	Vial HCl preserved	A	N/A	2.9	Y	Absent	VPH-DELUX-10(14)
L1510372-02C	Vial HCl preserved	A	N/A	2.9	Y	Absent	VPH-DELUX-10(14)
L1510372-02D	Amber 1000ml HCl preserved	B	<2	3.7	Y	Absent	EPH-DELUX-10(14)
L1510372-02E	Amber 1000ml HCl preserved	B	<2	3.7	Y	Absent	EPH-DELUX-10(14)
L1510372-03A	Vial HCl preserved	A	N/A	2.9	Y	Absent	VPH-DELUX-10(14)
L1510372-03B	Vial HCl preserved	A	N/A	2.9	Y	Absent	VPH-DELUX-10(14)
L1510372-03C	Vial HCl preserved	A	N/A	2.9	Y	Absent	VPH-DELUX-10(14)
L1510372-03D	Amber 1000ml HCl preserved	B	<2	3.7	Y	Absent	EPH-DELUX-10(14)
L1510372-03E	Amber 1000ml HCl preserved	B	<2	3.7	Y	Absent	EPH-DELUX-10(14)
L1510372-04A	Vial HCl preserved	A	N/A	2.9	Y	Absent	VPH-DELUX-10(14)

*Values in parentheses indicate holding time in days

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1510372
Report Date: 05/21/15

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1510372-04B	Vial HCl preserved	A	N/A	2.9	Y	Absent	VPH-DELUX-10(14)
L1510372-04C	Vial HCl preserved	A	N/A	2.9	Y	Absent	VPH-DELUX-10(14)
L1510372-04D	Amber 1000ml HCl preserved	B	<2	3.7	Y	Absent	EPH-DELUX-10(14)
L1510372-04E	Amber 1000ml HCl preserved	B	<2	3.7	Y	Absent	EPH-DELUX-10(14)
L1510372-05A	Vial HCl preserved	A	N/A	2.9	Y	Absent	VPH-DELUX-10(14)
L1510372-05B	Vial HCl preserved	A	N/A	2.9	Y	Absent	VPH-DELUX-10(14)
L1510372-05C	Vial HCl preserved	A	N/A	2.9	Y	Absent	VPH-DELUX-10(14)
L1510372-05D	Amber 1000ml HCl preserved	A	<2	2.9	Y	Absent	EPH-DELUX-10(14)
L1510372-05E	Amber 1000ml HCl preserved	A	<2	2.9	Y	Absent	EPH-DELUX-10(14)
L1510372-06A	Vial HCl preserved	A	N/A	2.9	Y	Absent	VPH-DELUX-10(14)
L1510372-06B	Vial HCl preserved	A	N/A	2.9	Y	Absent	VPH-DELUX-10(14)
L1510372-06C	Vial HCl preserved	A	N/A	2.9	Y	Absent	VPH-DELUX-10(14)
L1510372-06D	Amber 1000ml HCl preserved	B	<2	3.7	Y	Absent	EPH-DELUX-10(14)
L1510372-06E	Amber 1000ml HCl preserved	B	<2	3.7	Y	Absent	EPH-DELUX-10(14)
L1510372-07A	Vial HCl preserved	A	N/A	2.9	Y	Absent	VPH-DELUX-10(14)
L1510372-07B	Vial HCl preserved	A	N/A	2.9	Y	Absent	VPH-DELUX-10(14)
L1510372-07C	Vial HCl preserved	A	N/A	2.9	Y	Absent	VPH-DELUX-10(14)
L1510372-07D	Amber 1000ml HCl preserved	B	<2	3.7	Y	Absent	EPH-DELUX-10(14)
L1510372-07E	Amber 1000ml HCl preserved	B	<2	3.7	Y	Absent	EPH-DELUX-10(14)
L1510372-08A	Vial HCl preserved	A	N/A	2.9	Y	Absent	VPH-DELUX-10(14)
L1510372-08B	Vial HCl preserved	A	N/A	2.9	Y	Absent	VPH-DELUX-10(14)
L1510372-08C	Vial HCl preserved	A	N/A	2.9	Y	Absent	VPH-DELUX-10(14)
L1510372-08D	Amber 1000ml HCl preserved	A	<2	2.9	Y	Absent	EPH-DELUX-10(14)
L1510372-08E	Amber 1000ml HCl preserved	A	<2	2.9	Y	Absent	EPH-DELUX-10(14)
L1510372-09A	Vial HCl preserved	A	N/A	2.9	Y	Absent	VPH-DELUX-10(14)
L1510372-09B	Vial HCl preserved	A	N/A	2.9	Y	Absent	VPH-DELUX-10(14)

*Values in parentheses indicate holding time in days

Project Name:	HAFFNER'S-284 WINTER ST.	**Lab Number:**	L1510372
Project Number:	08-36060B	**Report Date:**	05/21/15

GLOSSARY

Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

Report Format: Data Usability Report

Project Name:	HAFFNER'S-284 WINTER ST.	**Lab Number:**	L1510372
Project Number:	08-36060B	**Report Date:**	05/21/15

Data Qualifiers

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name:	HAFFNER'S-284 WINTER ST.	**Lab Number:**	L1510372
Project Number:	08-36060B	**Report Date:**	05/21/15

REFERENCES

98 Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), MassDEP, May 2004, Revision 1.1 with QC Requirements & Performance Standards for the Analysis of EPH under the Massachusetts Contingency Plan, WSC-CAM-IVB, July 2010.

100 Method for the Determination of Volatile Petroleum Hydrocarbons (VPH), MassDEP, May 2004, Revision 1.1 with QC Requirements & Performance Standards for the Analysis of VPH under the Massachusetts Contingency Plan, WSC-CAM-IVA, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised December 16, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA 2540D: TSS
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL
World Class Chemistry
8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Date Rec'd In Lab: 5/13/15

ALPHA Job #: L1510372

Project Information

Project Name: Haffner's-284 Winter St.
Project Location: Haverhill, MA
Project #: 08-36060B
Project Manager: John Noble
ALPHA Quote #: Q015090

Report Information - Data Deliverables

☑ ADEx ☑ EMAIL

Billing Information

☑ Same as Client info PO #:

Client Information

Client: Ramboll ENVIRON
Address: 3 Carlisle Rd, Suite 210, Westford, MA 01886
Phone: 603-703-5534
Email: jnoble@environcorp.com

Regulatory Requirements & Project Information Requirements

☑ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☑ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☑ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program _____ Criteria _____

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due:

Additional Project Information:

In accordance with Master Service Agreement dated 11/15/13

ANALYSIS: VOC: ☐ 8260 ☐ 624 ☐ 524.2; SVOC: ☐ ABN ☐ PAH; METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15; METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13; EPH: ☒ Ranges & Targets ☐ Ranges Only; VPH: ☒ Ranges & Targets ☐ Ranges Only; ☐ PCB ☐ PEST; TPH: ☐ Quant Only ☐ Fingerprint

SAMPLE INFO: Filtration ☐ Field ☐ Lab to do; Preservation ☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	VOC	SVOC	METALS	METALS	EPH	VPH	PCB	TPH							Sample Comments	TOTAL # BOTTLES
10372 01	ENV-8MW-20150512	5/12/15	1025	GW	RS					X	X									MS/MSD Sample	15
02	ENV-5MW-20150512	5/12/15	1030	GW	MSC					X	X										5
03	DUP-20150512	5/12/15	1100	GW	MSC					X	X										5
04	ENV-1MW-20150512	5/12/15	1335	GW	MSC					X	X										5
05	MW-3-20150512	5/12/15	1430	GW	RS					X	X										5
06	MW-2-20150512	5/12/15	1558	GW	MSC					X	X										5
07	MW-1-20150512	5/12/15	1630	GW	RS					X	X										5
08	EB-20150512	5/12/15	1725	X1	RS/MS					X	X									X1 = lab-provided water	5
09	TB-20150512	5/8/15			JW						X										2
					Container Type					A	V										
					Preservative					B	B										

Container Type: P= Plastic, A= Amber glass, V= Vial, G= Glass, B= Bacteria cup, C= Cube, O= Other, E= Encore, D= BOD Bottle

Preservative: A= None, B= HCl, C= HNO_3, D= H_2SO_4, E= NaOH, F= MeOH, G= $NaHSO_4$, H = $Na_2S_2O_3$, I= Ascorbic Acid, J = NH_4Cl, K= Zn Acetate, O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	5/13/15 1410	[signature] AL	5/13/15 1410
[signature]	5/13/15 1605	[signature]	5/13/15 1605

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

ANALYTICAL REPORT

Lab Number:	L1512919
Client:	Environ 3 Carlisle Rd Suite 210 Westford, MA 01450
ATTN:	John Noble
Phone:	(978) 449-0300
Project Name:	HAFFNER
Project Number:	0836060B
Report Date:	06/30/15

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

Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), ME (MA00030), PA (68-02089), VA (460194), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), USFWS (Permit #LE2069641), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: HAFFNER
Project Number: 0836060B

Lab Number: L1512919
Report Date: 06/30/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1512919-01	TAR	OIL	HAVERHILL, MA	06/10/15 08:40	06/10/15
L1512919-02	LNAPL-RIVER	OIL	HAVERHILL, MA	06/10/15 08:40	06/10/15

Project Name: HAFFNER
Project Number: 0836060B

Lab Number: L1512919
Report Date: 06/30/15

Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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

Please contact Client Services at 800-624-9220 with any questions.

Project Name: HAFFNER **Lab Number:** L1512919
Project Number: 0836060B **Report Date:** 06/30/15

Case Narrative (continued)

Report Submission
All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics
Sample L1512919-02 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

Sample L1512919-02 was re-analyzed at dilution in order to quantify the sample within the calibration range. The result should be considered estimated, and are qualified with an E flag, for any compound that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

Alkylated PAH's
Samples L1512919-01D and -02D were re-analyzed at dilution in order to quantify the sample within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

Samaples L1512919-01D and -02D have elevated detection limits due to the dilution required by the sample matrix.

Petroleum Hydrocarbon Quantitation
Concentrations for compounds flagged with "G" qualifiers may be biased high due to matrix interference included in the quantitation.

The surrogate recovery for d50-Tetracosane in sample L1512919-01 was above the 130% acceptance limit at 132% due to matrix interference. The surrogate ortho-Terphenyl was recovered within QC limits

Project Name: HAFFNER **Lab Number:** L1512919
Project Number: 0836060B **Report Date:** 06/30/15

Case Narrative (continued)

demonstrating efficiency of the extraction; therefore no additional corrective action was taken.

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

Authorized Signature: Elizabeth Porta

Title: Technical Director/Representative Date: 06/30/15

ORGANICS

VOLATILES

Project Name: HAFFNER **Lab Number:** L1512919

Project Number: 0836060B **Report Date:** 06/30/15

SAMPLE RESULTS

Lab ID:	L1512919-02	D2	Date Collected:	06/10/15 08:40
Client ID:	LNAPL-RIVER		Date Received:	06/10/15
Sample Location:	HAVERHILL, MA		Field Prep:	Not Specified
Matrix:	Oil			
Analytical Method:	1,8260B			
Analytical Date:	06/24/15 00:21			
Analyst:	MR			
Percent Solids:	Results reported on an 'AS RECEIVED' basis.			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by GC/MS - Mansfield Lab						
2-Methylnaphthalene	11000		mg/kg	4040	1070	200

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	110		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130

Project Name: HAFFNER **Lab Number:** L1512919

Project Number: 0836060B **Report Date:** 06/30/15

SAMPLE RESULTS

Lab ID:	L1512919-02	D	Date Collected:	06/10/15 08:40
Client ID:	LNAPL-RIVER		Date Received:	06/10/15
Sample Location:	HAVERHILL, MA		Field Prep:	Not Specified
Matrix:	Oil			
Analytical Method:	1,8260B			
Analytical Date:	06/24/15 01:37			
Analyst:	MR			
Percent Solids:	Results reported on an 'AS RECEIVED' basis.			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by GC/MS - Mansfield Lab						
3-Methyl-1-butene	ND		mg/kg	80.9	12.0	10
Isopentane	ND		mg/kg	80.9	14.8	10
1-Pentene	ND		mg/kg	80.9	14.8	10
2-Methyl-1-Butene	ND		mg/kg	80.9	12.6	10
Pentane	ND		mg/kg	80.9	25.2	10
trans-2-Pentene	ND		mg/kg	80.9	10.9	10
Isoprene	ND		mg/kg	80.9	14.4	10
cis-2-Pentene	ND		mg/kg	80.9	13.0	10
Tertiary Butanol	ND		mg/kg	1010	131.	10
2,2-Dimethylbutane	ND		mg/kg	80.9	25.0	10
4-Methyl-1-pentene	ND		mg/kg	80.9	12.6	10
Cyclopentane	ND		mg/kg	80.9	21.0	10
2,3-Dimethylbutane	ND		mg/kg	80.9	33.4	10
2-Methylpentane	ND		mg/kg	80.9	21.9	10
Methyl tert butyl ether	ND		mg/kg	80.9	16.7	10
3-Methylpentane	ND		mg/kg	80.9	12.8	10
1-Hexene	ND		mg/kg	80.9	11.4	10
n-Hexane	ND		mg/kg	80.9	13.3	10
Isopropyl Ether	ND		mg/kg	80.9	9.79	10
trans-2-Hexene	ND		mg/kg	80.9	10.6	10
2-Methyl-2-pentene	ND		mg/kg	80.9	12.4	10
cis-2-Hexene	ND		mg/kg	80.9	11.0	10
Ethyl-Tert-Butyl-Ether	ND		mg/kg	80.9	12.2	10
2,2-Dimethylpentane	ND		mg/kg	80.9	10.9	10
Methylcyclopentane	ND		mg/kg	80.9	10.8	10
2,4-Dimethylpentane	ND		mg/kg	80.9	9.99	10
2,2,3-Trimethylbutane	ND		mg/kg	80.9	10.9	10
1,2-Dichloroethane	ND		mg/kg	80.9	11.9	10
3,3-Dimethylpentane	ND		mg/kg	80.9	15.0	10
Cyclohexane	ND		mg/kg	80.9	9.99	10

Project Name: HAFFNER **Lab Number:** L1512919

Project Number: 0836060B **Report Date:** 06/30/15

SAMPLE RESULTS

Lab ID: L1512919-02 D Date Collected: 06/10/15 08:40

Client ID: LNAPL-RIVER Date Received: 06/10/15

Sample Location: HAVERHILL, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by GC/MS - Mansfield Lab						
2-Methylhexane	ND		mg/kg	80.9	12.7	10
Benzene	39.4	J	mg/kg	80.9	12.3	10
2,3-Dimethylpentane	ND		mg/kg	80.9	10.7	10
Thiophene	ND		mg/kg	80.9	11.5	10
1,1-Dimethylcyclopentane	ND		mg/kg	80.9	9.71	10
3-Methylhexane	ND		mg/kg	80.9	12.9	10
Tertiary-Amyl Methyl Ether	ND		mg/kg	80.9	9.95	10
1,3-Dimethylcyclopentane (cis)	ND		mg/kg	80.9	12.2	10
3-Ethylpentane	ND		mg/kg	80.9	11.7	10
1,3-DMCP (trans)/2-Methyl-1-hexene	ND		mg/kg	162	28.4	10
1-Heptene/1,2-DMCP (trans)	ND		mg/kg	162	23.7	10
Isooctane	ND		mg/kg	80.9	8.82	10
trans-3-Heptene	ND		mg/kg	80.9	12.6	10
Heptane	ND		mg/kg	80.9	14.1	10
cis-3-Heptene	ND		mg/kg	80.9	11.5	10
trans-2-Heptene	ND		mg/kg	80.9	10.4	10
cis-2-Heptene	ND		mg/kg	80.9	15.6	10
2,2-Dimethylhexane	ND		mg/kg	80.9	11.7	10
Methylcyclohexane	ND		mg/kg	80.9	10.9	10
2,5-Dimethylhexane	ND		mg/kg	80.9	14.1	10
2,4-Dimethylhexane	ND		mg/kg	80.9	9.83	10
Ethylcyclopentane	ND		mg/kg	80.9	10.7	10
2,2,3-Trimethylpentane	ND		mg/kg	80.9	14.0	10
1,2,3-Trimethylcyclopentane (ctc)	ND		mg/kg	80.9	12.3	10
2,3,4-Trimethylpentane	ND		mg/kg	80.9	10.6	10
2,3,3-Trimethylpentane	ND		mg/kg	80.9	16.0	10
2,3-Dimethylhexane	ND		mg/kg	80.9	19.6	10
2-Methylheptane	ND		mg/kg	80.9	13.7	10
4-Methylheptane	ND		mg/kg	80.9	13.9	10
3-Methylheptane	ND		mg/kg	80.9	11.5	10
3-Ethylhexane	ND		mg/kg	80.9	14.5	10
Toluene	ND		mg/kg	80.9	11.0	10
2-Methylthiophene	ND		mg/kg	80.9	6.88	10
1,4-Dimethylcyclohexane (trans)	ND		mg/kg	80.9	10.5	10
3-Methylthiophene	ND		mg/kg	80.9	9.47	10
1-Octene	ND		mg/kg	80.9	12.4	10
Octane	ND		mg/kg	80.9	9.51	10
1,2-Dimethylcyclohexane (trans)	ND		mg/kg	80.9	11.9	10
1,2-Dibromoethane	ND		mg/kg	80.9	12.9	10

Project Name: HAFFNER **Lab Number:** L1512919

Project Number: 0836060B **Report Date:** 06/30/15

SAMPLE RESULTS

Lab ID: L1512919-02 D Date Collected: 06/10/15 08:40

Client ID: LNAPL-RIVER Date Received: 06/10/15

Sample Location: HAVERHILL, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by GC/MS - Mansfield Lab						
1,2,3-TMCP (ccc)/2-Octene (trans)	ND		mg/kg	162	23.2	10
cis-2-Octene	ND		mg/kg	80.9	9.26	10
Isopropylcyclopentane	ND		mg/kg	80.9	11.8	10
1,2-Dimethylcyclohexane (cis)	ND		mg/kg	80.9	23.5	10
2,5-Dimethylheptane	ND		mg/kg	80.9	13.6	10
3,5-Dimethylheptane	ND		mg/kg	80.9	11.4	10
3,3-Dimethylheptane	ND		mg/kg	80.9	9.79	10
1,1,4-Trimethylcyclohexane	ND		mg/kg	80.9	8.05	10
2,3-Dimethylheptane	ND		mg/kg	80.9	9.22	10
3,4-Dimethylheptane	ND		mg/kg	80.9	13.8	10
4-Methyloctane	ND		mg/kg	80.9	13.5	10
2-Methyloctane	ND		mg/kg	80.9	20.7	10
Ethylbenzene	ND		mg/kg	80.9	8.74	10
2-Ethylthiophene	ND		mg/kg	80.9	7.12	10
3-Methyloctane	ND		mg/kg	80.9	9.06	10
3,3-Diethylpentane	ND		mg/kg	80.9	9.42	10
p/m-Xylene	ND		mg/kg	162	15.4	10
1-Nonene	ND		mg/kg	202	10.9	10
trans-3-Nonene	ND		mg/kg	80.9	9.59	10
cis-3-Nonene	ND		mg/kg	80.9	15.1	10
Nonane (C9)	ND		mg/kg	80.9	12.6	10
Styrene	ND		mg/kg	80.9	8.17	10
o-Xylene	15.6	J	mg/kg	80.9	8.45	10
2-Nonene	ND		mg/kg	80.9	10.3	10
Isopropylcyclohexane	ND		mg/kg	80.9	8.58	10
Isopropylbenzene	ND		mg/kg	80.9	7.56	10
3,3-Dimethyloctane	ND		mg/kg	80.9	8.17	10
n-Propylbenzene	ND		mg/kg	80.9	7.16	10
2-Methylnonane	12.2	J	mg/kg	80.9	11.4	10
3-Methylnonane	20.4	J	mg/kg	80.9	11.3	10
1-Methyl-3-Ethylbenzene	ND		mg/kg	80.9	12.8	10
1-Methyl-4-Ethylbenzene	11.5	J	mg/kg	80.9	11.4	10
1,3,5-Trimethylbenzene	31.5	J	mg/kg	80.9	9.30	10
1-Decene	ND		mg/kg	80.9	10.5	10
Isobutylcyclohexane	ND		mg/kg	80.9	6.59	10
1-Methyl-2-Ethylbenzene	31.2	J	mg/kg	80.9	6.88	10
Decane (C10)	ND		mg/kg	80.9	11.0	10
tert-Butylbenzene	ND		mg/kg	80.9	8.54	10
1,2,4-Trimethylbenzene	239		mg/kg	80.9	8.37	10

Project Name: HAFFNER **Lab Number:** L1512919

Project Number: 0836060B **Report Date:** 06/30/15

SAMPLE RESULTS

Lab ID: L1512919-02 D Date Collected: 06/10/15 08:40

Client ID: LNAPL-RIVER Date Received: 06/10/15

Sample Location: HAVERHILL, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by GC/MS - Mansfield Lab						
Isobutylbenzene	11.3	J	mg/kg	80.9	10.9	10
sec-Butylbenzene	11.6	J	mg/kg	80.9	10.5	10
1-Methyl-3-Isopropylbenzene	36.8	J	mg/kg	80.9	10.4	10
1-Methyl-4-Isopropylbenzene	33.4	J	mg/kg	80.9	8.58	10
1,2,3-Trimethylbenzene	182		mg/kg	80.9	9.02	10
1-Methyl-2-Isopropylbenzene	11.5	J	mg/kg	80.9	8.78	10
Indane	689		mg/kg	80.9	4.98	10
1,3-Diethylbenzene	91.5		mg/kg	80.9	10.1	10
1-Methyl-3-N-Propylbenzene	38.5	J	mg/kg	80.9	8.17	10
Indene	29.9	J	mg/kg	80.9	4.69	10
1-Methyl-4-N-Propylbenzene	57.8	J	mg/kg	80.9	10.1	10
n-Butylbenzene	40.4	J	mg/kg	80.9	7.97	10
1,2-Dimethyl-4-Ethylbenzene	109		mg/kg	80.9	9.91	10
1,2-Diethylbenzene	23.1	J	mg/kg	80.9	12.0	10
1-Methyl-2-N-Propylbenzene	66.5	J	mg/kg	80.9	10.1	10
1,4-Dimethyl-2-Ethylbenzene	143		mg/kg	80.9	7.56	10
Undecane	ND		mg/kg	80.9	8.98	10
1,3-Dimethyl-4-Ethylbenzene	193		mg/kg	80.9	7.85	10
1,3-Dimethyl-5-Ethylbenzene	311		mg/kg	80.9	9.55	10
1,3-Dimethyl-2-Ethylbenzene	90.3		mg/kg	80.9	6.03	10
1,2-Dimethyl-3-Ethylbenzene	123		mg/kg	80.9	5.14	10
1,2,4,5-Tetramethylbenzene	309		mg/kg	80.9	6.27	10
1,2,3,5-Tetramethylbenzene	574		mg/kg	80.9	6.15	10
N-Pentylbenzene	53.8	J	mg/kg	80.9	10.1	10
1,2,3,4-Tetramethylbenzene	449		mg/kg	80.9	8.66	10
1,3-Dimethyl-5-tert-Butylbenzene	ND		mg/kg	80.9	11.5	10
Dodecane (C12)	ND		mg/kg	80.9	26.6	10
1,3,5-Triethylbenzene	ND		mg/kg	80.9	15.4	10
Naphthalene	7630		mg/kg	80.9	33.8	10
Benzothiophene	142		mg/kg	80.9	42.8	10
1,2,4-Triethylbenzene	70.6	J	mg/kg	80.9	13.8	10
Hexylbenzene	207		mg/kg	80.9	15.6	10
MMT	ND		mg/kg	202	52.0	10
Tridecane	ND		mg/kg	202	56.4	10
2-Methylnaphthalene	9580	E	mg/kg	202	53.5	10
1-Methylnaphthalene	7470		mg/kg	202	59.4	10
Tetradecane (C14)	ND		mg/kg	202	24.8	10
Pentadecane	ND		mg/kg	202	45.1	10

Project Name: HAFFNER **Lab Number:** L1512919

Project Number: 0836060B **Report Date:** 06/30/15

SAMPLE RESULTS

Lab ID: L1512919-02 D Date Collected: 06/10/15 08:40

Client ID: LNAPL-RIVER Date Received: 06/10/15

Sample Location: HAVERHILL, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by GC/MS - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	109		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130

Project Name: HAFFNER
Project Number: 0836060B

Lab Number: L1512919
Report Date: 06/30/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 06/23/15 13:55
Analyst: MR

Parameter	Result	Qualifier	Units	RL	MDL
PIANO Volatile Organics by GC/MS - Mansfield Lab for sample(s): 02 Batch: WG796625-6					
3-Methyl-1-butene	ND		mg/kg	10.0	1.48
Isopentane	ND		mg/kg	10.0	1.83
1-Pentene	ND		mg/kg	10.0	1.82
2-Methyl-1-Butene	ND		mg/kg	10.0	1.56
Pentane	ND		mg/kg	10.0	3.12
trans-2-Pentene	ND		mg/kg	10.0	1.35
Isoprene	ND		mg/kg	10.0	1.78
cis-2-Pentene	ND		mg/kg	10.0	1.61
Tertiary Butanol	ND		mg/kg	125	16.2
2,2-Dimethylbutane	ND		mg/kg	10.0	3.08
4-Methyl-1-pentene	ND		mg/kg	10.0	1.56
Cyclopentane	ND		mg/kg	10.0	2.60
2,3-Dimethylbutane	ND		mg/kg	10.0	4.13
2-Methylpentane	ND		mg/kg	10.0	2.71
Methyl tert butyl ether	ND		mg/kg	10.0	2.06
3-Methylpentane	ND		mg/kg	10.0	1.58
1-Hexene	ND		mg/kg	10.0	1.40
n-Hexane	ND		mg/kg	10.0	1.64
Isopropyl Ether	ND		mg/kg	10.0	1.21
trans-2-Hexene	ND		mg/kg	10.0	1.30
2-Methyl-2-pentene	ND		mg/kg	10.0	1.53
cis-2-Hexene	ND		mg/kg	10.0	1.36
Ethyl-Tert-Butyl-Ether	ND		mg/kg	10.0	1.52
2,2-Dimethylpentane	ND		mg/kg	10.0	1.34
Methylcyclopentane	ND		mg/kg	10.0	1.34
2,4-Dimethylpentane	ND		mg/kg	10.0	1.24
2,2,3-Trimethylbutane	ND		mg/kg	10.0	1.35
1,2-Dichloroethane	ND		mg/kg	10.0	1.48
3,3-Dimethylpentane	ND		mg/kg	10.0	1.86

Project Name: HAFFNER **Lab Number:** L1512919

Project Number: 0836060B **Report Date:** 06/30/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 06/23/15 13:55
Analyst: MR

Parameter	Result	Qualifier	Units	RL	MDL
PIANO Volatile Organics by GC/MS - Mansfield Lab for sample(s): 02 Batch: WG796625-6					
Cyclohexane	ND		mg/kg	10.0	1.24
2-Methylhexane	ND		mg/kg	10.0	1.58
Benzene	ND		mg/kg	10.0	1.52
2,3-Dimethylpentane	ND		mg/kg	10.0	1.32
Thiophene	ND		mg/kg	10.0	1.42
1,1-Dimethylcyclopentane	ND		mg/kg	10.0	1.20
3-Methylhexane	ND		mg/kg	10.0	1.60
Tertiary-Amyl Methyl Ether	ND		mg/kg	10.0	1.23
1,3-Dimethylcyclopentane (cis)	ND		mg/kg	10.0	1.50
3-Ethylpentane	ND		mg/kg	10.0	1.44
1,3-DMCP (trans)/2-Methyl-1-hexene	ND		mg/kg	20.0	3.51
1-Heptene/1,2-DMCP (trans)	ND		mg/kg	20.0	2.92
Isooctane	ND		mg/kg	10.0	1.09
trans-3-Heptene	ND		mg/kg	10.0	1.56
Heptane	ND		mg/kg	10.0	1.74
cis-3-Heptene	ND		mg/kg	10.0	1.42
trans-2-Heptene	ND		mg/kg	10.0	1.28
cis-2-Heptene	ND		mg/kg	10.0	1.94
2,2-Dimethylhexane	ND		mg/kg	10.0	1.45
Methylcyclohexane	ND		mg/kg	10.0	1.35
2,5-Dimethylhexane	ND		mg/kg	10.0	1.74
2,4-Dimethylhexane	ND		mg/kg	10.0	1.22
Ethylcyclopentane	ND		mg/kg	10.0	1.32
2,2,3-Trimethylpentane	ND		mg/kg	10.0	1.74
1,2,3-Trimethylcyclopentane (ctc)	ND		mg/kg	10.0	1.52
2,3,4-Trimethylpentane	ND		mg/kg	10.0	1.30
2,3,3-Trimethylpentane	ND		mg/kg	10.0	1.98
2,3-Dimethylhexane	ND		mg/kg	10.0	2.42
2-Methylheptane	ND		mg/kg	10.0	1.69

Project Name: HAFFNER **Lab Number:** L1512919

Project Number: 0836060B **Report Date:** 06/30/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 06/23/15 13:55
Analyst: MR

Parameter	Result	Qualifier	Units	RL	MDL
PIANO Volatile Organics by GC/MS - Mansfield Lab for sample(s): 02 Batch: WG796625-6					
4-Methylheptane	ND		mg/kg	10.0	1.72
3-Methylheptane	ND		mg/kg	10.0	1.42
3-Ethylhexane	ND		mg/kg	10.0	1.79
Toluene	ND		mg/kg	10.0	1.36
2-Methylthiophene	ND		mg/kg	10.0	0.850
1,4-Dimethylcyclohexane (trans)	ND		mg/kg	10.0	1.30
3-Methylthiophene	ND		mg/kg	10.0	1.17
1-Octene	ND		mg/kg	10.0	1.54
Octane	ND		mg/kg	10.0	1.18
1,2-Dimethylcyclohexane (trans)	ND		mg/kg	10.0	1.47
1,2-Dibromoethane	ND		mg/kg	10.0	1.60
1,2,3-TMCP (ccc)/2-Octene (trans)	ND		mg/kg	20.0	2.86
cis-2-Octene	ND		mg/kg	10.0	1.14
Isopropylcyclopentane	ND		mg/kg	10.0	1.46
1,2-Dimethylcyclohexane (cis)	ND		mg/kg	10.0	2.90
2,5-Dimethylheptane	ND		mg/kg	10.0	1.68
3,5-Dimethylheptane	ND		mg/kg	10.0	1.41
3,3-Dimethylheptane	ND		mg/kg	10.0	1.21
1,1,4-Trimethylcyclohexane	ND		mg/kg	10.0	0.995
2,3-Dimethylheptane	ND		mg/kg	10.0	1.14
3,4-Dimethylheptane	ND		mg/kg	10.0	1.70
4-Methyloctane	ND		mg/kg	10.0	1.67
2-Methyloctane	ND		mg/kg	10.0	2.56
Ethylbenzene	ND		mg/kg	10.0	1.08
2-Ethylthiophene	ND		mg/kg	10.0	0.880
3-Methyloctane	ND		mg/kg	10.0	1.12
3,3-Diethylpentane	ND		mg/kg	10.0	1.16
p/m-Xylene	ND		mg/kg	20.0	1.90
1-Nonene	ND		mg/kg	25.0	1.35

Project Name: HAFFNER
Project Number: 0836060B

Lab Number: L1512919
Report Date: 06/30/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 06/23/15 13:55
Analyst: MR

Parameter	Result	Qualifier	Units	RL	MDL
PIANO Volatile Organics by GC/MS - Mansfield Lab for sample(s): 02 Batch: WG796625-6					
trans-3-Nonene	ND		mg/kg	10.0	1.18
cis-3-Nonene	ND		mg/kg	10.0	1.87
Nonane (C9)	ND		mg/kg	10.0	1.56
Styrene	ND		mg/kg	10.0	1.01
o-Xylene	ND		mg/kg	10.0	1.04
2-Nonene	ND		mg/kg	10.0	1.27
Isopropylcyclohexane	ND		mg/kg	10.0	1.06
Isopropylbenzene	ND		mg/kg	10.0	0.935
3,3-Dimethyloctane	ND		mg/kg	10.0	1.01
n-Propylbenzene	ND		mg/kg	10.0	0.885
2-Methylnonane	ND		mg/kg	10.0	1.42
3-Methylnonane	ND		mg/kg	10.0	1.40
1-Methyl-3-Ethylbenzene	ND		mg/kg	10.0	1.58
1-Methyl-4-Ethylbenzene	ND		mg/kg	10.0	1.41
1,3,5-Trimethylbenzene	ND		mg/kg	10.0	1.15
1-Decene	ND		mg/kg	10.0	1.30
Isobutylcyclohexane	ND		mg/kg	10.0	0.815
1-Methyl-2-Ethylbenzene	ND		mg/kg	10.0	0.850
Decane (C10)	ND		mg/kg	10.0	1.36
tert-Butylbenzene	ND		mg/kg	10.0	1.06
1,2,4-Trimethylbenzene	ND		mg/kg	10.0	1.04
Isobutylbenzene	ND		mg/kg	10.0	1.35
sec-Butylbenzene	ND		mg/kg	10.0	1.30
1-Methyl-3-Isopropylbenzene	ND		mg/kg	10.0	1.29
1-Methyl-4-Isopropylbenzene	ND		mg/kg	10.0	1.06
1,2,3-Trimethylbenzene	ND		mg/kg	10.0	1.12
1-Methyl-2-Isopropylbenzene	ND		mg/kg	10.0	1.08
Indane	ND		mg/kg	10.0	0.615
1,3-Diethylbenzene	ND		mg/kg	10.0	1.24

Project Name: HAFFNER **Lab Number:** L1512919

Project Number: 0836060B **Report Date:** 06/30/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 06/23/15 13:55
Analyst: MR

Parameter	Result	Qualifier	Units	RL	MDL
PIANO Volatile Organics by GC/MS - Mansfield Lab for sample(s): 02 Batch: WG796625-6					
1-Methyl-3-N-Propylbenzene	ND		mg/kg	10.0	1.01
Indene	ND		mg/kg	10.0	0.580
1-Methyl-4-N-Propylbenzene	ND		mg/kg	10.0	1.25
n-Butylbenzene	ND		mg/kg	10.0	0.985
1,2-Dimethyl-4-Ethylbenzene	ND		mg/kg	10.0	1.22
1,2-Diethylbenzene	ND		mg/kg	10.0	1.48
1-Methyl-2-N-Propylbenzene	ND		mg/kg	10.0	1.24
1,4-Dimethyl-2-Ethylbenzene	ND		mg/kg	10.0	0.935
Undecane	ND		mg/kg	10.0	1.11
1,3-Dimethyl-4-Ethylbenzene	ND		mg/kg	10.0	0.970
1,3-Dimethyl-5-Ethylbenzene	ND		mg/kg	10.0	1.18
1,3-Dimethyl-2-Ethylbenzene	ND		mg/kg	10.0	0.745
1,2-Dimethyl-3-Ethylbenzene	ND		mg/kg	10.0	0.635
1,2,4,5-Tetramethylbenzene	ND		mg/kg	10.0	0.775
1,2,3,5-Tetramethylbenzene	ND		mg/kg	10.0	0.760
N-Pentylbenzene	ND		mg/kg	10.0	1.24
1,2,3,4-Tetramethylbenzene	ND		mg/kg	10.0	1.07
1,3-Dimethyl-5-tert-Butylbenzene	ND		mg/kg	10.0	1.42
Dodecane (C12)	ND		mg/kg	10.0	3.28
1,3,5-Triethylbenzene	ND		mg/kg	10.0	1.90
Naphthalene	ND		mg/kg	10.0	4.18
Benzothiophene	ND		mg/kg	10.0	5.28
1,2,4-Triethylbenzene	ND		mg/kg	10.0	1.70
Hexylbenzene	ND		mg/kg	10.0	1.92
MMT	ND		mg/kg	25.0	6.43
Tridecane	ND		mg/kg	25.0	6.96
2-Methylnaphthalene	ND		mg/kg	25.0	6.61
1-Methylnaphthalene	ND		mg/kg	25.0	7.34
Tetradecane (C14)	ND		mg/kg	25.0	3.06

Project Name: HAFFNER
Project Number: 0836060B

Lab Number: L1512919
Report Date: 06/30/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 06/23/15 13:55
Analyst: MR

Parameter	Result	Qualifier	Units	RL	MDL
PIANO Volatile Organics by GC/MS - Mansfield Lab for sample(s): 02 Batch: WG796625-6					
Pentadecane	ND		mg/kg	25.0	5.58

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	119		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	99		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAFFNER
Project Number: 0836060B

Lab Number: L1512919
Report Date: 06/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PIANO Volatile Organics by GC/MS - Mansfield Lab Associated sample(s): 02 Batch: WG796625-4 WG796625-5								
1-Pentene	95		99		50-130	4		30
Pentane	84		90		50-130	7		30
Tertiary Butanol	121		119		50-130	2		30
Cyclopentane	94		98		50-130	4		30
2-Methylpentane	94		93		50-130	1		30
Methyl tert butyl ether	105		107		50-130	2		30
3-Methylpentane	96		98		50-130	2		30
1-Hexene	95		95		50-130	0		30
n-Hexane	96		96		50-130	0		30
Isopropyl Ether	94		95		50-130	1		30
Ethyl-Tert-Butyl-Ether	100		102		50-130	2		30
Methylcyclopentane	96		97		50-130	1		30
2,4-Dimethylpentane	94		97		50-130	3		30
Cyclohexane	93		96		50-130	3		30
2-Methylhexane	90		92		50-130	2		30
Benzene	97		99		50-130	2		30
2,3-Dimethylpentane	98		99		50-130	1		30
3-Methylhexane	84		85		50-130	1		30
Tertiary-Amyl Methyl Ether	96		98		50-130	2		30
Isooctane	94		94		50-130	0		30
Heptane	88		89		50-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAFFNER
Project Number: 0836060B

Lab Number: L1512919
Report Date: 06/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PIANO Volatile Organics by GC/MS - Mansfield Lab Associated sample(s): 02 Batch: WG796625-4 WG796625-5								
Methylcyclohexane	97		100		50-130	3		30
2-Methylheptane	92		91		50-130	1		30
3-Methylheptane	87		88		50-130	1		30
Toluene	99		100		50-130	1		30
Octane	89		90		50-130	1		30
Ethylbenzene	96		96		50-130	0		30
p/m-Xylene	104		103		50-130	1		30
Nonane (C9)	90		89		50-130	1		30
o-Xylene	102		100		50-130	2		30
Isopropylbenzene	102		101		50-130	1		30
n-Propylbenzene	100		99		50-130	1		30
1-Methyl-3-Ethylbenzene	103		102		50-130	1		30
1-Methyl-4-Ethylbenzene	103		104		50-130	1		30
1,3,5-Trimethylbenzene	106		107		50-130	1		30
1-Decene	108		112		50-130	4		30
1-Methyl-2-Ethylbenzene	107		108		50-130	1		30
Decane (C10)	100		104		50-130	4		30
1,2,4-Trimethylbenzene	107		107		50-130	0		30
sec-Butylbenzene	102		102		50-130	0		30
1-Methyl-4-N-Propylbenzene	104		107		50-130	3		30
n-Butylbenzene	106		106		50-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAFFNER
Project Number: 0836060B

Lab Number: L1512919
Report Date: 06/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PIANO Volatile Organics by GC/MS - Mansfield Lab Associated sample(s): 02 Batch: WG796625-4 WG796625-5								
1,2-Diethylbenzene	103		103		50-130	0		30
Undecane	111		113		50-130	2		30
N-Pentylbenzene	105		106		50-130	1		30
Dodecane (C12)	125		127		50-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Dibromofluoromethane	115		116		70-130
Toluene-d8	103		103		70-130
4-Bromofluorobenzene	101		102		70-130

SEMIVOLATILES

Project Name: HAFFNER
Project Number: 0836060B
Lab Number: L1512919
Report Date: 06/30/15

SAMPLE RESULTS

Lab ID:	L1512919-01	D2	Date Collected:	06/10/15 08:40
Client ID:	TAR		Date Received:	06/10/15
Sample Location:	HAVERHILL, MA		Field Prep:	Not Specified
Matrix:	Oil		Extraction Method:	EPA 3580A
Analytical Method:	1,8270D-SIM(M)		Extraction Date:	06/22/15 09:56
Analytical Date:	06/29/15 14:02			
Analyst:	SR			
Percent Solids:	Results reported on an 'AS RECEIVED' basis.			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Naphthalene	20500		mg/kg	23.3	6.70	8

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	91		50-130
Phenanthrene-d10	111		50-130
Benzo(a)pyrene-d12	91		50-130

Project Name: HAFFNER
Project Number: 0836060B
Lab Number: L1512919
Report Date: 06/30/15

SAMPLE RESULTS

Lab ID: L1512919-01 D
Client ID: TAR
Sample Location: HAVERHILL, MA
Matrix: Oil
Analytical Method: 1,8270D-SIM(M)
Analytical Date: 06/26/15 00:45
Analyst: SR
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Date Collected: 06/10/15 08:40
Date Received: 06/10/15
Field Prep: Not Specified
Extraction Method: EPA 3580A
Extraction Date: 06/22/15 09:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Naphthalene	9270	E	mg/kg	5.82	1.67	2
C1-Naphthalenes	6890		mg/kg	5.82	1.67	2
C2-Naphthalenes	3580		mg/kg	5.82	1.67	2
C3-Naphthalenes	1290		mg/kg	5.82	1.67	2
C4-Naphthalenes	294		mg/kg	5.82	1.67	2
2-Methylnaphthalene	6840		mg/kg	5.82	1.50	2
1-Methylnaphthalene	4690		mg/kg	5.82	1.84	2
Biphenyl	478		mg/kg	5.82	1.80	2
2,6-Dimethylnaphthalene	1950		mg/kg	5.82	1.38	2
Dibenzofuran	159		mg/kg	5.82	1.83	2
Acenaphthylene	1040		mg/kg	5.82	1.11	2
Acenaphthene	358		mg/kg	5.82	1.03	2
2,3,5-Trimethylnaphthalene	278		mg/kg	5.82	0.953	2
Fluorene	953		mg/kg	5.82	1.55	2
C1-Fluorenes	803		mg/kg	5.82	1.55	2
C2-Fluorenes	644		mg/kg	5.82	1.55	2
C3-Fluorenes	200		mg/kg	5.82	1.55	2
Dibenzothiophene	372		mg/kg	5.82	1.61	2
C1-Dibenzothiophenes BS	494		mg/kg	5.82	1.61	2
C2-Dibenzothiophenes	355		mg/kg	5.82	1.61	2
C3-Dibenzothiophenes	166		mg/kg	5.82	1.61	2
C4-Dibenzothiophenes	49.8		mg/kg	5.82	1.61	2
Phenanthrene	3280		mg/kg	5.82	1.93	2
C1-Phenanthrenes/Anthracenes	3030		mg/kg	5.82	1.93	2
C2-Phenanthrenes/Anthr BS	1270		mg/kg	5.82	1.93	2
C3-Phenanthrenes/Anthracenes	376		mg/kg	5.82	1.93	2
C4-Phenanthrenes/Anthracenes	81.5		mg/kg	5.82	1.93	2
Retene	ND		mg/kg	5.82	1.43	2
Anthracene	932		mg/kg	5.82	1.20	2
Fluoranthene	973		mg/kg	5.82	1.85	2

Project Name: HAFFNER **Lab Number:** L1512919

Project Number: 0836060B **Report Date:** 06/30/15

SAMPLE RESULTS

Lab ID: L1512919-01 D Date Collected: 06/10/15 08:40

Client ID: TAR Date Received: 06/10/15

Sample Location: HAVERHILL, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Pyrene	1410		mg/kg	5.82	1.53	2
C1-Fluoranthenes/Pyrenes	1300		mg/kg	5.82	1.53	2
C2-Fluoranthenes/Pyrenes	615		mg/kg	5.82	1.53	2
C3-Fluoranthenes/Pyrenes	260		mg/kg	5.82	1.53	2
C4-Fluoranthenes/Pyrenes	88.1		mg/kg	5.82	1.53	2
Benz(a)anthracene	547		mg/kg	5.82	1.19	2
Chrysene/Triphenylene	592		mg/kg	5.82	1.18	2
C1-Chrysenes	772		mg/kg	5.82	1.18	2
C2-Chrysenes BS	477		mg/kg	5.82	1.18	2
C3-Chrysenes	228		mg/kg	5.82	1.18	2
C4-Chrysenes	95.5		mg/kg	5.82	1.18	2
Benzo(b)fluoranthene	212		mg/kg	5.82	1.51	2
Benzo(j)+(k)fluoranthene	210		mg/kg	5.82	1.16	2
Benzo(e)pyrene	202		mg/kg	5.82	1.20	2
Benzo(a)pyrene	380		mg/kg	5.82	1.66	2
Perylene	80.2		mg/kg	5.82	1.12	2
Indeno(1,2,3-cd)pyrene	155		mg/kg	5.82	1.58	2
Dibenz(a,h)+(a,c)anthracene	52.8		mg/kg	5.82	1.57	2
Benzo(g,h,i)perylene	193		mg/kg	5.82	1.55	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	66		50-130
Phenanthrene-d10	91		50-130
Benzo(a)pyrene-d12	85		50-130

Project Name: HAFFNER
Project Number: 0836060B
Lab Number: L1512919
Report Date: 06/30/15

SAMPLE RESULTS

Lab ID: L1512919-02 D2
Client ID: LNAPL-RIVER
Sample Location: HAVERHILL, MA
Matrix: Oil
Analytical Method: 1,8270D-SIM(M)
Analytical Date: 06/29/15 15:27
Analyst: SR
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Date Collected: 06/10/15 08:40
Date Received: 06/10/15
Field Prep: Not Specified
Extraction Method: EPA 3580A
Extraction Date: 06/22/15 09:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
C1-Naphthalenes	9230		mg/kg	10.8	3.10	4
2-Methylnaphthalene	8560		mg/kg	10.8	2.78	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	80		50-130
Phenanthrene-d10	108		50-130
Benzo(a)pyrene-d12	98		50-130

Project Name: HAFFNER
Project Number: 0836060B
Lab Number: L1512919
Report Date: 06/30/15

SAMPLE RESULTS

Lab ID: L1512919-02 D
Client ID: LNAPL-RIVER
Sample Location: HAVERHILL, MA
Matrix: Oil
Analytical Method: 1,8270D-SIM(M)
Analytical Date: 06/26/15 02:10
Analyst: SR
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Date Collected: 06/10/15 08:40
Date Received: 06/10/15
Field Prep: Not Specified
Extraction Method: EPA 3580A
Extraction Date: 06/22/15 09:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Naphthalene	6380		mg/kg	5.38	1.55	2
C1-Naphthalenes	8190	E	mg/kg	5.38	1.55	2
C2-Naphthalenes	10500		mg/kg	5.38	1.55	2
C3-Naphthalenes	7830		mg/kg	5.38	1.55	2
C4-Naphthalenes	3530		mg/kg	5.38	1.55	2
2-Methylnaphthalene	7540	E	mg/kg	5.38	1.39	2
1-Methylnaphthalene	6070		mg/kg	5.38	1.70	2
Biphenyl	776		mg/kg	5.38	1.66	2
2,6-Dimethylnaphthalene	5880		mg/kg	5.38	1.28	2
Dibenzofuran	379		mg/kg	5.38	1.70	2
Acenaphthylene	297		mg/kg	5.38	1.03	2
Acenaphthene	2260		mg/kg	5.38	0.949	2
2,3,5-Trimethylnaphthalene	1400		mg/kg	5.38	0.881	2
Fluorene	1550		mg/kg	5.38	1.44	2
C1-Fluorenes	1460		mg/kg	5.38	1.44	2
C2-Fluorenes	1420		mg/kg	5.38	1.44	2
C3-Fluorenes	648		mg/kg	5.38	1.44	2
Dibenzothiophene	593		mg/kg	5.38	1.48	2
C1-Dibenzothiophenes BS	952		mg/kg	5.38	1.48	2
C2-Dibenzothiophenes	697		mg/kg	5.38	1.48	2
C3-Dibenzothiophenes	314		mg/kg	5.38	1.48	2
C4-Dibenzothiophenes	89.6		mg/kg	5.38	1.48	2
Phenanthrene	4320		mg/kg	5.38	1.78	2
C1-Phenanthrenes/Anthracenes	4080		mg/kg	5.38	1.78	2
C2-Phenanthrenes/Anthr BS	1870		mg/kg	5.38	1.78	2
C3-Phenanthrenes/Anthracenes	582		mg/kg	5.38	1.78	2
C4-Phenanthrenes/Anthracenes	144		mg/kg	5.38	1.78	2
Retene	ND		mg/kg	5.38	1.32	2
Anthracene	1070		mg/kg	5.38	1.11	2
Fluoranthene	1280		mg/kg	5.38	1.71	2

Project Name: HAFFNER **Lab Number:** L1512919

Project Number: 0836060B **Report Date:** 06/30/15

SAMPLE RESULTS

Lab ID: L1512919-02 D Date Collected: 06/10/15 08:40

Client ID: LNAPL-RIVER Date Received: 06/10/15

Sample Location: HAVERHILL, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Pyrene	2010		mg/kg	5.38	1.42	2
C1-Fluoranthenes/Pyrenes	1690		mg/kg	5.38	1.42	2
C2-Fluoranthenes/Pyrenes	614		mg/kg	5.38	1.42	2
C3-Fluoranthenes/Pyrenes	202		mg/kg	5.38	1.42	2
C4-Fluoranthenes/Pyrenes	74.0		mg/kg	5.38	1.42	2
Benz(a)anthracene	843		mg/kg	5.38	1.10	2
Chrysene/Triphenylene	788		mg/kg	5.38	1.09	2
C1-Chrysenes	796		mg/kg	5.38	1.09	2
C2-Chrysenes BS	375		mg/kg	5.38	1.09	2
C3-Chrysenes	152		mg/kg	5.38	1.09	2
C4-Chrysenes	74.0		mg/kg	5.38	1.09	2
Benzo(b)fluoranthene	249		mg/kg	5.38	1.40	2
Benzo(j)+(k)fluoranthene	348		mg/kg	5.38	1.07	2
Benzo(e)pyrene	268		mg/kg	5.38	1.11	2
Benzo(a)pyrene	507		mg/kg	5.38	1.54	2
Perylene	63.2		mg/kg	5.38	1.04	2
Indeno(1,2,3-cd)pyrene	159		mg/kg	5.38	1.46	2
Dibenz(a,h)+(a,c)anthracene	61.9		mg/kg	5.38	1.45	2
Benzo(g,h,i)perylene	164		mg/kg	5.38	1.43	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	99		50-130
Phenanthrene-d10	123		50-130
Benzo(a)pyrene-d12	126		50-130

Project Name: HAFFNER
Project Number: 0836060B

Lab Number: L1512919
Report Date: 06/30/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM(M)
Analytical Date: 06/23/15 18:19
Analyst: SR

Extraction Method: EPA 3580A
Extraction Date: 06/22/15 09:56

Parameter	Result	Qualifier	Units	RL	MDL
PAHs - Mansfield Lab for sample(s): 01-02 Batch: WG796705-1					
Naphthalene	ND		mg/kg	3.00	0.862
C1-Naphthalenes	ND		mg/kg	3.00	0.862
C2-Naphthalenes	ND		mg/kg	3.00	0.862
C3-Naphthalenes	ND		mg/kg	3.00	0.862
C4-Naphthalenes	ND		mg/kg	3.00	0.862
2-Methylnaphthalene	ND		mg/kg	3.00	0.774
1-Methylnaphthalene	ND		mg/kg	3.00	0.945
Biphenyl	ND		mg/kg	3.00	0.927
2,6-Dimethylnaphthalene	ND		mg/kg	3.00	0.713
Dibenzofuran	ND		mg/kg	3.00	0.945
Acenaphthylene	ND		mg/kg	3.00	0.572
Acenaphthene	ND		mg/kg	3.00	0.529
2,3,5-Trimethylnaphthalene	ND		mg/kg	3.00	0.491
Fluorene	ND		mg/kg	3.00	0.800
C1-Fluorenes	ND		mg/kg	3.00	0.800
C2-Fluorenes	ND		mg/kg	3.00	0.800
C3-Fluorenes	ND		mg/kg	3.00	0.800
Dibenzothiophene	ND		mg/kg	3.00	0.827
C1-Dibenzothiophenes	ND		mg/kg	3.00	0.827
C2-Dibenzothiophenes	ND		mg/kg	3.00	0.827
C3-Dibenzothiophenes	ND		mg/kg	3.00	0.827
C4-Dibenzothiophenes	ND		mg/kg	3.00	0.827
Phenanthrene	ND		mg/kg	3.00	0.994
C1-Phenanthrenes/Anthracenes	ND		mg/kg	3.00	0.994
C2-Phenanthrenes/Anthracenes	ND		mg/kg	3.00	0.994
C3-Phenanthrenes/Anthracenes	ND		mg/kg	3.00	0.994
C4-Phenanthrenes/Anthracenes	ND		mg/kg	3.00	0.994
Retene	ND		mg/kg	3.00	0.736
Anthracene	ND		mg/kg	3.00	0.618

Project Name: HAFFNER
Project Number: 0836060B

Lab Number: L1512919
Report Date: 06/30/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM(M)
Analytical Date: 06/23/15 18:19
Analyst: SR

Extraction Method: EPA 3580A
Extraction Date: 06/22/15 09:56

Parameter	Result	Qualifier	Units	RL	MDL
PAHs - Mansfield Lab for sample(s): 01-02 Batch: WG796705-1					
Fluoranthene	ND		mg/kg	3.00	0.953
Pyrene	ND		mg/kg	3.00	0.789
C1-Fluoranthenes/Pyrenes	ND		mg/kg	3.00	0.789
C2-Fluoranthenes/Pyrenes	ND		mg/kg	3.00	0.789
C3-Fluoranthenes/Pyrenes	ND		mg/kg	3.00	0.789
C4-Fluoranthenes/Pyrenes	ND		mg/kg	3.00	0.789
Benz(a)anthracene	ND		mg/kg	3.00	0.612
Chrysene/Triphenylene	ND		mg/kg	3.00	0.606
C1-Chrysenes	ND		mg/kg	3.00	0.606
C2-Chrysenes	ND		mg/kg	3.00	0.606
C3-Chrysenes	ND		mg/kg	3.00	0.606
C4-Chrysenes	ND		mg/kg	3.00	0.606
Benzo(b)fluoranthene	ND		mg/kg	3.00	0.780
Benzo(j)+(k)Fluoranthene	ND		mg/kg	3.00	0.595
Benzo(e)Pyrene	ND		mg/kg	3.00	0.619
Benzo(a)pyrene	ND		mg/kg	3.00	0.856
Perylene	ND		mg/kg	3.00	0.579
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	3.00	0.814
Dibenz(a,h)+(a,c)anthracene	ND		mg/kg	3.00	0.810
Benzo(ghi)perylene	ND		mg/kg	3.00	0.797

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	105		50-130
Phenanthrene-d10	115		50-130
Benzo(a)pyrene-d12	94		50-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAFFNER
Project Number: 0836060B

Lab Number: L1512919
Report Date: 06/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PAHs - Mansfield Lab Associated sample(s): 01-02 Batch: WG796705-2 WG796705-3								
Naphthalene	108		106		50-130	2		30
2-Methylnaphthalene	94		92		50-130	2		30
Acenaphthylene	93		98		50-130	5		30
Acenaphthene	109		109		50-130	0		30
Fluorene	104		108		50-130	4		30
Phenanthrene	105		106		50-130	1		30
Anthracene	99		102		50-130	3		30
Fluoranthene	115		118		50-130	3		30
Pyrene	108		112		50-130	4		30
Benz(a)anthracene	100		100		50-130	0		30
Chrysene/Triphenylene	110		111		50-130	1		30
Benzo(b)fluoranthene	90		90		50-130	0		30
Benzo(j)+(k)Fluoranthene	122		120		50-130	2		30
Benzo(a)pyrene	96		99		50-130	3		30
Indeno(1,2,3-cd)Pyrene	81		78		50-130	4		30
Dibenz(a,h)+(a,c)anthracene	80		80		50-130	0		30
Benzo(ghi)perylene	77		77		50-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAFFNER
Project Number: 0836060B

Lab Number: L1512919
Report Date: 06/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PAHs - Mansfield Lab Associated sample(s): 01-02 Batch: WG796705-2 WG796705-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Naphthalene-d8	97		91		50-130
Phenanthrene-d10	108		106		50-130
Benzo(a)pyrene-d12	89		87		50-130

PETROLEUM HYDROCARBONS

Project Name: HAFFNER
Project Number: 0836060B
Lab Number: L1512919
Report Date: 06/30/15

SAMPLE RESULTS

Lab ID: L1512919-01
Client ID: TAR
Sample Location: HAVERHILL, MA
Matrix: Oil
Analytical Method: 1,8015D(M)
Analytical Date: 06/24/15 05:25
Analyst: NL
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Date Collected: 06/10/15 08:40
Date Received: 06/10/15
Field Prep: Not Specified
Extraction Method: EPA 3580A
Extraction Date: 06/22/15 09:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Saturated Hydrocarbons by GC-FID - Mansfield Lab						
n-Nonane (C9)	ND		mg/kg	194	57.6	1
n-Decane (C10)	758		mg/kg	194	61.9	1
n-Undecane (C11)	345		mg/kg	194	58.0	1
n-Dodecane (C12)	416		mg/kg	194	42.3	1
n-Tridecane (C13)	ND		mg/kg	194	53.3	1
2,6,10-Trimethyldodecane (1380)	ND		mg/kg	194	29.2	1
n-Tetradecane (C14)	ND		mg/kg	194	29.2	1
2,6,10-Trimethyltridecane (1470)	1660		mg/kg	194	23.2	1
n-Pentadecane (C15)	274		mg/kg	194	23.2	1
n-Hexadecane (C16)	940	G	mg/kg	194	29.2	1
Norpristane (1650)	262		mg/kg	194	64.1	1
n-Heptadecane (C17)	539		mg/kg	194	64.1	1
Pristane	122	J	mg/kg	194	41.5	1
n-Octadecane (C18)	6810	G	mg/kg	194	39.0	1
Phytane	1830	G	mg/kg	194	24.4	1
n-Nonadecane (C19)	ND		mg/kg	194	49.9	1
n-Eicosane (C20)	ND		mg/kg	194	27.5	1
n-Heneicosane (C21)	ND		mg/kg	194	23.2	1
n-Docosane (C22)	185	J	mg/kg	194	20.2	1
n-Tricosane (C23)	571		mg/kg	194	24.7	1
n-Tetracosane (C24)	ND		mg/kg	194	32.5	1
n-Pentacosane (C25)	1190		mg/kg	194	103.	1
n-Hexacosane (C26)	89.7	J	mg/kg	194	28.5	1
n-Heptacosane (C27)	54.6	J	mg/kg	194	23.4	1
n-Octacosane (C28)	66.2	J	mg/kg	194	41.6	1
n-Nonacosane (C29)	ND		mg/kg	194	129.	1
n-Triacontane (C30)	ND		mg/kg	194	22.3	1
n-Hentriacontane (C31)	ND		mg/kg	194	27.5	1
n-Dotriacontane (C32)	ND		mg/kg	194	24.5	1
n-Tritriacontane (C33)	ND		mg/kg	194	27.3	1

Project Name: HAFFNER **Lab Number:** L1512919

Project Number: 0836060B **Report Date:** 06/30/15

SAMPLE RESULTS

Lab ID: L1512919-01 Date Collected: 06/10/15 08:40

Client ID: TAR Date Received: 06/10/15

Sample Location: HAVERHILL, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Saturated Hydrocarbons by GC-FID - Mansfield Lab						
n-Tetratriacontane (C34)	ND		mg/kg	194	30.9	1
n-Pentatriacontane (C35)	ND		mg/kg	194	33.9	1
n-Hexatriacontane (C36)	ND		mg/kg	194	38.6	1
n-Heptatriacontane (C37)	ND		mg/kg	194	43.1	1
n-Octatriacontane (C38)	ND		mg/kg	194	45.3	1
n-Nonatriacontane (C39)	ND		mg/kg	194	63.0	1
n-Tetracontane (C40)	ND		mg/kg	194	63.0	1
Total Petroleum Hydrocarbons (C9-C44)	390000		mg/kg	6410	1410	1
Total Saturated Hydrocarbons	16100		mg/kg	194	97.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
ortho-terphenyl	89		50-130
d50-Tetracosane	**132**	Q	50-130

Project Name: HAFFNER
Project Number: 0836060B
Lab Number: L1512919
Report Date: 06/30/15

SAMPLE RESULTS

Lab ID: L1512919-02
Client ID: LNAPL-RIVER
Sample Location: HAVERHILL, MA
Matrix: Oil
Analytical Method: 1,8015D(M)
Analytical Date: 06/24/15 03:57
Analyst: NL
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Date Collected: 06/10/15 08:40
Date Received: 06/10/15
Field Prep: Not Specified
Extraction Method: EPA 3580A
Extraction Date: 06/22/15 09:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Saturated Hydrocarbons by GC-FID - Mansfield Lab						
n-Nonane (C9)	ND		mg/kg	180	53.3	1
n-Decane (C10)	85.8	J	mg/kg	180	57.3	1
n-Undecane (C11)	133	J	mg/kg	180	53.6	1
n-Dodecane (C12)	491		mg/kg	180	39.1	1
n-Tridecane (C13)	ND		mg/kg	180	49.3	1
2,6,10-Trimethyldodecane (1380)	5010		mg/kg	180	27.0	1
n-Tetradecane (C14)	ND		mg/kg	180	27.0	1
2,6,10-Trimethyltridecane (1470)	9070		mg/kg	180	21.4	1
n-Pentadecane (C15)	ND		mg/kg	180	21.4	1
n-Hexadecane (C16)	2990		mg/kg	180	27.0	1
Norpristane (1650)	7030		mg/kg	180	59.2	1
n-Heptadecane (C17)	966		mg/kg	180	59.2	1
Pristane	13100		mg/kg	180	38.3	1
n-Octadecane (C18)	5850		mg/kg	180	36.0	1
Phytane	5500		mg/kg	180	22.5	1
n-Nonadecane (C19)	266		mg/kg	180	46.1	1
n-Eicosane (C20)	ND		mg/kg	180	25.4	1
n-Heneicosane (C21)	ND		mg/kg	180	21.5	1
n-Docosane (C22)	ND		mg/kg	180	18.7	1
n-Tricosane (C23)	361		mg/kg	180	22.8	1
n-Tetracosane (C24)	ND		mg/kg	180	30.0	1
n-Pentacosane (C25)	794		mg/kg	180	95.0	1
n-Hexacosane (C26)	53.1	J	mg/kg	180	26.4	1
n-Heptacosane (C27)	34.5	J	mg/kg	180	21.6	1
n-Octacosane (C28)	ND		mg/kg	180	38.5	1
n-Nonacosane (C29)	ND		mg/kg	180	120.	1
n-Triacontane (C30)	ND		mg/kg	180	20.6	1
n-Hentriacontane (C31)	ND		mg/kg	180	25.4	1
n-Dotriacontane (C32)	ND		mg/kg	180	22.6	1
n-Tritriacontane (C33)	ND		mg/kg	180	25.3	1

Project Name: HAFFNER **Lab Number:** L1512919

Project Number: 0836060B **Report Date:** 06/30/15

SAMPLE RESULTS

Lab ID: L1512919-02 Date Collected: 06/10/15 08:40

Client ID: LNAPL-RIVER Date Received: 06/10/15

Sample Location: HAVERHILL, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Saturated Hydrocarbons by GC-FID - Mansfield Lab						
n-Tetratriacontane (C34)	ND		mg/kg	180	28.6	1
n-Pentatriacontane (C35)	ND		mg/kg	180	31.3	1
n-Hexatriacontane (C36)	ND		mg/kg	180	35.7	1
n-Heptatriacontane (C37)	ND		mg/kg	180	39.9	1
n-Octatriacontane (C38)	ND		mg/kg	180	41.8	1
n-Nonatriacontane (C39)	ND		mg/kg	180	58.3	1
n-Tetracontane (C40)	ND		mg/kg	180	58.3	1
Total Petroleum Hydrocarbons (C9-C44)	976000		mg/kg	5920	1300	1
Total Saturated Hydrocarbons	51700		mg/kg	180	89.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
ortho-terphenyl	118		50-130
d50-Tetracosane	123		50-130

Project Name: HAFFNER
Project Number: 0836060B

Lab Number: L1512919
Report Date: 06/30/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 06/23/15 20:34
Analyst: NL

Extraction Method: EPA 3580A
Extraction Date: 06/22/15 09:56

Parameter	Result	Qualifier	Units	RL	MDL
Saturated Hydrocarbons by GC-FID - Mansfield Lab for sample(s): 01-02 Batch: WG796705-1					
Nonane (C9)	ND		mg/kg	200	59.3
Decane (C10)	ND		mg/kg	200	63.8
Undecane	ND		mg/kg	200	59.7
Dodecane (C12)	ND		mg/kg	200	43.6
Tridecane	ND		mg/kg	200	54.9
2,6,10-Trimethyldodecane (1380)	ND		mg/kg	200	30.1
Tetradecane (C14)	ND		mg/kg	200	30.1
2,6,10-Trimethyltridecane (1470)	ND		mg/kg	200	23.9
n-Pentadecane (C15)	ND		mg/kg	200	23.9
Hexadecane (C16)	ND		mg/kg	200	30.1
Norpristane (1650)	ND		mg/kg	200	66.0
n-Heptadecane (C17)	ND		mg/kg	200	66.0
Pristane	ND		mg/kg	200	42.7
Octadecane (C18)	ND		mg/kg	200	40.1
Phytane	ND		mg/kg	200	25.1
Nonadecane (C19)	ND		mg/kg	200	51.4
Eicosane (C20)	ND		mg/kg	200	28.3
Heneicosane (C21)	ND		mg/kg	200	23.9
Docosane (C22)	ND		mg/kg	200	20.9
n-Tricosane (C23)	ND		mg/kg	200	25.4
Tetracosane (C24)	ND		mg/kg	200	33.5
Pentacosane (C25)	ND		mg/kg	200	106.
Hexacosane (C26)	ND		mg/kg	200	29.4
Heptacosane (C27)	ND		mg/kg	200	24.1
Octacosane (C28)	ND		mg/kg	200	42.9
Nonacosane (C29)	ND		mg/kg	200	133.
Triacontane (C30)	ND		mg/kg	200	22.9
Hentatriacontane (C31)	ND		mg/kg	200	28.3
Dotriacontane (C32)	ND		mg/kg	200	25.2

Project Name: HAFFNER
Project Number: 0836060B

Lab Number: L1512919
Report Date: 06/30/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 06/23/15 20:34
Analyst: NL

Extraction Method: EPA 3580A
Extraction Date: 06/22/15 09:56

Parameter	Result	Qualifier	Units	RL	MDL
Saturated Hydrocarbons by GC-FID - Mansfield Lab for sample(s): 01-02 Batch: WG796705-1					
Tritriacontane (C33)	ND		mg/kg	200	28.1
Tetratriacontane (C34)	ND		mg/kg	200	31.8
Pentatriacontane (C35)	ND		mg/kg	200	34.9
Hexatriacontane (C36)	ND		mg/kg	200	39.8
Heptatriacontane (C37)	ND		mg/kg	200	44.4
Octatriacontane (C38)	ND		mg/kg	200	46.6
Nonatriacontane (C39)	ND		mg/kg	200	64.9
Tetracontane (C40)	ND		mg/kg	200	64.9
Total Petroleum Hydrocarbons (C9-C44)	ND		mg/kg	6600	1450
Total Saturated Hydrocarbons	ND		mg/kg	200	100.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	107		50-130
d50-Tetracosane	104		50-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAFFNER
Project Number: 0836060B

Lab Number: L1512919
Report Date: 06/30/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Saturated Hydrocarbons by GC-FID - Mansfield Lab Associated sample(s): 01-02 Batch: WG796705-2 WG796705-3								
n-Nonane (C9)	88		90		50-130	2		30
n-Decane (C10)	83		84		50-130	1		30
n-Dodecane (C12)	94		93		50-130	1		30
n-Tetradecane (C14)	97		101		50-130	4		30
n-Hexadecane (C16)	106		108		50-130	2		30
n-Octadecane (C18)	107		108		50-130	1		30
n-Nonadecane (C19)	94		93		50-130	1		30
n-Eicosane (C20)	98		107		50-130	9		30
n-Docosane (C22)	101		103		50-130	2		30
n-Tetracosane (C24)	101		103		50-130	2		30
n-Hexacosane (C26)	101		104		50-130	3		30
n-Octacosane (C28)	108		109		50-130	1		30
n-Triacontane (C30)	104		105		50-130	1		30
n-Hexatriacontane (C36)	93		98		50-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
ortho-terphenyl	105		103		50-130
d50-Tetracosane	102		100		50-130

Project Name: HAFFNER
Project Number: 0836060B

Lab Number: L1512919
Report Date: 06/30/15

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1512919-01A	Amber 100ml unpreserved	A	N/A	4.9	Y	Absent	-
L1512919-02A	Vial unpreserved	A	N/A	4.9	Y	Absent	A2-PIANO8260(365),A2-SHC(365),A2-ALKPAH(365)

*Values in parentheses indicate holding time in days

Project Name:	HAFFNER	**Lab Number:**	L1512919
Project Number:	0836060B	**Report Date:**	06/30/15

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name: HAFFNER **Lab Number:** L1512919

Project Number: 0836060B **Report Date:** 06/30/15

Data Qualifiers

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name: HAFFNER **Lab Number:** L1512919
Project Number: 0836060B **Report Date:** 06/30/15

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised December 16, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA 2540D: TSS
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL
8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Date Rec'd in Lab: 6/10/15

ALPHA Job #: L1512919

Client Information

Client: Ramboll Environ

Address: 3 Carlisle Rd, Westford, MA

Phone: 978.449.0333

Email: jnoble@environcorp.com

Project Information

Project Name: Haffner

Project Location: Haverhill, MA

Project #: 0836060B

Project Manager: J. Noble

ALPHA Quote #: 2015090

Report Information - Data Deliverables

☒ ADEx ☒ EMAIL

Billing Information

☒ Same as Client info | PO #:

Regulatory Requirements & Project Information Requirements

☒ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program ____ Criteria ____

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due:

Additional Project Information:
In accordance with Master Service Agreement dated 11/15/13

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	VOC: ☐ 8260 ☐ 624 ☐ 524.2	SVOC: ☐ ABN ☐ PAH	METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15	METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13	EPH: ☐ Ranges & Targets ☐ Ranges Only	VPH: ☐ Ranges & Targets ☐ Ranges Only	☐ PCB ☐ PEST	TPH: ☐ Quant Only ☐ Fingerprint	PIANO by EPA 8260	Saturated Hydrocarbons by 8015D-Modified	6C/F10 EPA	Alkylated PAHs by EPA 8270D-SIM-Modified	Sample Comments	TOTAL # BOTTLES
12919.01	Tar	6-10-15	0840	O	RS										X		X		1
.02	LNAPL-River	↓	↓	O	RS									X	X		X		1
Container Type														V/G	V/G		V/G		
Preservative														A	A		A		

SAMPLE INFO
Filtration ☐ Field ☐ Lab to do
Preservation ☐ Lab to do

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO_3
D= H_2SO_4
E= NaOH
F= MeOH
G= $NaHSO_4$
H = $Na_2S_2O_3$
I= Ascorbic Acid
J = NH_4Cl
K= Zn Acetate
O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	6-10-15 / 1003	[signature] AAC	6-10-15 1003
[signature]	6-10-15 1720	[signature]	6/10/15 1720
[signature]	6/11/15 0400	[signature]	6/11/15 0400

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

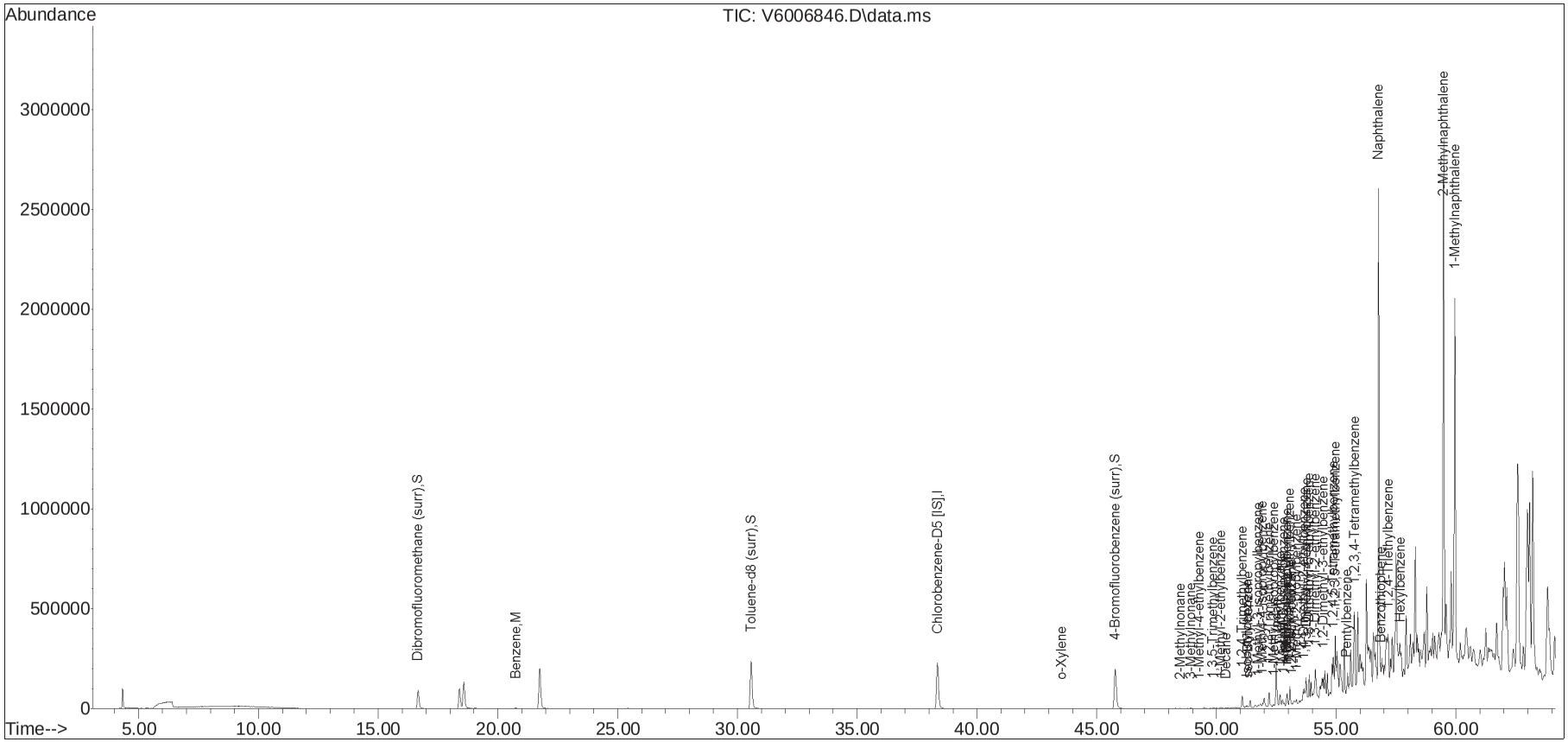
PIANO Chromatogram

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\VOA6\2015\150623\
Data File : V6006846.D
Acq On : 24 Jun 2015 1:37 am
Operator : VOA6:MR
Sample : L1512919-02D,31,0.1236,10,0.01
Misc : WG796625,ICAL10918
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 24 11:20:57 2015
Quant Method : O:\Organics\DATA\VOA6\2015\150623\P6041715W.M
Quant Title : PIANO VOLATILES
QLast Update : Sat Apr 18 11:59:14 2015
Response via : Initial Calibration

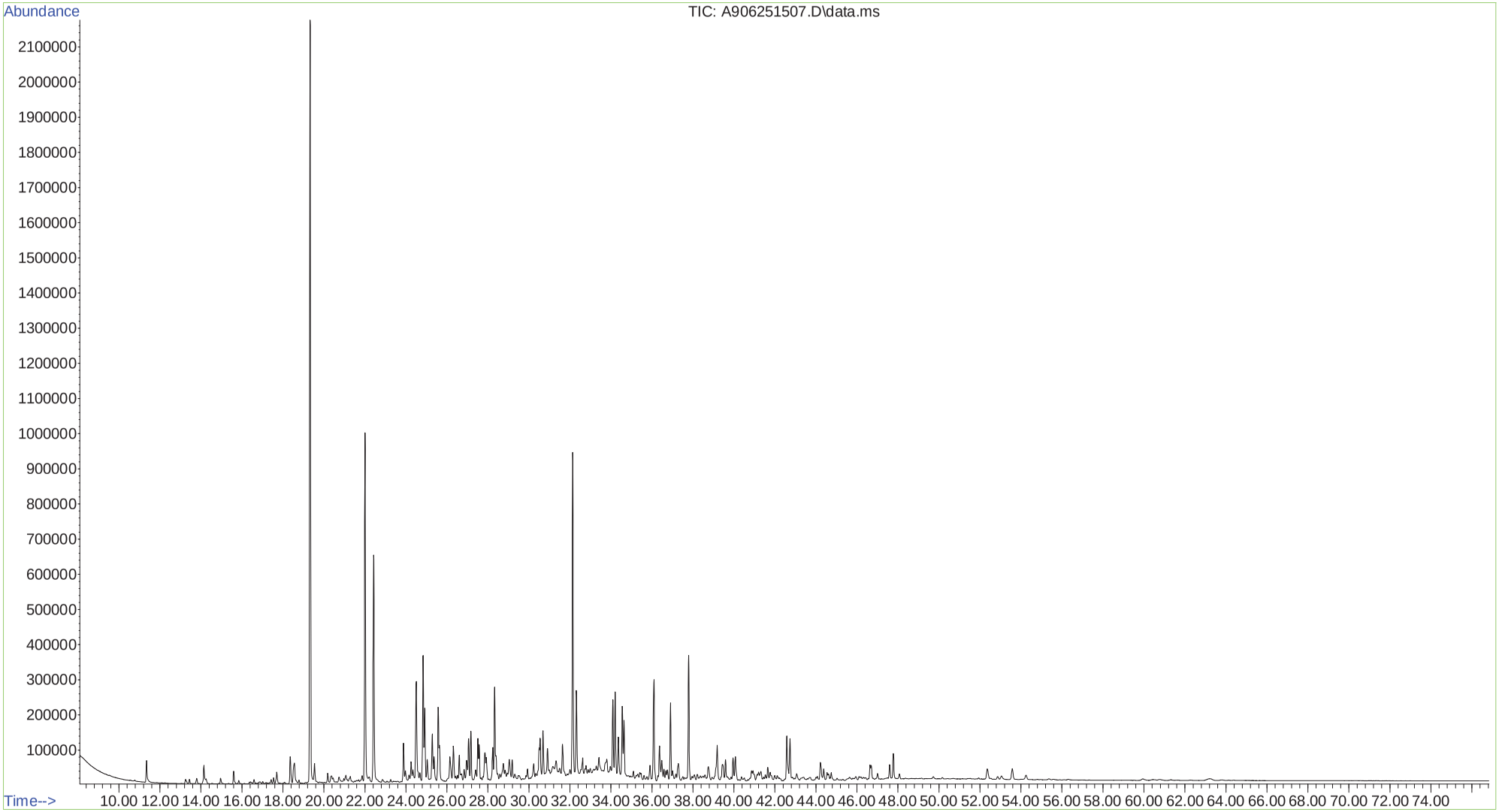
Sub List : Default - All compounds listed



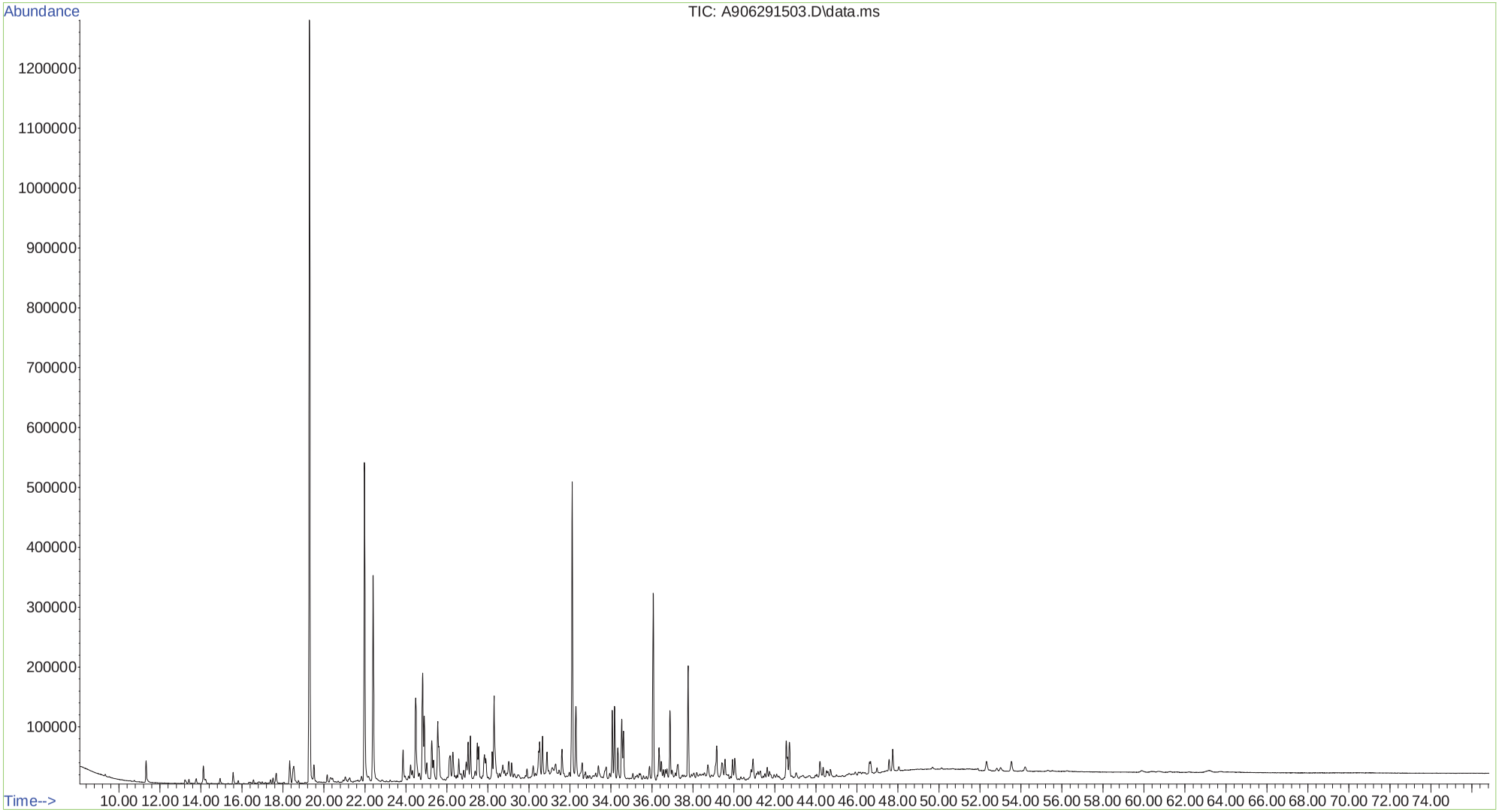
P6041715W.M Wed Jun 24 11:26:09 2015 Page: 6

Alkylated PAH Chromatogram

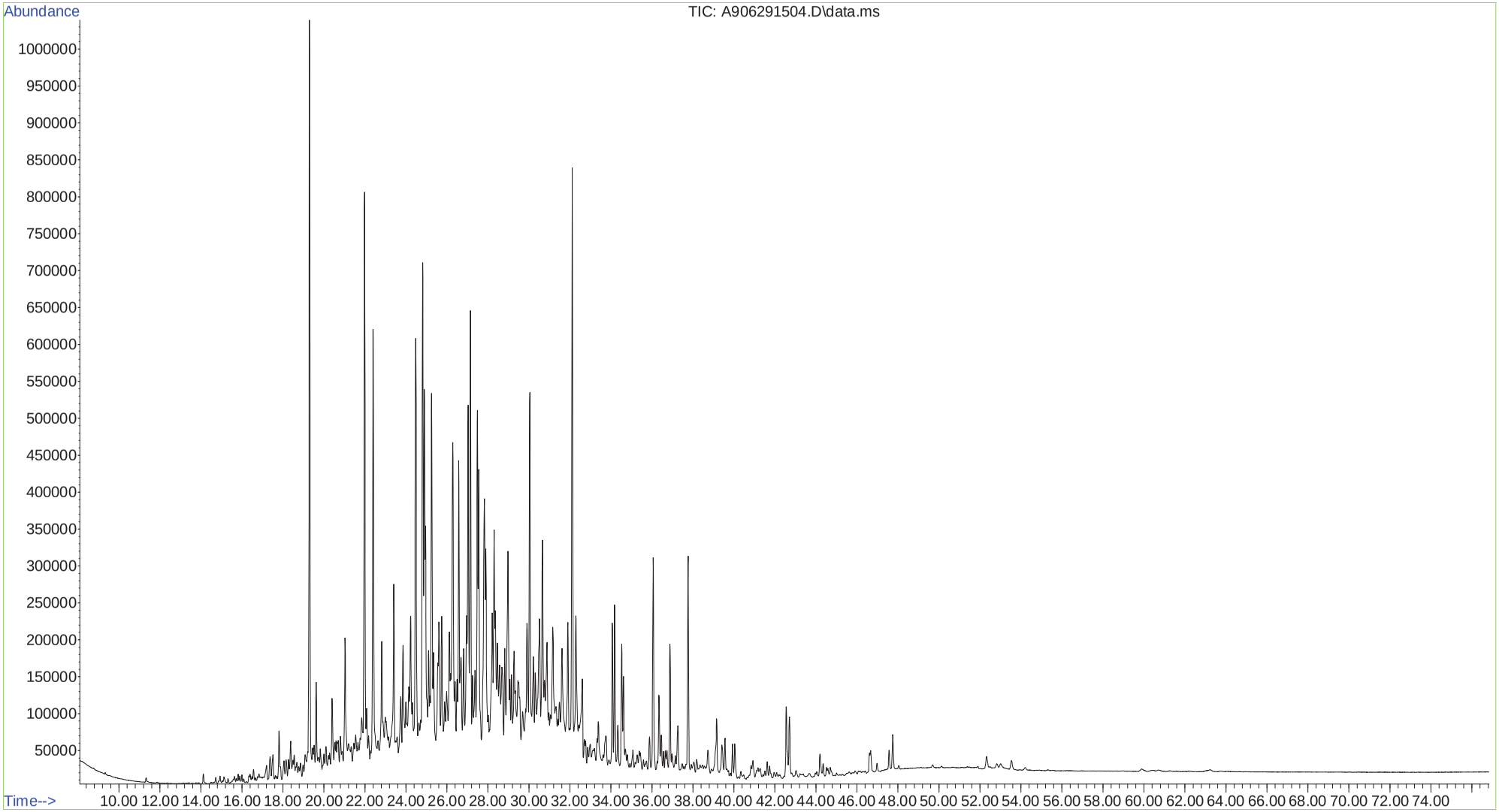
```
File       :O:\Forensics\Data\PAH9\2015\June15\June25\A906251507.D
Operator  : PAH9:SR
Acquired  : 26 Jun 2015  12:45 am using AcqMethod FRNC9ALT.M
Instrument :   PAH 9
Sample    : L1512919-01D,32,2
Misc Info : WG797584,WG796705,ICAL11136
ALS Vial  : 7
```



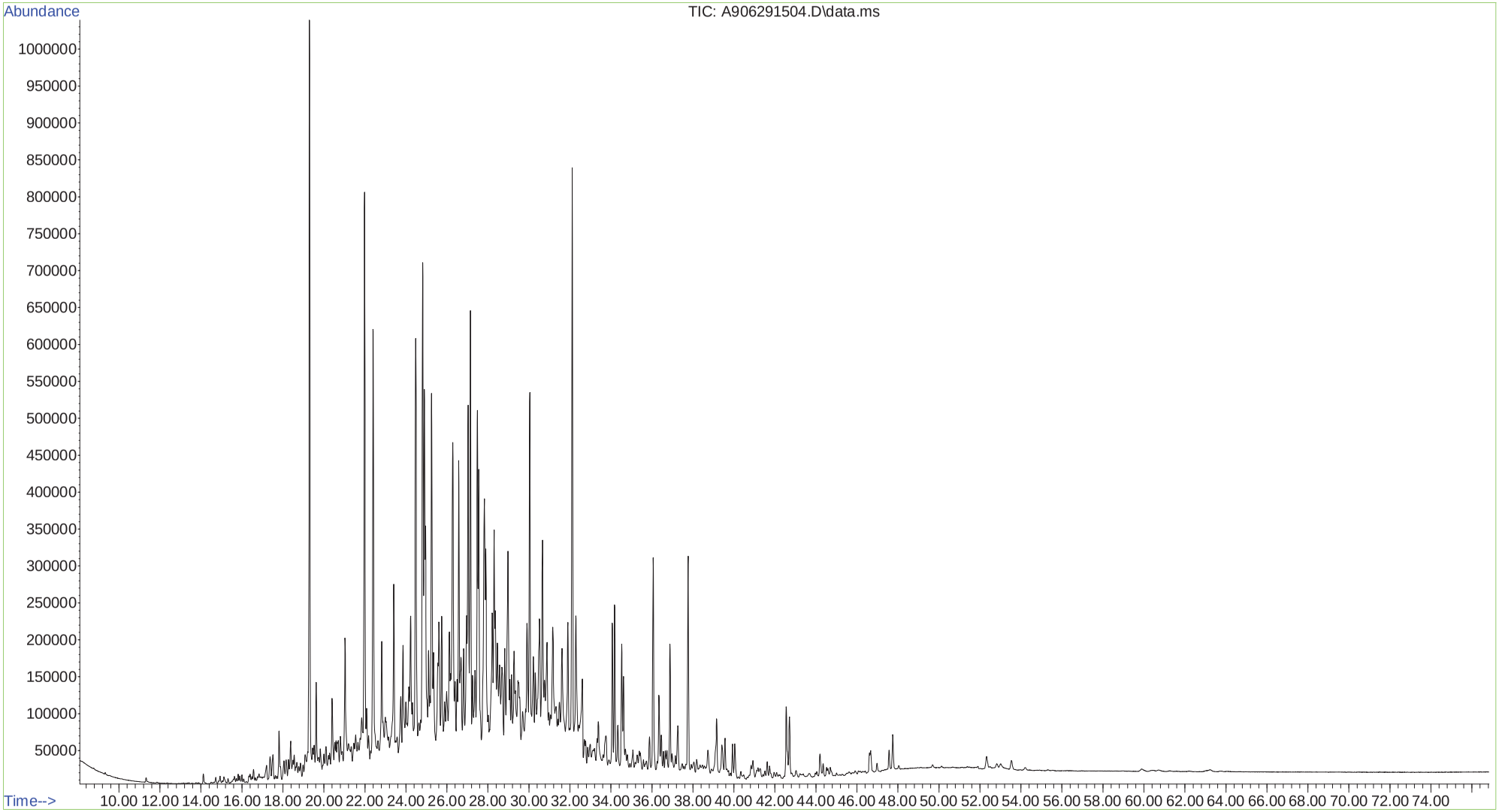
```
File       :O:\Forensics\Data\PAH9\2015\June15\June29\A906291503.D
Operator  : PAH9:SR
Acquired  : 29 Jun 2015   2:02 pm using AcqMethod FRNC9ALT.M
Instrument :   PAH 9
Sample    : L1512919-01D2,32,8
Misc Info : WG797584,WG796705,ICAL11136
ALS Vial  : 3
```



```
File       :O:\Forensics\Data\PAH9\2015\June15\June29\A906291504.D
Operator  : PAH9:SR
Acquired  : 29 Jun 2015   3:27 pm using AcqMethod FRNC9ALT.M
Instrument :   PAH 9
Sample    : L1512919-02D,32,4
Misc Info : WG797584,WG796705,ICAL11136
ALS Vial  : 4
```

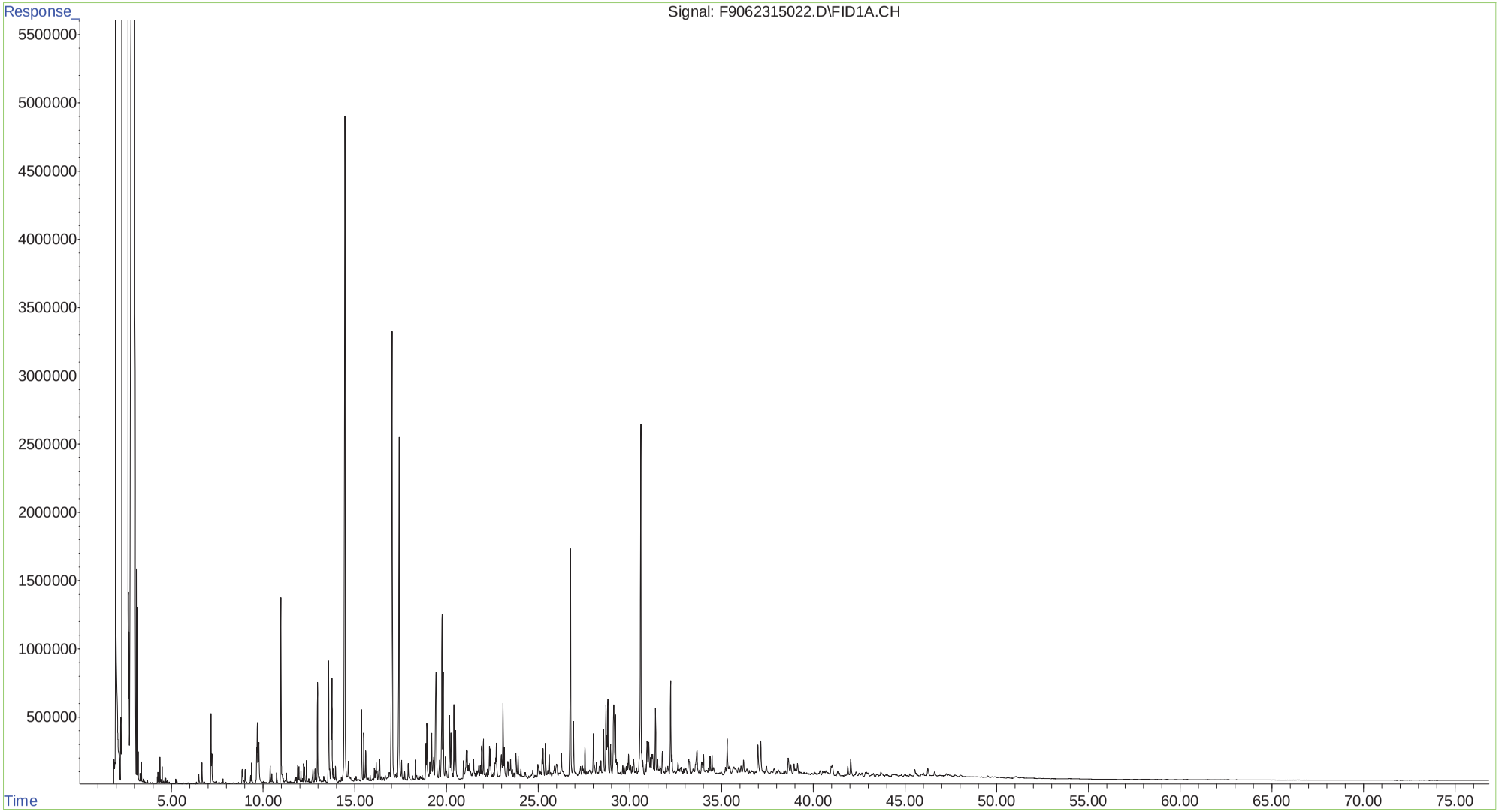


```
File       :O:\Forensics\Data\PAH9\2015\June15\June29\A906291504.D
Operator  : PAH9:SR
Acquired  : 29 Jun 2015   3:27 pm using AcqMethod FRNC9ALT.M
Instrument :   PAH 9
Sample    : L1512919-02D2,32,4
Misc Info : WG797584,WG796705,ICAL11136
ALS Vial  : 4
```

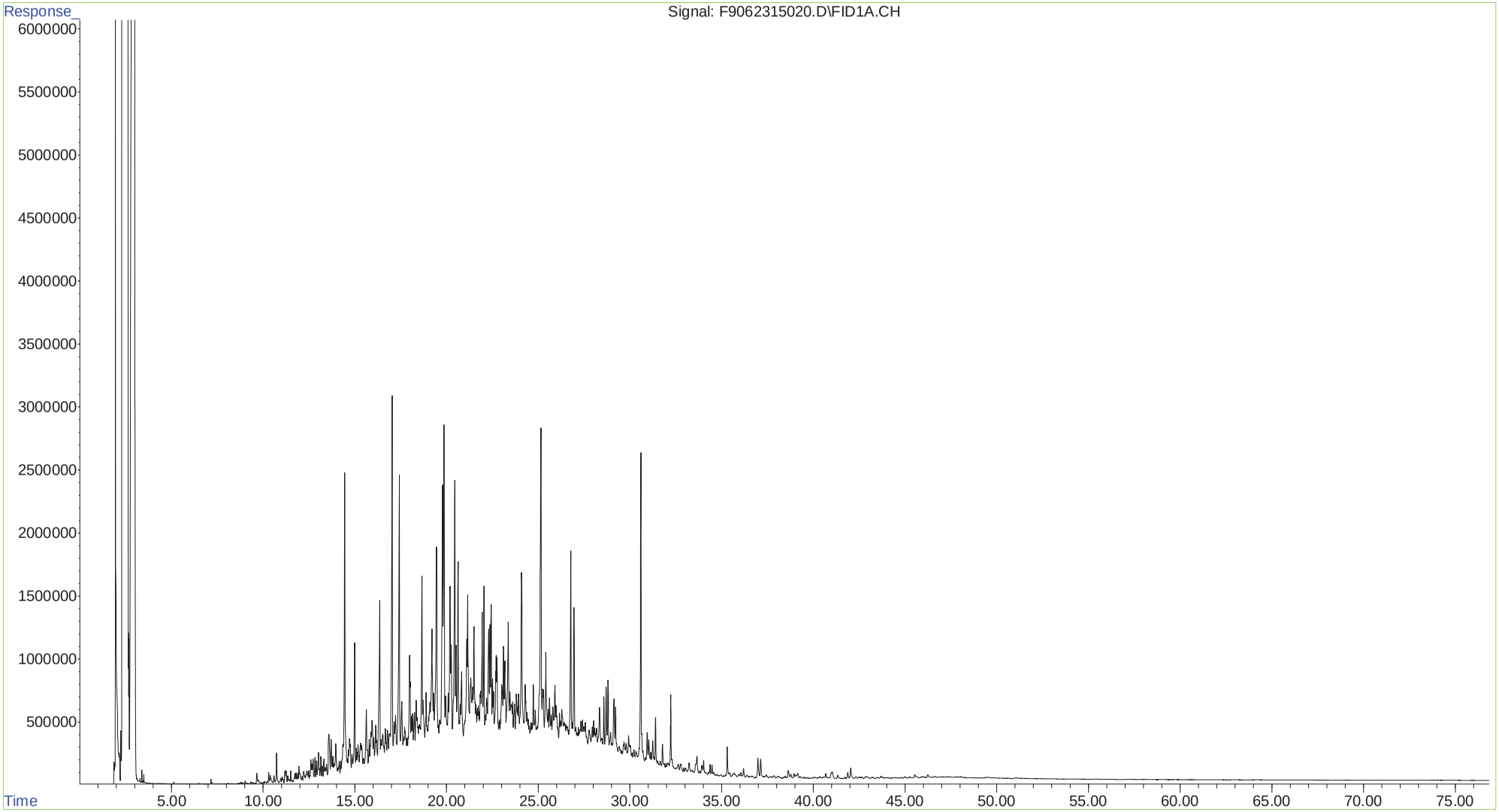


GC-FID Chromatogram

```
File       :O:\Forensics\Data\FID9\2015\Jun\JUNE23\F9062315022.D
Operator  : FID9:NL
Acquired  : 24 Jun 2015   5:25 am using AcqMethod FID9A.M
Instrument :   FID 9
Sample    : L1512919-01,42
Misc Info : WG796971,WG796705
ALS Vial  : 11
```



```
File       :O:\Forensics\Data\FID9\2015\Jun\JUNE23\F9062315020.D
Operator  : FID9:NL
Acquired  : 24 Jun 2015   3:57 am using AcqMethod FID9A.M
Instrument :   FID 9
Sample    : L1512919-02,42
Misc Info : WG796971,WG796705
ALS Vial  : 10
```



ANALYTICAL REPORT

Lab Number:	L1518191
Client:	Environ 3 Carlisle Rd Suite 210 Westford, MA 01450
ATTN:	John Noble
Phone:	(978) 449-0300
Project Name:	HAFFNER'S-284 WINTER ST.
Project Number:	08-36060B
Report Date:	08/07/15

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

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

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

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1518191
Report Date: 08/07/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1518191-01	ENV-5B-12.5'-15.0'	SOIL	HAVERHILL, MA	04/27/15 09:56	04/29/15
L1518191-02	ENV-6B-6.0'-7.0'	SOIL	HAVERHILL, MA	04/27/15 11:00	04/29/15
L1518191-03	ENV-7B-10.0'-11.0'	SOIL	HAVERHILL, MA	04/27/15 11:45	04/29/15
L1518191-04	DUP	SOIL	HAVERHILL, MA	04/27/15 12:00	04/29/15
L1518191-05	ENV-9B-12.5'-15.0'	SOIL	HAVERHILL, MA	04/27/15 12:50	04/29/15
L1518191-06	ENV-8B-12.5'-15.0'	SOIL	HAVERHILL, MA	04/27/15 14:45	04/29/15
L1518191-07	ENV-11B-15.0'-17.5'	SOIL	HAVERHILL, MA	04/27/15 16:10	04/29/15
L1518191-08	ENV-1B-15.0'-17.5'	SOIL	HAVERHILL, MA	04/28/15 09:30	04/29/15
L1518191-09	ENV-2B-5.0'-6-5'	SOIL	HAVERHILL, MA	04/28/15 10:00	04/29/15
L1518191-10	ENV-3B-12.5'-15.0'	SOIL	HAVERHILL, MA	04/28/15 11:00	04/29/15
L1518191-11	ENV-4B-2.5'-3.5'	SOIL	HAVERHILL, MA	04/28/15 11:42	04/29/15
L1518191-12	ENV-10B-0.0'-2.5'	SOIL	HAVERHILL, MA	04/28/15 12:30	04/29/15
L1518191-13	ENV-12B-15.0'-17.5'	SOIL	HAVERHILL, MA	04/28/15 13:35	04/29/15
L1518191-14	ENV-13B-17.5'-20.0'	SOIL	HAVERHILL, MA	04/28/15 14:30	04/29/15
L1518191-15	TRIP BLANK	SOIL	HAVERHILL, MA	04/22/15 00:00	04/29/15

Project Name: HAFFNER'S-284 WINTER ST. **Lab Number:** L1518191

Project Number: 08-36060B **Report Date:** 08/07/15

MADEP MCP Response Action Analytical Report Certification

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

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

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO

For any questions answered "No", please refer to the case narrative section on the following page(s).

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

Project Name: HAFFNER'S-284 WINTER ST. **Lab Number:** L1518191
Project Number: 08-36060B **Report Date:** 08/07/15

Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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

Please contact Client Services at 800-624-9220 with any questions.

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Project Number:	08-36060B	**Report Date:**	08/07/15

Case Narrative (continued)

Report Submission

This report contains the results of the EPH and VPH analyses. The results of all other requested analyses will be reported under separate cover.

MCP Related Narratives

VPH

L1518191-05, -08: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

L1518191-12: It should be noted that based on review of the VPH chromatograms there is the potential that non-hydrocarbon compounds are being included in the summation of the C5-C8 Aliphatics range. This could result in a greater concentration being reported for this range than would otherwise be the case. The VPH gas chromatographic method is subject to the inclusion of non-hydrocarbon compounds in carbon range summations if the non-hydrocarbon compound is amenable to the method operating conditions and elutes within the range's retention time window. A copy of the chromatogram is included as an attachment to this report.

In reference to question G:

L1518191-03, -04, -05, -08, -10, -11, -14: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

L1518191-01, -05, -06, -07, -10, -11, -13, and -14: The surrogate recoveries are below the acceptance criteria for 2,5-dibromotoluene-pid (0%) and 2,5-dibromotoluene-fid (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

The surrogate recovery for L1518191-02 is outside the acceptance criteria for 2,5-dibromotoluene-fid (67%); however, the sample was not re-analyzed due to coelution with obvious interferences. A copy of the chromatogram is included as an attachment to this report. The results are not considered to be biased.

The surrogate recovery for L1518191-04 is outside the acceptance criteria for 2,5-dibromotoluene-fid (60%); however, the sample was not re-analyzed due to coelution with obvious interferences. A copy of the

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Case Narrative (continued)

chromatogram is included as an attachment to this report. The results are not considered to be biased.

In reference to question I:

L1518191-01, -05, -06, -07, -08 and -13 were analyzed for a subset of MCP analytes per the Chain of Custody.

EPH

The WG783172-4/-5 MS/MSD was not analyzed because the dilution required by the elevated concentrations of target compounds present in the sample to be utilized for the MS/MSD would have caused the spike compounds to be diluted below the range of calibration.

In reference to question G:

L1518191-02, -03, -04, -05, -09, -10, -11, -14: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

L1518191-01, -05, -06, -07, -10, -11, -13, and -14: The surrogate recoveries are below the acceptance criteria for chloro-octadecane (0%) and o-terphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

In reference to question I:

L1518191-01, -06, -07, -08, and -13 were analyzed for a subset of MCP analytes per the Chain of Custody.

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

Authorized Signature: Lisa Westerlind

Title: Technical Director/Representative Date: 08/07/15

ORGANICS

PETROLEUM HYDROCARBONS

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-01 D	Date Collected:	04/27/15 09:56
Client ID:	ENV-5B-12.5'-15.0'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	05/05/15 00:40		
Analyst:	BS		
Percent Solids:	84%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Yes (Covering the Soil)
Methanol ratio:	1.4:1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	390		mg/kg	237	--	50
C9-C12 Aliphatics	4250		mg/kg	237	--	50
C9-C10 Aromatics	2220		mg/kg	237	--	50
C5-C8 Aliphatics, Adjusted	351		mg/kg	237	--	50
C9-C12 Aliphatics, Adjusted	1660		mg/kg	237	--	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	0	Q	70-130
2,5-Dibromotoluene-FID	0	Q	70-130

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-01 D	Date Collected:	04/27/15 09:56
Client ID:	ENV-5B-12.5'-15.0'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	05/08/15 09:34
Analytical Date:	05/21/15 19:35	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	05/09/15
Percent Solids:	84%		

Quality Control Information

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	4800		mg/kg	155	--	20
C19-C36 Aliphatics	860		mg/kg	155	--	20
C11-C22 Aromatics	4420		mg/kg	155	--	20
C11-C22 Aromatics, Adjusted	3910		mg/kg	155	--	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	**0**	Q	40-140
o-Terphenyl	**0**	Q	40-140
2-Fluorobiphenyl	76		40-140
2-Bromonaphthalene	78		40-140

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-02 D	Date Collected:	04/27/15 11:00
Client ID:	ENV-6B-6.0'-7.0'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	05/04/15 22:38		
Analyst:	BS		
Percent Solids:	84%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	1.4:1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	59.6		mg/kg	10.1	--	2
C9-C12 Aliphatics	361		mg/kg	10.1	--	2
C9-C10 Aromatics	248		mg/kg	10.1	--	2
C5-C8 Aliphatics, Adjusted	58.6		mg/kg	10.1	--	2
C9-C12 Aliphatics, Adjusted	105		mg/kg	10.1	--	2
Benzene	1.04		mg/kg	0.406	--	2
Toluene	ND		mg/kg	0.406	--	2
Ethylbenzene	6.26		mg/kg	0.406	--	2
p/m-Xylene	0.880		mg/kg	0.406	--	2
o-Xylene	1.31		mg/kg	0.406	--	2
Methyl tert butyl ether	ND		mg/kg	0.203	--	2
Naphthalene	10.7		mg/kg	0.812	--	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	80		70-130
2,5-Dibromotoluene-FID	**67**	Q	70-130

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-02 D	Date Collected:	04/27/15 11:00
Client ID:	ENV-6B-6.0'-7.0'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	05/08/15 09:34
Analytical Date:	05/16/15 16:25	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	05/09/15
Percent Solids:	84%		

Quality Control Information

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	3090		mg/kg	30.3	--	4
C19-C36 Aliphatics	1440		mg/kg	30.3	--	4
C11-C22 Aromatics	2400		mg/kg	30.3	--	4
C11-C22 Aromatics, Adjusted	2290		mg/kg	30.3	--	4
Naphthalene	ND		mg/kg	1.51	--	4
2-Methylnaphthalene	7.49		mg/kg	1.51	--	4
Acenaphthylene	ND		mg/kg	1.51	--	4
Acenaphthene	2.77		mg/kg	1.51	--	4
Fluorene	2.26		mg/kg	1.51	--	4
Phenanthrene	27.3		mg/kg	1.51	--	4
Anthracene	6.38		mg/kg	1.51	--	4
Fluoranthene	12.9		mg/kg	1.51	--	4
Pyrene	19.2		mg/kg	1.51	--	4
Benzo(a)anthracene	8.07		mg/kg	1.51	--	4
Chrysene	7.72		mg/kg	1.51	--	4
Benzo(b)fluoranthene	4.19		mg/kg	1.51	--	4
Benzo(k)fluoranthene	5.15		mg/kg	1.51	--	4
Benzo(a)pyrene	7.27		mg/kg	1.51	--	4
Indeno(1,2,3-cd)Pyrene	3.48		mg/kg	1.51	--	4
Dibenzo(a,h)anthracene	ND		mg/kg	1.51	--	4
Benzo(ghi)perylene	3.41		mg/kg	1.51	--	4

Project Name: HAFFNER'S-284 WINTER ST. **Lab Number:** L1518191

Project Number: 08-36060B **Report Date:** 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-02 D	Date Collected:	04/27/15 11:00
Client ID:	ENV-6B-6.0'-7.0'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	51		40-140
o-Terphenyl	46		40-140
2-Fluorobiphenyl	75		40-140
2-Bromonaphthalene	61		40-140

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-03 D	Date Collected:	04/27/15 11:45
Client ID:	ENV-7B-10.0'-11.0'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	05/04/15 23:59		
Analyst:	BS		
Percent Solids:	86%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	1.3:1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		mg/kg	109	--	25
C9-C12 Aliphatics	463		mg/kg	109	--	25
C9-C10 Aromatics	522		mg/kg	109	--	25
C5-C8 Aliphatics, Adjusted	ND		mg/kg	109	--	25
C9-C12 Aliphatics, Adjusted	ND		mg/kg	109	--	25
Benzene	ND		mg/kg	4.37	--	25
Toluene	ND		mg/kg	4.37	--	25
Ethylbenzene	7.16		mg/kg	4.37	--	25
p/m-Xylene	ND		mg/kg	4.37	--	25
o-Xylene	ND		mg/kg	4.37	--	25
Methyl tert butyl ether	ND		mg/kg	2.18	--	25
Naphthalene	244		mg/kg	8.73	--	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	84		70-130
2,5-Dibromotoluene-FID	88		70-130

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-03 D	Date Collected:	04/27/15 11:45
Client ID:	ENV-7B-10.0'-11.0'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	05/08/15 09:34
Analytical Date:	05/16/15 11:02	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	05/09/15
Percent Solids:	86%		

Quality Control Information

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	1390		mg/kg	72.6	--	10
C19-C36 Aliphatics	757		mg/kg	72.6	--	10
C11-C22 Aromatics	3700		mg/kg	72.6	--	10
C11-C22 Aromatics, Adjusted	3100		mg/kg	72.6	--	10
Naphthalene	109		mg/kg	3.63	--	10
2-Methylnaphthalene	86.5		mg/kg	3.63	--	10
Acenaphthylene	25.1		mg/kg	3.63	--	10
Acenaphthene	11.2		mg/kg	3.63	--	10
Fluorene	21.1		mg/kg	3.63	--	10
Phenanthrene	91.1		mg/kg	3.63	--	10
Anthracene	22.0		mg/kg	3.63	--	10
Fluoranthene	38.8		mg/kg	3.63	--	10
Pyrene	68.2		mg/kg	3.63	--	10
Benzo(a)anthracene	21.7		mg/kg	3.63	--	10
Chrysene	27.0		mg/kg	3.63	--	10
Benzo(b)fluoranthene	14.2		mg/kg	3.63	--	10
Benzo(k)fluoranthene	17.3		mg/kg	3.63	--	10
Benzo(a)pyrene	24.5		mg/kg	3.63	--	10
Indeno(1,2,3-cd)Pyrene	11.0		mg/kg	3.63	--	10
Dibenzo(a,h)anthracene	ND		mg/kg	3.63	--	10
Benzo(ghi)perylene	12.2		mg/kg	3.63	--	10

Project Name: HAFFNER'S-284 WINTER ST. **Lab Number:** L1518191

Project Number: 08-36060B **Report Date:** 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-03 D	Date Collected:	04/27/15 11:45
Client ID:	ENV-7B-10.0'-11.0'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	96		40-140
o-Terphenyl	80		40-140
2-Fluorobiphenyl	66		40-140
2-Bromonaphthalene	88		40-140

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-04 D	Date Collected:	04/27/15 12:00
Client ID:	DUP	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	05/07/15 00:47		
Analyst:	BS		
Percent Solids:	86%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	1.3:1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		mg/kg	89.6	--	20
C9-C12 Aliphatics	268		mg/kg	89.6	--	20
C9-C10 Aromatics	245		mg/kg	89.6	--	20
C5-C8 Aliphatics, Adjusted	ND		mg/kg	89.6	--	20
C9-C12 Aliphatics, Adjusted	ND		mg/kg	89.6	--	20
Benzene	ND		mg/kg	3.58	--	20
Toluene	ND		mg/kg	3.58	--	20
Ethylbenzene	5.40		mg/kg	3.58	--	20
p/m-Xylene	ND		mg/kg	3.58	--	20
o-Xylene	ND		mg/kg	3.58	--	20
Methyl tert butyl ether	ND		mg/kg	1.79	--	20
Naphthalene	175		mg/kg	7.17	--	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	71		70-130
2,5-Dibromotoluene-FID	**60**	Q	70-130

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-04 D	Date Collected:	04/27/15 12:00
Client ID:	DUP	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	05/08/15 09:34
Analytical Date:	05/16/15 17:11	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	05/09/15
Percent Solids:	86%		

Quality Control Information

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	1240		mg/kg	58.8	--	8
C19-C36 Aliphatics	721		mg/kg	58.8	--	8
C11-C22 Aromatics	3610		mg/kg	58.8	--	8
C11-C22 Aromatics, Adjusted	3020		mg/kg	58.8	--	8
Naphthalene	112		mg/kg	2.94	--	8
2-Methylnaphthalene	86.2		mg/kg	2.94	--	8
Acenaphthylene	21.4		mg/kg	2.94	--	8
Acenaphthene	10.7		mg/kg	2.94	--	8
Fluorene	20.2		mg/kg	2.94	--	8
Phenanthrene	92.3		mg/kg	2.94	--	8
Anthracene	22.5		mg/kg	2.94	--	8
Fluoranthene	38.0		mg/kg	2.94	--	8
Pyrene	66.6		mg/kg	2.94	--	8
Benzo(a)anthracene	20.6		mg/kg	2.94	--	8
Chrysene	26.0		mg/kg	2.94	--	8
Benzo(b)fluoranthene	13.2		mg/kg	2.94	--	8
Benzo(k)fluoranthene	16.5		mg/kg	2.94	--	8
Benzo(a)pyrene	24.5		mg/kg	2.94	--	8
Indeno(1,2,3-cd)Pyrene	10.9		mg/kg	2.94	--	8
Dibenzo(a,h)anthracene	ND		mg/kg	2.94	--	8
Benzo(ghi)perylene	12.1		mg/kg	2.94	--	8

Project Name: HAFFNER'S-284 WINTER ST. **Lab Number:** L1518191

Project Number: 08-36060B **Report Date:** 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-04 D	Date Collected:	04/27/15 12:00
Client ID:	DUP	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	70		40-140
o-Terphenyl	81		40-140
2-Fluorobiphenyl	67		40-140
2-Bromonaphthalene	62		40-140

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-05 D	Date Collected:	04/27/15 12:50
Client ID:	ENV-9B-12.5'-15.0'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	05/07/15 02:07		
Analyst:	BS		
Percent Solids:	85%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Yes (Covering the Soil)
Methanol ratio:	1:1 +/- 25%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		mg/kg	345	--	100
C9-C12 Aliphatics	3850		mg/kg	345	--	100
C9-C10 Aromatics	648		mg/kg	345	--	100
C5-C8 Aliphatics, Adjusted	ND		mg/kg	345	--	100
C9-C12 Aliphatics, Adjusted	2730		mg/kg	345	--	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	0	Q	70-130
2,5-Dibromotoluene-FID	0	Q	70-130

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-05 D	Date Collected:	04/27/15 12:50
Client ID:	ENV-9B-12.5'-15.0'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	05/08/15 09:34
Analytical Date:	05/20/15 16:09	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	05/09/15
Percent Solids:	85%		

Quality Control Information

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	8040		mg/kg	191	--	25
C19-C36 Aliphatics	830		mg/kg	191	--	25
C11-C22 Aromatics	6060		mg/kg	191	--	25
C11-C22 Aromatics, Adjusted	5140		mg/kg	191	--	25
Naphthalene	362		mg/kg	9.57	--	25
2-Methylnaphthalene	234		mg/kg	9.57	--	25
Acenaphthylene	10.3		mg/kg	9.57	--	25
Acenaphthene	32.6		mg/kg	9.57	--	25
Fluorene	37.7		mg/kg	9.57	--	25
Phenanthrene	96.9		mg/kg	9.57	--	25
Anthracene	33.7		mg/kg	9.57	--	25
Fluoranthene	26.8		mg/kg	9.57	--	25
Pyrene	46.0		mg/kg	9.57	--	25
Benzo(a)anthracene	13.9		mg/kg	9.57	--	25
Chrysene	15.6		mg/kg	9.57	--	25
Benzo(b)fluoranthene	ND		mg/kg	9.57	--	25
Benzo(k)fluoranthene	ND		mg/kg	9.57	--	25
Benzo(a)pyrene	11.9		mg/kg	9.57	--	25
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	9.57	--	25
Dibenzo(a,h)anthracene	ND		mg/kg	9.57	--	25
Benzo(ghi)perylene	ND		mg/kg	9.57	--	25

Project Name: HAFFNER'S-284 WINTER ST. **Lab Number:** L1518191

Project Number: 08-36060B **Report Date:** 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-05 D	Date Collected:	04/27/15 12:50
Client ID:	ENV-9B-12.5'-15.0'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	**0**	Q	40-140
o-Terphenyl	**0**	Q	40-140
2-Fluorobiphenyl	74		40-140
2-Bromonaphthalene	78		40-140

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-06 D	Date Collected:	04/27/15 14:45
Client ID:	ENV-8B-12.5'-15.0'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	05/05/15 02:02		
Analyst:	BS		
Percent Solids:	83%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Yes (Covering the Soil)
Methanol ratio:	1:1 +/- 25%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	304		mg/kg	212	--	50
C9-C12 Aliphatics	4000		mg/kg	212	--	50
C9-C10 Aromatics	2360		mg/kg	212	--	50
C5-C8 Aliphatics, Adjusted	265		mg/kg	212	--	50
C9-C12 Aliphatics, Adjusted	1400		mg/kg	212	--	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	0	Q	70-130
2,5-Dibromotoluene-FID	0	Q	70-130

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-06 D	Date Collected:	04/27/15 14:45
Client ID:	ENV-8B-12.5'-15.0'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	05/08/15 09:34
Analytical Date:	05/21/15 13:44	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	05/09/15
Percent Solids:	83%		

Quality Control Information

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	6750		mg/kg	156	--	20
C19-C36 Aliphatics	861		mg/kg	156	--	20
C11-C22 Aromatics	5610		mg/kg	156	--	20
C11-C22 Aromatics, Adjusted	5200		mg/kg	156	--	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	**0**	Q	40-140
o-Terphenyl	**0**	Q	40-140
2-Fluorobiphenyl	70		40-140
2-Bromonaphthalene	59		40-140

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-07 D	Date Collected:	04/27/15 16:10
Client ID:	ENV-11B-15.0'-17.5'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	05/05/15 02:43		
Analyst:	BS		
Percent Solids:	82%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Yes (Covering the Soil)
Methanol ratio:	1:1 +/- 25%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	850		mg/kg	227	--	50
C9-C12 Aliphatics	5010		mg/kg	227	--	50
C9-C10 Aromatics	2840		mg/kg	227	--	50
C5-C8 Aliphatics, Adjusted	466		mg/kg	227	--	50
C9-C12 Aliphatics, Adjusted	1220		mg/kg	227	--	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	0	Q	70-130
2,5-Dibromotoluene-FID	0	Q	70-130

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-07 D	Date Collected:	04/27/15 16:10
Client ID:	ENV-11B-15.0'-17.5'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	05/08/15 09:34
Analytical Date:	05/20/15 17:40	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	05/09/15
Percent Solids:	82%		

Quality Control Information

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	6240		mg/kg	190	--	25
C19-C36 Aliphatics	877		mg/kg	190	--	25
C11-C22 Aromatics	3820		mg/kg	190	--	25
C11-C22 Aromatics, Adjusted	3320		mg/kg	190	--	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	**0**	Q	40-140
o-Terphenyl	**0**	Q	40-140
2-Fluorobiphenyl	74		40-140
2-Bromonaphthalene	67		40-140

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-08 D	Date Collected:	04/28/15 09:30
Client ID:	ENV-1B-15.0'-17.5'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	05/06/15 21:26		
Analyst:	BS		
Percent Solids:	86%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Yes (Covering the Soil)
Methanol ratio:	1:1 +/- 25%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		mg/kg	81.9	--	20
C9-C12 Aliphatics	442		mg/kg	81.9	--	20
C9-C10 Aromatics	341		mg/kg	81.9	--	20
C5-C8 Aliphatics, Adjusted	ND		mg/kg	81.9	--	20
C9-C12 Aliphatics, Adjusted	ND		mg/kg	81.9	--	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	105		70-130
2,5-Dibromotoluene-FID	75		70-130

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-08 D	Date Collected:	04/28/15 09:30
Client ID:	ENV-1B-15.0'-17.5'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	05/08/15 09:34
Analytical Date:	05/18/15 14:08	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	05/09/15
Percent Solids:	86%		

Quality Control Information

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	68.7		mg/kg	14.5	--	2
C19-C36 Aliphatics	51.0		mg/kg	14.5	--	2
C11-C22 Aromatics	161		mg/kg	14.5	--	2
C11-C22 Aromatics, Adjusted	106		mg/kg	14.5	--	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	66		40-140
o-Terphenyl	111		40-140
2-Fluorobiphenyl	80		40-140
2-Bromonaphthalene	77		40-140

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-09	Date Collected:	04/28/15 10:00
Client ID:	ENV-2B-5.0'-6-5'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	05/06/15 19:25		
Analyst:	BS		
Percent Solids:	82%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	1.3:1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		mg/kg	4.89	--	1
C9-C12 Aliphatics	127		mg/kg	4.89	--	1
C9-C10 Aromatics	113		mg/kg	4.89	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	4.89	--	1
C9-C12 Aliphatics, Adjusted	8.77		mg/kg	4.89	--	1
Benzene	0.280		mg/kg	0.196	--	1
Toluene	ND		mg/kg	0.196	--	1
Ethylbenzene	4.22		mg/kg	0.196	--	1
p/m-Xylene	0.526		mg/kg	0.196	--	1
o-Xylene	0.591		mg/kg	0.196	--	1
Methyl tert butyl ether	ND		mg/kg	0.098	--	1
Naphthalene	3.20		mg/kg	0.391	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	119		70-130
2,5-Dibromotoluene-FID	105		70-130

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-09 D	Date Collected:	04/28/15 10:00
Client ID:	ENV-2B-5.0'-6-5'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	05/08/15 09:34
Analytical Date:	05/16/15 12:34	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	05/09/15
Percent Solids:	82%		

Quality Control Information

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	275		mg/kg	16.0	--	2
C19-C36 Aliphatics	113		mg/kg	16.0	--	2
C11-C22 Aromatics	498		mg/kg	16.0	--	2
C11-C22 Aromatics, Adjusted	462		mg/kg	16.0	--	2
Naphthalene	ND		mg/kg	0.802	--	2
2-Methylnaphthalene	ND		mg/kg	0.802	--	2
Acenaphthylene	2.20		mg/kg	0.802	--	2
Acenaphthene	1.86		mg/kg	0.802	--	2
Fluorene	1.25		mg/kg	0.802	--	2
Phenanthrene	7.22		mg/kg	0.802	--	2
Anthracene	2.46		mg/kg	0.802	--	2
Fluoranthene	2.80		mg/kg	0.802	--	2
Pyrene	6.32		mg/kg	0.802	--	2
Benzo(a)anthracene	2.16		mg/kg	0.802	--	2
Chrysene	2.42		mg/kg	0.802	--	2
Benzo(b)fluoranthene	1.24		mg/kg	0.802	--	2
Benzo(k)fluoranthene	1.22		mg/kg	0.802	--	2
Benzo(a)pyrene	2.62		mg/kg	0.802	--	2
Indeno(1,2,3-cd)Pyrene	1.15		mg/kg	0.802	--	2
Dibenzo(a,h)anthracene	ND		mg/kg	0.802	--	2
Benzo(ghi)perylene	1.27		mg/kg	0.802	--	2

Project Name: HAFFNER'S-284 WINTER ST. **Lab Number:** L1518191

Project Number: 08-36060B **Report Date:** 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-09 D	Date Collected:	04/28/15 10:00
Client ID:	ENV-2B-5.0'-6-5'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	93		40-140
o-Terphenyl	53		40-140
2-Fluorobiphenyl	75		40-140
2-Bromonaphthalene	88		40-140

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-10 D	Date Collected:	04/28/15 11:00
Client ID:	ENV-3B-12.5'-15.0'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	05/07/15 23:45		
Analyst:	BS		
Percent Solids:	83%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	1.3:1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		mg/kg	942	--	200
C9-C12 Aliphatics	5500		mg/kg	942	--	200
C9-C10 Aromatics	3530		mg/kg	942	--	200
C5-C8 Aliphatics, Adjusted	ND		mg/kg	942	--	200
C9-C12 Aliphatics, Adjusted	1470		mg/kg	942	--	200
Benzene	ND		mg/kg	37.7	--	200
Toluene	ND		mg/kg	37.7	--	200
Ethylbenzene	268		mg/kg	37.7	--	200
p/m-Xylene	94.3		mg/kg	37.7	--	200
o-Xylene	134		mg/kg	37.7	--	200
Methyl tert butyl ether	ND		mg/kg	18.8	--	200
Naphthalene	2910		mg/kg	75.4	--	200

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	0	Q	70-130
2,5-Dibromotoluene-FID	0	Q	70-130

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-10 D	Date Collected:	04/28/15 11:00
Client ID:	ENV-3B-12.5'-15.0'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	05/08/15 09:34
Analytical Date:	05/20/15 15:24	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	05/09/15
Percent Solids:	83%		

Quality Control Information

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	12600		mg/kg	1220	--	160
C19-C36 Aliphatics	1990		mg/kg	1220	--	160
C11-C22 Aromatics	12500		mg/kg	1220	--	160
C11-C22 Aromatics, Adjusted	9150		mg/kg	1220	--	160
Naphthalene	1850		mg/kg	61.1	--	160
2-Methylnaphthalene	873		mg/kg	61.1	--	160
Acenaphthylene	ND		mg/kg	61.1	--	160
Acenaphthene	77.2		mg/kg	61.1	--	160
Fluorene	86.9		mg/kg	61.1	--	160
Phenanthrene	237		mg/kg	61.1	--	160
Anthracene	64.7		mg/kg	61.1	--	160
Fluoranthene	82.1		mg/kg	61.1	--	160
Pyrene	102		mg/kg	61.1	--	160
Benzo(a)anthracene	ND		mg/kg	61.1	--	160
Chrysene	ND		mg/kg	61.1	--	160
Benzo(b)fluoranthene	ND		mg/kg	61.1	--	160
Benzo(k)fluoranthene	ND		mg/kg	61.1	--	160
Benzo(a)pyrene	ND		mg/kg	61.1	--	160
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	61.1	--	160
Dibenzo(a,h)anthracene	ND		mg/kg	61.1	--	160
Benzo(ghi)perylene	ND		mg/kg	61.1	--	160

Project Name: HAFFNER'S-284 WINTER ST. **Lab Number:** L1518191

Project Number: 08-36060B **Report Date:** 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-10 D	Date Collected:	04/28/15 11:00
Client ID:	ENV-3B-12.5'-15.0'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	**0**	Q	40-140
o-Terphenyl	**0**	Q	40-140
2-Fluorobiphenyl	72		40-140
2-Bromonaphthalene	73		40-140

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-11 D	Date Collected:	04/28/15 11:42
Client ID:	ENV-4B-2.5'-3.5'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	05/08/15 00:26		
Analyst:	BS		
Percent Solids:	89%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	1.4:1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		mg/kg	902	--	200
C9-C12 Aliphatics	ND		mg/kg	902	--	200
C9-C10 Aromatics	ND		mg/kg	902	--	200
C5-C8 Aliphatics, Adjusted	ND		mg/kg	902	--	200
C9-C12 Aliphatics, Adjusted	ND		mg/kg	902	--	200
Benzene	ND		mg/kg	36.1	--	200
Toluene	ND		mg/kg	36.1	--	200
Ethylbenzene	ND		mg/kg	36.1	--	200
p/m-Xylene	ND		mg/kg	36.1	--	200
o-Xylene	ND		mg/kg	36.1	--	200
Methyl tert butyl ether	ND		mg/kg	18.0	--	200
Naphthalene	1240		mg/kg	72.1	--	200

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	0	Q	70-130
2,5-Dibromotoluene-FID	0	Q	70-130

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-11 D	Date Collected:	04/28/15 11:42
Client ID:	ENV-4B-2.5'-3.5'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	05/08/15 09:34
Analytical Date:	05/20/15 19:11	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	05/09/15
Percent Solids:	89%		

Quality Control Information

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	309		mg/kg	220	--	30
C19-C36 Aliphatics	644		mg/kg	220	--	30
C11-C22 Aromatics	5610		mg/kg	220	--	30
C11-C22 Aromatics, Adjusted	4590		mg/kg	220	--	30
Naphthalene	293		mg/kg	11.0	--	30
2-Methylnaphthalene	11.8		mg/kg	11.0	--	30
Acenaphthylene	19.4		mg/kg	11.0	--	30
Acenaphthene	21.9		mg/kg	11.0	--	30
Fluorene	40.9		mg/kg	11.0	--	30
Phenanthrene	162		mg/kg	11.0	--	30
Anthracene	65.6		mg/kg	11.0	--	30
Fluoranthene	77.2		mg/kg	11.0	--	30
Pyrene	110		mg/kg	11.0	--	30
Benzo(a)anthracene	32.0		mg/kg	11.0	--	30
Chrysene	50.0		mg/kg	11.0	--	30
Benzo(b)fluoranthene	30.6		mg/kg	11.0	--	30
Benzo(k)fluoranthene	21.7		mg/kg	11.0	--	30
Benzo(a)pyrene	33.5		mg/kg	11.0	--	30
Indeno(1,2,3-cd)Pyrene	20.1		mg/kg	11.0	--	30
Dibenzo(a,h)anthracene	ND		mg/kg	11.0	--	30
Benzo(ghi)perylene	21.6		mg/kg	11.0	--	30

Project Name: HAFFNER'S-284 WINTER ST. **Lab Number:** L1518191

Project Number: 08-36060B **Report Date:** 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-11 D	Date Collected:	04/28/15 11:42
Client ID:	ENV-4B-2.5'-3.5'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	**0**	Q	40-140
o-Terphenyl	**0**	Q	40-140
2-Fluorobiphenyl	74		40-140
2-Bromonaphthalene	76		40-140

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-12	Date Collected:	04/28/15 12:30
Client ID:	ENV-10B-0.0'-2.5'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	05/06/15 18:45		
Analyst:	BS		
Percent Solids:	97%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	1:1 +/- 25%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	3.63		mg/kg	2.32	--	1
C9-C12 Aliphatics	ND		mg/kg	2.32	--	1
C9-C10 Aromatics	ND		mg/kg	2.32	--	1
C5-C8 Aliphatics, Adjusted	3.63		mg/kg	2.32	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	2.32	--	1
Benzene	ND		mg/kg	0.093	--	1
Toluene	ND		mg/kg	0.093	--	1
Ethylbenzene	ND		mg/kg	0.093	--	1
p/m-Xylene	ND		mg/kg	0.093	--	1
o-Xylene	ND		mg/kg	0.093	--	1
Methyl tert butyl ether	ND		mg/kg	0.046	--	1
Naphthalene	ND		mg/kg	0.185	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	118		70-130
2,5-Dibromotoluene-FID	119		70-130

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-12	Date Collected:	04/28/15 12:30
Client ID:	ENV-10B-0.0'-2.5'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	05/08/15 09:34
Analytical Date:	05/16/15 18:34	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	05/09/15
Percent Solids:	97%		

Quality Control Information

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		mg/kg	6.66	--	1
C19-C36 Aliphatics	ND		mg/kg	6.66	--	1
C11-C22 Aromatics	ND		mg/kg	6.66	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.66	--	1
Naphthalene	ND		mg/kg	0.333	--	1
2-Methylnaphthalene	ND		mg/kg	0.333	--	1
Acenaphthylene	ND		mg/kg	0.333	--	1
Acenaphthene	ND		mg/kg	0.333	--	1
Fluorene	ND		mg/kg	0.333	--	1
Phenanthrene	ND		mg/kg	0.333	--	1
Anthracene	ND		mg/kg	0.333	--	1
Fluoranthene	ND		mg/kg	0.333	--	1
Pyrene	ND		mg/kg	0.333	--	1
Benzo(a)anthracene	ND		mg/kg	0.333	--	1
Chrysene	ND		mg/kg	0.333	--	1
Benzo(b)fluoranthene	ND		mg/kg	0.333	--	1
Benzo(k)fluoranthene	ND		mg/kg	0.333	--	1
Benzo(a)pyrene	ND		mg/kg	0.333	--	1
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.333	--	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.333	--	1
Benzo(ghi)perylene	ND		mg/kg	0.333	--	1

Project Name: HAFFNER'S-284 WINTER ST. **Lab Number:** L1518191

Project Number: 08-36060B **Report Date:** 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-12	Date Collected:	04/28/15 12:30
Client ID:	ENV-10B-0.0'-2.5'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	61		40-140
o-Terphenyl	61		40-140
2-Fluorobiphenyl	70		40-140
2-Bromonaphthalene	71		40-140

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-13 D	Date Collected:	04/28/15 13:35
Client ID:	ENV-12B-15.0'-17.5'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	05/05/15 04:04		
Analyst:	BS		
Percent Solids:	89%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Yes (Covering the Soil)
Methanol ratio:	1:1 +/- 25%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	559		mg/kg	319	--	100
C9-C12 Aliphatics	3560		mg/kg	319	--	100
C9-C10 Aromatics	2090		mg/kg	319	--	100
C5-C8 Aliphatics, Adjusted	384		mg/kg	319	--	100
C9-C12 Aliphatics, Adjusted	1230		mg/kg	319	--	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	0	Q	70-130
2,5-Dibromotoluene-FID	0	Q	70-130

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-13 D	Date Collected:	04/28/15 13:35
Client ID:	ENV-12B-15.0'-17.5'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	05/08/15 09:34
Analytical Date:	05/21/15 20:39	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	05/09/15
Percent Solids:	89%		

Quality Control Information

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	13300		mg/kg	567	--	80
C19-C36 Aliphatics	2020		mg/kg	567	--	80
C11-C22 Aromatics	7010		mg/kg	567	--	80
C11-C22 Aromatics, Adjusted	5270		mg/kg	567	--	80

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	40-140
o-Terphenyl	0	Q	40-140
2-Fluorobiphenyl	63		40-140
2-Bromonaphthalene	66		40-140

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-14 D	Date Collected:	04/28/15 14:30
Client ID:	ENV-13B-17.5'-20.0'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	05/07/15 03:28		
Analyst:	BS		
Percent Solids:	83%		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	1.4:1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		mg/kg	506	--	100
C9-C12 Aliphatics	4230		mg/kg	506	--	100
C9-C10 Aromatics	1450		mg/kg	506	--	100
C5-C8 Aliphatics, Adjusted	ND		mg/kg	506	--	100
C9-C12 Aliphatics, Adjusted	2280		mg/kg	506	--	100
Benzene	ND		mg/kg	20.3	--	100
Toluene	ND		mg/kg	20.3	--	100
Ethylbenzene	160		mg/kg	20.3	--	100
p/m-Xylene	227		mg/kg	20.3	--	100
o-Xylene	105		mg/kg	20.3	--	100
Methyl tert butyl ether	ND		mg/kg	10.1	--	100
Naphthalene	1940		mg/kg	40.5	--	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	0	Q	70-130
2,5-Dibromotoluene-FID	0	Q	70-130

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-14 D	Date Collected:	04/28/15 14:30
Client ID:	ENV-13B-17.5'-20.0'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	98,EPH-04-1.1	Extraction Date:	05/08/15 09:34
Analytical Date:	05/21/15 20:07	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	05/09/15
Percent Solids:	83%		

Quality Control Information

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	904		mg/kg	637	--	80
C19-C36 Aliphatics	701		mg/kg	637	--	80
C11-C22 Aromatics	18200		mg/kg	637	--	80
C11-C22 Aromatics, Adjusted	15600		mg/kg	637	--	80
Naphthalene	783		mg/kg	31.9	--	80
2-Methylnaphthalene	714		mg/kg	31.9	--	80
Acenaphthylene	43.2		mg/kg	31.9	--	80
Acenaphthene	93.8		mg/kg	31.9	--	80
Fluorene	116		mg/kg	31.9	--	80
Phenanthrene	373		mg/kg	31.9	--	80
Anthracene	57.8		mg/kg	31.9	--	80
Fluoranthene	93.5		mg/kg	31.9	--	80
Pyrene	133		mg/kg	31.9	--	80
Benzo(a)anthracene	43.3		mg/kg	31.9	--	80
Chrysene	55.1		mg/kg	31.9	--	80
Benzo(b)fluoranthene	ND		mg/kg	31.9	--	80
Benzo(k)fluoranthene	ND		mg/kg	31.9	--	80
Benzo(a)pyrene	39.2		mg/kg	31.9	--	80
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	31.9	--	80
Dibenzo(a,h)anthracene	ND		mg/kg	31.9	--	80
Benzo(ghi)perylene	ND		mg/kg	31.9	--	80

Project Name: HAFFNER'S-284 WINTER ST. **Lab Number:** L1518191

Project Number: 08-36060B **Report Date:** 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-14 D	Date Collected:	04/28/15 14:30
Client ID:	ENV-13B-17.5'-20.0'	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Extractable Petroleum Hydrocarbons - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	**0**	Q	40-140
o-Terphenyl	**0**	Q	40-140
2-Fluorobiphenyl	78		40-140
2-Bromonaphthalene	75		40-140

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B
Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID:	L1518191-15	Date Collected:	04/22/15 00:00
Client ID:	TRIP BLANK	Date Received:	04/29/15
Sample Location:	HAVERHILL, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	05/06/15 15:24		
Analyst:	BS		
Percent Solids:	Results are reported on an 'AS RECEIVED' basis.		

Quality Control Information

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Covering the Soil
Methanol ratio:	1:1 +/- 25%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		mg/kg	2.67	--	1
C9-C12 Aliphatics	ND		mg/kg	2.67	--	1
C9-C10 Aromatics	ND		mg/kg	2.67	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	2.67	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	2.67	--	1
Benzene	ND		mg/kg	0.107	--	1
Toluene	ND		mg/kg	0.107	--	1
Ethylbenzene	ND		mg/kg	0.107	--	1
p/m-Xylene	ND		mg/kg	0.107	--	1
o-Xylene	ND		mg/kg	0.107	--	1
Methyl tert butyl ether	ND		mg/kg	0.053	--	1
Naphthalene	ND		mg/kg	0.213	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	115		70-130
2,5-Dibromotoluene-FID	115		70-130

Project Name: HAFFNER'S-284 WINTER ST. **Lab Number:** L1518191

Project Number: 08-36060B **Report Date:** 08/07/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 100,VPH-04-1.1
Analytical Date: 05/04/15 11:28
Analyst: BS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Petroleum Hydrocarbons - Westborough Lab for sample(s): 01-03,06-07,13 Batch: WG781965-3					
C5-C8 Aliphatics	ND		mg/kg	2.67	--
C9-C12 Aliphatics	ND		mg/kg	2.67	--
C9-C10 Aromatics	ND		mg/kg	2.67	--
C5-C8 Aliphatics, Adjusted	ND		mg/kg	2.67	--
C9-C12 Aliphatics, Adjusted	ND		mg/kg	2.67	--
Benzene	ND		mg/kg	0.107	--
Toluene	ND		mg/kg	0.107	--
Ethylbenzene	ND		mg/kg	0.107	--
p/m-Xylene	ND		mg/kg	0.107	--
o-Xylene	ND		mg/kg	0.107	--
Methyl tert butyl ether	ND		mg/kg	0.053	--
Naphthalene	ND		mg/kg	0.213	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	94		70-130
2,5-Dibromotoluene-FID	91		70-130

Project Name: HAFFNER'S-284 WINTER ST. **Lab Number:** L1518191

Project Number: 08-36060B **Report Date:** 08/07/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 100,VPH-04-1.1
Analytical Date: 05/06/15 11:21
Analyst: BS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Petroleum Hydrocarbons - Westborough Lab for sample(s): 04-05,08-09,12,14-15 Batch: WG782859-3					
C5-C8 Aliphatics	ND		mg/kg	2.67	--
C9-C12 Aliphatics	ND		mg/kg	2.67	--
C9-C10 Aromatics	ND		mg/kg	2.67	--
C5-C8 Aliphatics, Adjusted	ND		mg/kg	2.67	--
C9-C12 Aliphatics, Adjusted	ND		mg/kg	2.67	--
Benzene	ND		mg/kg	0.107	--
Toluene	ND		mg/kg	0.107	--
Ethylbenzene	ND		mg/kg	0.107	--
p/m-Xylene	ND		mg/kg	0.107	--
o-Xylene	ND		mg/kg	0.107	--
Methyl tert butyl ether	ND		mg/kg	0.053	--
Naphthalene	ND		mg/kg	0.213	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	106		70-130
2,5-Dibromotoluene-FID	107		70-130

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1518191
Report Date: 08/07/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 98,EPH-04-1.1
Analytical Date: 05/16/15 16:16
Analyst: SR

Extraction Method: EPA 3546
Extraction Date: 05/08/15 09:34
Cleanup Method: EPH-04-1
Cleanup Date: 05/09/15

Parameter	Result	Qualifier	Units	RL	MDL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 01-14 Batch: WG783172-1					
C9-C18 Aliphatics	ND		mg/kg	6.33	--
C19-C36 Aliphatics	ND		mg/kg	6.33	--
C11-C22 Aromatics	ND		mg/kg	6.33	--
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.33	--
Naphthalene	ND		mg/kg	0.317	--
2-Methylnaphthalene	ND		mg/kg	0.317	--
Acenaphthylene	ND		mg/kg	0.317	--
Acenaphthene	ND		mg/kg	0.317	--
Fluorene	ND		mg/kg	0.317	--
Phenanthrene	ND		mg/kg	0.317	--
Anthracene	ND		mg/kg	0.317	--
Fluoranthene	ND		mg/kg	0.317	--
Pyrene	ND		mg/kg	0.317	--
Benzo(a)anthracene	ND		mg/kg	0.317	--
Chrysene	ND		mg/kg	0.317	--
Benzo(b)fluoranthene	ND		mg/kg	0.317	--
Benzo(k)fluoranthene	ND		mg/kg	0.317	--
Benzo(a)pyrene	ND		mg/kg	0.317	--
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.317	--
Dibenzo(a,h)anthracene	ND		mg/kg	0.317	--
Benzo(ghi)perylene	ND		mg/kg	0.317	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	77		40-140
o-Terphenyl	75		40-140
2-Fluorobiphenyl	86		40-140
2-Bromonaphthalene	86		40-140

Project Name: HAFFNER'S-284 WINTER ST. **Lab Number:** L1518191

Project Number: 08-36060B **Report Date:** 08/07/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 100,VPH-04-1.1
Analytical Date: 05/07/15 11:19
Analyst: BS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Petroleum Hydrocarbons - Westborough Lab for sample(s): 10-11 Batch: WG783217-3					
C5-C8 Aliphatics	ND		mg/kg	2.67	--
C9-C12 Aliphatics	ND		mg/kg	2.67	--
C9-C10 Aromatics	ND		mg/kg	2.67	--
C5-C8 Aliphatics, Adjusted	ND		mg/kg	2.67	--
C9-C12 Aliphatics, Adjusted	ND		mg/kg	2.67	--
Benzene	ND		mg/kg	0.107	--
Toluene	ND		mg/kg	0.107	--
Ethylbenzene	ND		mg/kg	0.107	--
p/m-Xylene	ND		mg/kg	0.107	--
o-Xylene	ND		mg/kg	0.107	--
Methyl tert butyl ether	ND		mg/kg	0.053	--
Naphthalene	ND		mg/kg	0.213	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	82		70-130
2,5-Dibromotoluene-FID	79		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1518191
Report Date: 08/07/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-03,06-07,13 Batch: WG781965-1 WG781965-2								
C5-C8 Aliphatics	113		117		70-130	3		25
C9-C12 Aliphatics	112		115		70-130	3		25
C9-C10 Aromatics	107		110		70-130	3		25
Benzene	116		121		70-130	4		25
Toluene	116		120		70-130	3		25
Ethylbenzene	117		121		70-130	3		25
p/m-Xylene	117		121		70-130	3		25
o-Xylene	117		121		70-130	3		25
Methyl tert butyl ether	118		124		70-130	5		25
Naphthalene	99		104		70-130	5		25
1,2,4-Trimethylbenzene	107		110		70-130	3		25
Pentane	107		113		70-130	5		25
2-Methylpentane	115		119		70-130	3		25
2,2,4-Trimethylpentane	115		119		70-130	3		25
n-Nonane	112		115		30-130	3		25
n-Decane	110		112		70-130	2		25
n-Butylcyclohexane	113		116		70-130	3		25

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1518191
Report Date: 08/07/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-03,06-07,13 Batch: WG781965-1 WG781965-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,5-Dibromotoluene-PID	105		103		70-130
2,5-Dibromotoluene-FID	102		100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1518191
Report Date: 08/07/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 04-05,08-09,12,14-15 Batch: WG782859-1 WG782859-2								
C5-C8 Aliphatics	80		74		70-130	8		25
C9-C12 Aliphatics	91		89		70-130	2		25
C9-C10 Aromatics	89		89		70-130	1		25
Benzene	90		86		70-130	5		25
Toluene	87		85		70-130	3		25
Ethylbenzene	92		90		70-130	2		25
p/m-Xylene	91		91		70-130	1		25
o-Xylene	90		89		70-130	1		25
Methyl tert butyl ether	99		88		70-130	12		25
Naphthalene	96		85		70-130	12		25
1,2,4-Trimethylbenzene	89		89		70-130	1		25
Pentane	76		74		70-130	3		25
2-Methylpentane	83		74		70-130	11		25
2,2,4-Trimethylpentane	89		80		70-130	10		25
n-Nonane	88		85		30-130	3		25
n-Decane	89		87		70-130	1		25
n-Butylcyclohexane	96		94		70-130	2		25

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1518191
Report Date: 08/07/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 04-05,08-09,12,14-15 Batch: WG782859-1 WG782859-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,5-Dibromotoluene-PID	99		89		70-130
2,5-Dibromotoluene-FID	103		89		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1518191
Report Date: 08/07/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-14 Batch: WG783172-2 WG783172-3								
C9-C18 Aliphatics	71		71		40-140	0		25
C19-C36 Aliphatics	60		80		40-140	**29**	Q	25
C11-C22 Aromatics	64		75		40-140	16		25
Naphthalene	64		69		40-140	8		25
2-Methylnaphthalene	67		73		40-140	9		25
Acenaphthylene	60		66		40-140	10		25
Acenaphthene	67		72		40-140	7		25
Fluorene	65		73		40-140	12		25
Phenanthrene	67		74		40-140	10		25
Anthracene	72		80		40-140	11		25
Fluoranthene	67		75		40-140	11		25
Pyrene	69		76		40-140	10		25
Benzo(a)anthracene	64		73		40-140	13		25
Chrysene	68		77		40-140	12		25
Benzo(b)fluoranthene	65		75		40-140	14		25
Benzo(k)fluoranthene	63		73		40-140	15		25
Benzo(a)pyrene	65		75		40-140	14		25
Indeno(1,2,3-cd)Pyrene	54		62		40-140	14		25
Dibenzo(a,h)anthracene	62		72		40-140	15		25
Benzo(ghi)perylene	65		75		40-140	14		25
Nonane (C9)	56		52		30-140	7		25

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1518191
Report Date: 08/07/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-14 Batch: WG783172-2 WG783172-3								
Decane (C10)	65		62		40-140	5		25
Dodecane (C12)	70		70		40-140	0		25
Tetradecane (C14)	75		75		40-140	0		25
Hexadecane (C16)	78		79		40-140	1		25
Octadecane (C18)	80		81		40-140	1		25
Nonadecane (C19)	82		83		40-140	1		25
Eicosane (C20)	82		83		40-140	1		25
Docosane (C22)	82		83		40-140	1		25
Tetracosane (C24)	82		83		40-140	1		25
Hexacosane (C26)	82		84		40-140	2		25
Octacosane (C28)	82		83		40-140	1		25
Triacontane (C30)	82		84		40-140	2		25
Hexatriacontane (C36)	78		80		40-140	3		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	75		67		40-140
o-Terphenyl	64		75		40-140
2-Fluorobiphenyl	79		80		40-140
2-Bromonaphthalene	81		81		40-140
% Naphthalene Breakthrough	0		0		
% 2-Methylnaphthalene Breakthrough	0		0		

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1518191
Report Date: 08/07/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 10-11 Batch: WG783217-1 WG783217-2								
C5-C8 Aliphatics	86		94		70-130	9		25
C9-C12 Aliphatics	89		98		70-130	10		25
C9-C10 Aromatics	79		88		70-130	11		25
Benzene	86		94		70-130	10		25
Toluene	85		94		70-130	10		25
Ethylbenzene	86		95		70-130	10		25
p/m-Xylene	86		95		70-130	10		25
o-Xylene	84		93		70-130	10		25
Methyl tert butyl ether	82		88		70-130	7		25
Naphthalene	79		85		70-130	8		25
1,2,4-Trimethylbenzene	79		88		70-130	10		25
Pentane	83		90		70-130	8		25
2-Methylpentane	89		96		70-130	8		25
2,2,4-Trimethylpentane	89		97		70-130	9		25
n-Nonane	89		98		30-130	10		25
n-Decane	88		97		70-130	10		25
n-Butylcyclohexane	88		98		70-130	11		25

Lab Control Sample Analysis
Batch Quality Control

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1518191
Report Date: 08/07/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 10-11 Batch: WG783217-1 WG783217-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,5-Dibromotoluene-PID	83		92		70-130
2,5-Dibromotoluene-FID	81		90		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID: L1518191-01
Client ID: ENV-5B-12.5'-15.0'
Sample Location: HAVERHILL, MA
Matrix: Soil

Date Collected: 04/27/15 09:56
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.3		%	0.100	NA	1	-	04/30/15 05:02	30,2540G	RT

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID: L1518191-02
Client ID: ENV-6B-6.0'-7.0'
Sample Location: HAVERHILL, MA
Matrix: Soil

Date Collected: 04/27/15 11:00
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.8		%	0.100	NA	1	-	04/30/15 05:02	30,2540G	RT

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID: L1518191-03
Client ID: ENV-7B-10.0'-11.0'
Sample Location: HAVERHILL, MA
Matrix: Soil

Date Collected: 04/27/15 11:45
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.2		%	0.100	NA	1	-	04/30/15 05:02	30,2540G	RT

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID: L1518191-04
Client ID: DUP
Sample Location: HAVERHILL, MA
Matrix: Soil

Date Collected: 04/27/15 12:00
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.1		%	0.100	NA	1	-	04/30/15 05:02	30,2540G	RT

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID: L1518191-05
Client ID: ENV-9B-12.5'-15.0'
Sample Location: HAVERHILL, MA
Matrix: Soil

Date Collected: 04/27/15 12:50
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.8		%	0.100	NA	1	-	04/30/15 05:02	30,2540G	RT

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID: L1518191-06
Client ID: ENV-8B-12.5'-15.0'
Sample Location: HAVERHILL, MA
Matrix: Soil

Date Collected: 04/27/15 14:45
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.8		%	0.100	NA	1	-	04/30/15 05:02	30,2540G	RT

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID: L1518191-07
Client ID: ENV-11B-15.0'-17.5'
Sample Location: HAVERHILL, MA
Matrix: Soil

Date Collected: 04/27/15 16:10
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.4		%	0.100	NA	1	-	04/30/15 05:02	30,2540G	RT

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID: L1518191-08
Client ID: ENV-1B-15.0'-17.5'
Sample Location: HAVERHILL, MA
Matrix: Soil

Date Collected: 04/28/15 09:30
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.4		%	0.100	NA	1	-	04/30/15 05:02	30,2540G	RT

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID: L1518191-09
Client ID: ENV-2B-5.0'-6-5'
Sample Location: HAVERHILL, MA
Matrix: Soil

Date Collected: 04/28/15 10:00
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.7		%	0.100	NA	1	-	04/30/15 05:02	30,2540G	RT

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID: L1518191-10
Client ID: ENV-3B-12.5'-15.0'
Sample Location: HAVERHILL, MA
Matrix: Soil

Date Collected: 04/28/15 11:00
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.5		%	0.100	NA	1	-	04/30/15 05:02	30,2540G	RT

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID: L1518191-11
Client ID: ENV-4B-2.5'-3.5'
Sample Location: HAVERHILL, MA
Matrix: Soil

Date Collected: 04/28/15 11:42
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.0		%	0.100	NA	1	-	04/30/15 05:02	30,2540G	RT

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID: L1518191-12
Client ID: ENV-10B-0.0'-2.5'
Sample Location: HAVERHILL, MA
Matrix: Soil

Date Collected: 04/28/15 12:30
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.8		%	0.100	NA	1	-	04/30/15 05:02	30,2540G	RT

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID: L1518191-13
Client ID: ENV-12B-15.0'-17.5'
Sample Location: HAVERHILL, MA
Matrix: Soil

Date Collected: 04/28/15 13:35
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.0		%	0.100	NA	1	-	04/30/15 05:02	30,2540G	RT

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1518191
Report Date: 08/07/15

SAMPLE RESULTS

Lab ID: L1518191-14
Client ID: ENV-13B-17.5'-20.0'
Sample Location: HAVERHILL, MA
Matrix: Soil

Date Collected: 04/28/15 14:30
Date Received: 04/29/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.4		%	0.100	NA	1	-	04/30/15 05:02	30,2540G	RT

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1518191
Report Date: 08/07/15

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 04/30/2015 02:26

Cooler Information	Custody Seal
Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1518191-01A	Vial MeOH preserved	A	NA	4.0	Y	Absent	VPH-10(28)
L1518191-01B	Glass 250ml/8oz unpreserved	A	NA	4.0	Y	Absent	EPH-10(14),TS(7)
L1518191-02A	Vial MeOH preserved	A	NA	4.0	Y	Absent	VPH-DELUX-10(28)
L1518191-02B	Glass 120ml/4oz unpreserved	A	NA	4.0	Y	Absent	EPH-DELUX-10(14)
L1518191-02C	Plastic 2oz unpreserved for TS	A	NA	4.0	Y	Absent	TS(7)
L1518191-03A	Vial MeOH preserved	A	NA	4.0	Y	Absent	VPH-DELUX-10(28)
L1518191-03B	Glass 120ml/4oz unpreserved	A	NA	4.0	Y	Absent	EPH-DELUX-10(14)
L1518191-03C	Plastic 2oz unpreserved for TS	A	NA	4.0	Y	Absent	TS(7)
L1518191-04A	Vial MeOH preserved	A	NA	4.0	Y	Absent	VPH-DELUX-10(28)
L1518191-04B	Glass 120ml/4oz unpreserved	A	NA	4.0	Y	Absent	EPH-DELUX-10(14)
L1518191-04C	Plastic 2oz unpreserved for TS	A	NA	4.0	Y	Absent	TS(7)
L1518191-05A	Vial MeOH preserved	A	NA	4.0	Y	Absent	VPH-10(28)
L1518191-05B	Glass 250ml/8oz unpreserved	A	NA	4.0	Y	Absent	TS(7),EPH-DELUX-10(14)
L1518191-06A	Vial MeOH preserved	A	NA	4.0	Y	Absent	VPH-10(28)
L1518191-06B	Glass 250ml/8oz unpreserved	A	NA	4.0	Y	Absent	EPH-10(14),TS(7)
L1518191-07A	Vial MeOH preserved	A	NA	4.0	Y	Absent	VPH-10(28)
L1518191-07B	Glass 250ml/8oz unpreserved	A	NA	4.0	Y	Absent	EPH-10(14),TS(7)
L1518191-08A	Vial MeOH preserved	A	NA	4.0	Y	Absent	VPH-10(28)
L1518191-08B	Glass 250ml/8oz unpreserved	A	NA	4.0	Y	Absent	EPH-10(14),TS(7)
L1518191-09A	Vial MeOH preserved	A	NA	4.0	Y	Absent	VPH-DELUX-10(28)
L1518191-09B	Glass 120ml/4oz unpreserved	A	NA	4.0	Y	Absent	EPH-DELUX-10(14)
L1518191-09C	Plastic 2oz unpreserved for TS	A	NA	4.0	Y	Absent	TS(7)
L1518191-10A	Vial MeOH preserved	A	NA	4.0	Y	Absent	VPH-DELUX-10(28)
L1518191-10A1	Vial MeOH preserved	A	NA	4.0	Y	Absent	VPH-DELUX-10(28)
L1518191-10A2	Vial MeOH preserved	A	NA	4.0	Y	Absent	VPH-DELUX-10(28)
L1518191-10B	Glass 120ml/4oz unpreserved	A	NA	4.0	Y	Absent	EPH-DELUX-10(14)
L1518191-10B1	Glass 120ml/4oz unpreserved	A	NA	4.0	Y	Absent	EPH-DELUX-10(14)

*Values in parentheses indicate holding time in days

Project Name: HAFFNER'S-284 WINTER ST.
Project Number: 08-36060B

Lab Number: L1518191
Report Date: 08/07/15

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1518191-10B2	Glass 120ml/4oz unpreserved	A	NA	4.0	Y	Absent	EPH-DELUX-10(14)
L1518191-10F	Plastic 2oz unpreserved for TS	A	NA	4.0	Y	Absent	TS(7)
L1518191-10F1	Plastic 2oz unpreserved for TS	A	NA	4.0	Y	Absent	TS(7)
L1518191-10F2	Plastic 2oz unpreserved for TS	A	NA	4.0	Y	Absent	TS(7)
L1518191-11A	Vial MeOH preserved	A	NA	4.0	Y	Absent	VPH-DELUX-10(28)
L1518191-11B	Glass 250ml/8oz unpreserved	A	NA	4.0	Y	Absent	EPH-DELUX-10(14)
L1518191-11C	Plastic 2oz unpreserved for TS	A	NA	4.0	Y	Absent	TS(7)
L1518191-12A	Vial MeOH preserved	A	NA	4.0	Y	Absent	VPH-DELUX-10(28)
L1518191-12B	Glass 250ml/8oz unpreserved	A	NA	4.0	Y	Absent	EPH-DELUX-10(14)
L1518191-12C	Plastic 2oz unpreserved for TS	A	NA	4.0	Y	Absent	TS(7)
L1518191-13A	Vial MeOH preserved	A	NA	4.0	Y	Absent	VPH-10(28)
L1518191-13B	Plastic 2oz unpreserved for TS	A	NA	4.0	Y	Absent	EPH-10(14),TS(7)
L1518191-14A	Vial MeOH preserved	A	NA	4.0	Y	Absent	VPH-DELUX-10(28)
L1518191-14D	Glass 120ml/4oz unpreserved	A	NA	4.0	Y	Absent	EPH-DELUX-10(14)
L1518191-14F	Plastic 2oz unpreserved for TS	A	NA	4.0	Y	Absent	TS(7)
L1518191-15A	Vial MeOH preserved	A	NA	4.0	Y	Absent	VPH-DELUX-10(28)

*Values in parentheses indicate holding time in days

Project Name:	HAFFNER'S-284 WINTER ST.	**Lab Number:**	L1518191
Project Number:	08-36060B	**Report Date:**	08/07/15

GLOSSARY

Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

Report Format: Data Usability Report

Project Name:	HAFFNER'S-284 WINTER ST.	**Lab Number:**	L1518191
Project Number:	08-36060B	**Report Date:**	08/07/15

Data Qualifiers

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: HAFFNER'S-284 WINTER ST. **Lab Number:** L1518191
Project Number: 08-36060B **Report Date:** 08/07/15

REFERENCES

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

98 Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), MassDEP, May 2004, Revision 1.1 with QC Requirements & Performance Standards for the Analysis of EPH under the Massachusetts Contingency Plan, WSC-CAM-IVB, July 2010.

100 Method for the Determination of Volatile Petroleum Hydrocarbons (VPH), MassDEP, May 2004, Revision 1.1 with QC Requirements & Performance Standards for the Analysis of VPH under the Massachusetts Contingency Plan, WSC-CAM-IVA, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised December 16, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA 2540D: TSS
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F,**
EPA 353.2: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Serial_No: 0807151742

CHAIN OF CUSTODY

PAGE 1 OF 3

Date Rec'd in Lab: 4/29/15

ALPHA Job #: L1518191

ALPHA ANALYTICAL Worldwide Class Chemistry
8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Client Information

Client: ENVIRON
Address: 3 Carlisle Rd, Suite 210, Westford, MA 01886
Phone: 603-703-5534
Email: jnoble@environcorp.com

Project Information

Project Name: Haffner's - 284 Winter St.
Project Location: Haverhill, MA
Project #: 08-36060B
Project Manager: John Noble
ALPHA Quote #: 2015090

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 5/13/15

Report Information - Data Deliverables

☑ ADEx ☑ EMAIL

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements & Project Information Requirements

☑ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☑ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☑ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program _____ Criteria _____

Additional Project Information:

In accordance with Master Service Agreement dated 11/15/13

ANALYSIS: VOC: ☐ 8260 ☐ 624 ☐ 524.2; SVOC: ☐ ABN ☐ PAH; METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15; METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13; EPH: ☑ Ranges & Targets ☐ Ranges Only (EPH-04-1); VPH: ☑ Ranges & Targets ☐ Ranges Only (VPH-04-1); ☐ PCB ☐ PEST; TPH: ☐ Quant Only ☐ Fingerprint; Total Solids; EPH-04-1 (Ranges Only); Petroleum Hydrocarbon TDS TPH by GC/FID - EPA 8015D-Modified; Alkylated PAHs by EPA 8270D SIM-Modified; PIANO by 8260B (H); PIANO by 8260B (L); VPH-04-1 (Ranges Only)

SAMPLE INFO: Filtration ☐ Field ☐ Lab to do; Preservation ☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	VOC	SVOC	METALS	METALS	EPH	VPH	PCB	TPH	Total Solids	EPH-04-1	Petroleum Hydrocarbon TDS TPH by GC/FID	Alkylated PAHs by EPA 8270D SIM-Modified	PIANO by 8260B (H)	PIANO by 8260B (L)	VPH-04-1 (Ranges Only)	Sample Comments	TOTAL # BOTTLES
08968-01	ENV-5B-12.5'-15.0'	4/27/15	0956	S	MSC								X	X			X		X			3
02	ENV-6B-6.0'-7.0'	4/27/15	1100	S	MSC					X	X		X									3
03	ENV-7B-10.0'-11.0'	4/27/15	1145	S	MSC					X	X		X									3
04	DUP	4/27/15	1200	S	MSC					X	X		X									3
05	ENV-9B-12.5'-15.0'	4/27/15	1250	S	MSC					X			X	~~X~~ NC			X		X			3
06	ENV-8B-12.5'-15.0'	4/27/15	1445	S	MSC								X	X			X		X			3
07	ENV-11B-15.0'-17.5'	4/27/15	1610	S	MSC								X	X			X		X			3
08	ENV-1B-15.0'-17.5'	4/28/15	0930	S	MSC								X	X			X		X			3
09	ENV-2B-5.0'-6.5'	4/28/15	1000	S	MSC					X	X		X				~~X~~ NC					3
10	ENV-3B-12.5'-15.0'	4/28/15	1100	S	MSC					X	X		X				X				MS/MSD for EPH/VPH ONLY	9
					Container Type					A	V			A	A	A	V	V				
					Preservative					A	F			A	A	A	F	DI				

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO_3
D= H_2SO_4
E= NaOH
F= MeOH
G= $NaHSO_4$
H = $Na_2S_2O_3$
I= Ascorbic Acid
J = NH_4Cl
K= Zn Acetate
O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	4/29/15 1355	[signature] AAL	4/29/15 1355
[signature]	4/29/15 1730	Willie McClendon	4/29/15 1730

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

CHAIN OF CUSTODY

PAGE 2 OF 3

Serial_No:08071517:13

Date Rec'd in Lab: 4/29/15

ALPHA Job #: L1518191

ALPHA ANALYTICAL — World Class Chemistry
8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Client Information

Client: ENVIRON
Address: 3 Carlisle Rd, Suite 210, Westford, MA 01886
Phone: 603-703-5534
Email: jnoble@environcorp.com

Project Information

Project Name: Hafner's - 284 Winter St
Project Location: Haverhill, MA
Project #: 08-36060B
Project Manager: John Noble
ALPHA Quote #: 2015090

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 5/13/15

Report Information - Data Deliverables

☒ ADEx ☒ EMAIL

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements & Project Information Requirements

☒ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☒ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☒ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program _____ Criteria _____

Additional Project Information:

In accordance with Master Service Agreement dated 11/15/13

ANALYSIS: VOC: ☐ 8260 ☐ 624 ☐ 524.2; SVOC: ☐ ABN ☐ PAH; METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15; METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13; EPH: ☒ Ranges & Targets ☐ Ranges Only; VPH: ☒ Ranges & Targets ☐ Ranges Only; ☐ PCB ☐ PEST; TPH: Fragment Only ☐ Fingerprint

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	VOC	SVOC	METALS	METALS	EPH	VPH	PCB	TPH	EPH-04-1 (Ranges Only)	Petroleum Hydrocarbon by GC/FID-EPA Pub. 70 TPH	Alkylated PAHs by EPA P2310-SIM-Modified	PIANO by 8260B (H)	~~PIANO by 8260B (L)~~	VPH-04-1 (Ranges Only)	Sample Comments	TOTAL # BOTTLES
08968 11	ENV-4B-2.5'-3.5'	4/28/15	1142	S	MSC					X	X		X								3
12	ENV-10B-0.0'-2.5'	4/28/15	1230	S	MSC					X	X		X								3
13	ENV-12B-15.0'-17.5'	4/28/15	1335	S	MSC								X	X			X		X		3
14	ENV-13B-17.5'-20.0'	4/28/15	1430	S	MSC					X	X		X				H			HOLD PIANO Analysis	3
08	ENV-1B-15.0'-17.5'	4/28/15	09:30	S	MSC										X	X		X			3
10	ENV-3B-12.5'-15.0'	4/29/15	11:00	S	MSC										X	X		X			3
01	ENV-5B-12.5'-15.0'	4/27/15	09:56	S	MSC										X	X		X			3
06	ENV-8B-12.5'-15.0'	4/29/15	14:45	S	MSC										X	X		X			3
05	ENV-9B-12.5'-15.0'	4/29/15	12:50	S	MSC										H	H		X		HOLD TPH + Alk. PAH Analysis	3
15	~~ENV-9B-Tar Fragment (10.0'-12.5')~~	~~4/29/15~~	~~12:40~~	~~X 1~~	~~MSC~~										X	X					1
										A	V			A	A	A	V	V			
										A	F			A	A	A	F	D.I			

Container Type / Preservative

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO_3
D= H_2SO_4
E= NaOH
F= MeOH
G= $NaHSO_4$
H = $Na_2S_2O_3$
I= Ascorbic Acid
J = NH_4Cl
K= Zn Acetate
O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	4/29/15 1355	[signature] ASL	4/29/15 1355
[signature]	4/29/15 1730	[signature]	4/29/15 1730

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

CHAIN OF CUSTODY

PAGE 3 OF 3

Serial_No.08071517:42

Date Rec'd in Lab: 4/29/15

ALPHA Job #: L1518191

ALPHA ANALYTICAL — Worth Glass Chemistry
8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Client Information

Client: ENVIRON
Address: 3 Carlisle Rd, Suite 210, Westford, MA 01886
Phone: 603-703-5534
Email: jnoble@environcorp.com

Project Information

Project Name: Huffman's-284 Winter St.
Project Location: Haverhill, MA
Project #: 08-36060B
Project Manager: John Noble
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 5/13/15

Report Information - Data Deliverables

☒ ADEx ☒ EMAIL

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements & Project Information Requirements

☒ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☒ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☒ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program _____ Criteria _____

Additional Project Information:

In accordance w/ Master Service Agreement dated 11/15/13

ANALYSIS

VOC: ☐ 8260 ☐ 624 ☐ 524.2
SVOC: ☐ ABN ☐ PAH
METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15
METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13
EPH: ☒ Ranges & Targets ☐ Ranges Only
VPH: ☒ Ranges & Targets ☐ Ranges Only
☐ PCB ☐ PEST
TPH: ☐ Quant Only ☐ Fingerprint

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	EPH-04-1 (Ranges Only) Petroleum Hydrocarbons RT by GC/FID-EPH8015B Mod. Aliphatics by EPH	VPH-04-1 (Ranges Only) VPH by GC/FID-EPH8015B Mod. Aromatics by EPH	PIANO by 8260B (H)	~~PIANO by 8260B (L)~~	Sample Comments	TOTAL # BOTTLES
08968-07	ENV-11B-15.0'-17.5'	4/27	16:10	S	MSC	X	X		X		3
13	ENV-12B-15.0'-17.5'	4/28	13:35	S	MSC	X	X		X		3
14	ENV-13B-17.5'-20.0'	4/28	14:30	S	MSC	H	H		H		3
15	Trip Blank	4/22/15			RS			X			1
Container Type						A	A	V	V		
Preservative						A	A	F	D.I.		

SAMPLE INFO
Filtration
☐ Field
☐ Lab to do
Preservation
☐ Lab to do

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO_3
D= H_2SO_4
E= NaOH
F= MeOH
G= $NaHSO_4$
H= $Na_2S_2O_3$
I= Ascorbic Acid
J= NH_4Cl
K= Zn Acetate
O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
Pat Gilder	4/29/15 1355	Pat Gilder AAL	4/29/15 1355
Pat Gilder	4/29/15 1730	Wells McCleondon	4/29/15 1730

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

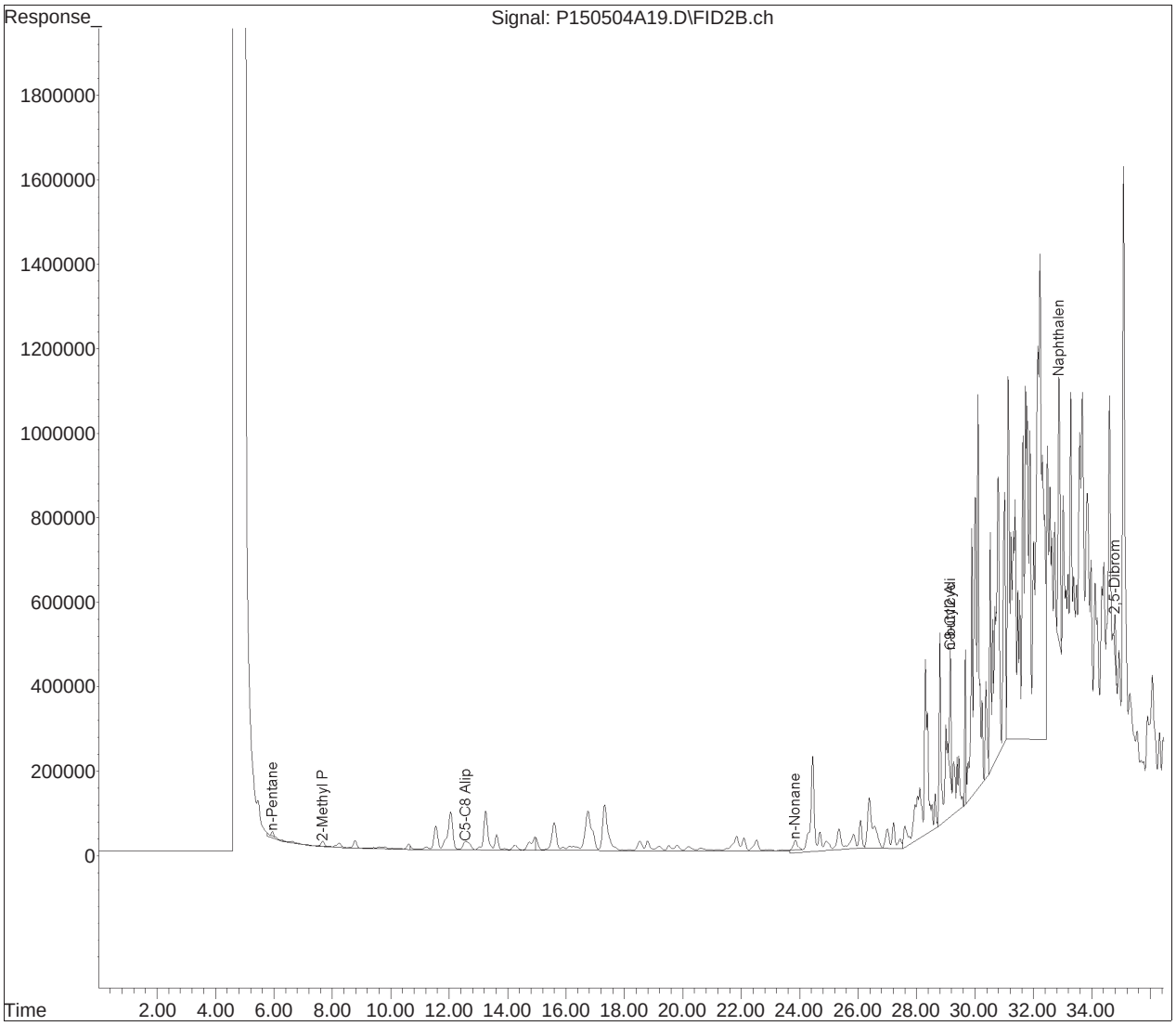
Quantitation Report (QT Reviewed)

Data Path : I:\PVPH\150504ali\
Data File : P150504A19.D
Signal(s) : FID2B.ch
Acq On : 4 May 2015 10:38 pm
Operator : PVPH:BS
Sample : l1518191-02D,41,16,10.4,.05
Misc : wg781965,ical10927
ALS Vial : 19 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: May 05 09:19:00 2015
Quant Method : I:\PVPH\150504ali\vph-ali.m
Quant Title : VPH ALIPHATIC
QLast Update : Thu Apr 23 07:59:10 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Sub List : Default - All compounds listed



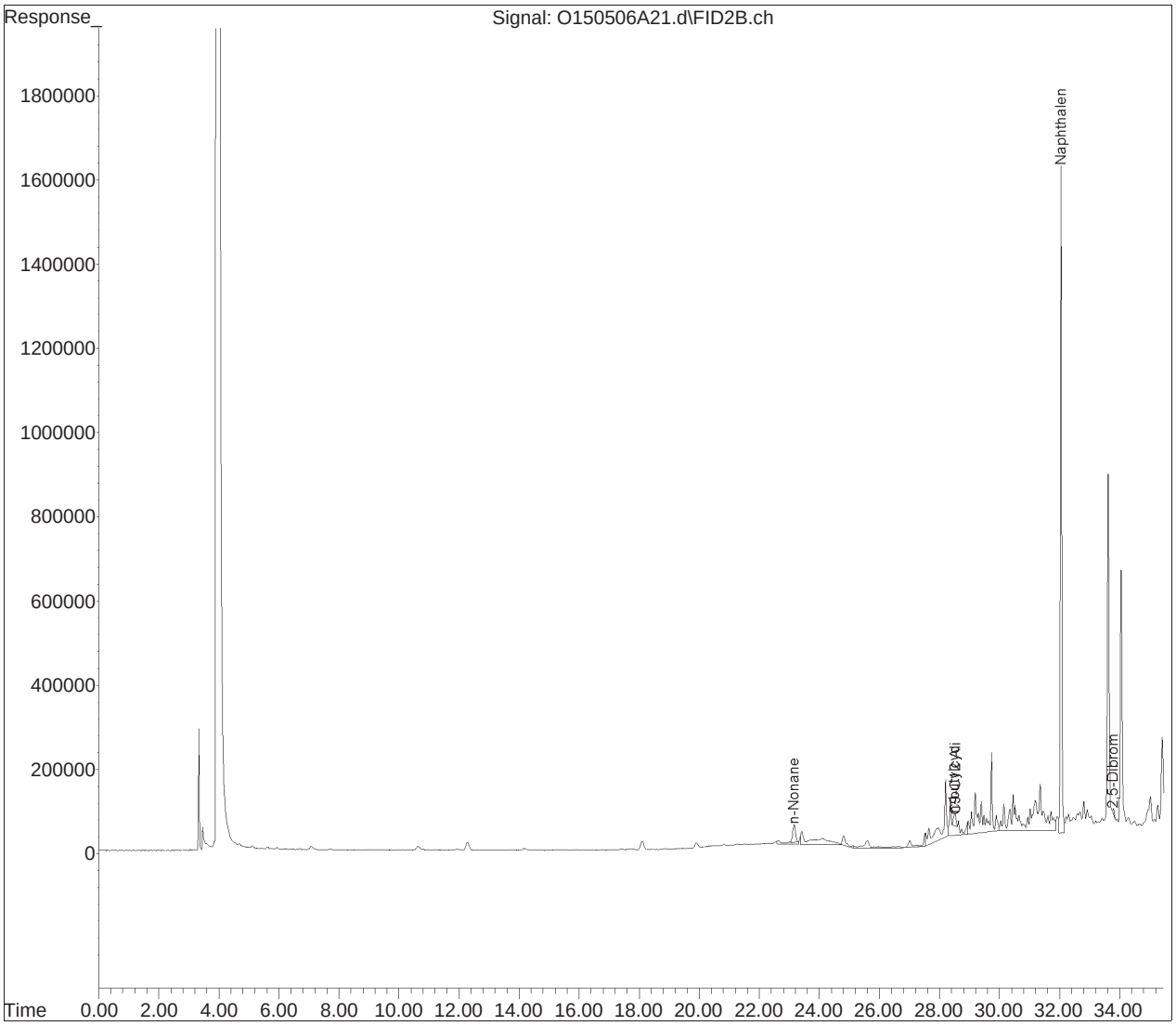
Quantitation Report (QT Reviewed)

Data Path : I:\OVPH\150506ali\
Data File : O150506A21.d
Signal(s) : FID2B.ch
Acq On : 7 May 2015 12:47 am
Operator : OVPH:BS
Sample : l1518191-04D,41,16,11.4,.005
Misc : wg782859,ical10992
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: May 07 08:50:40 2015
Quant Method : I:\OVPH\150506ali\vph-ali.m
Quant Title : VPH ALIPHATIC
QLast Update : Wed May 06 08:40:20 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Sub List : Default - All compounds listed



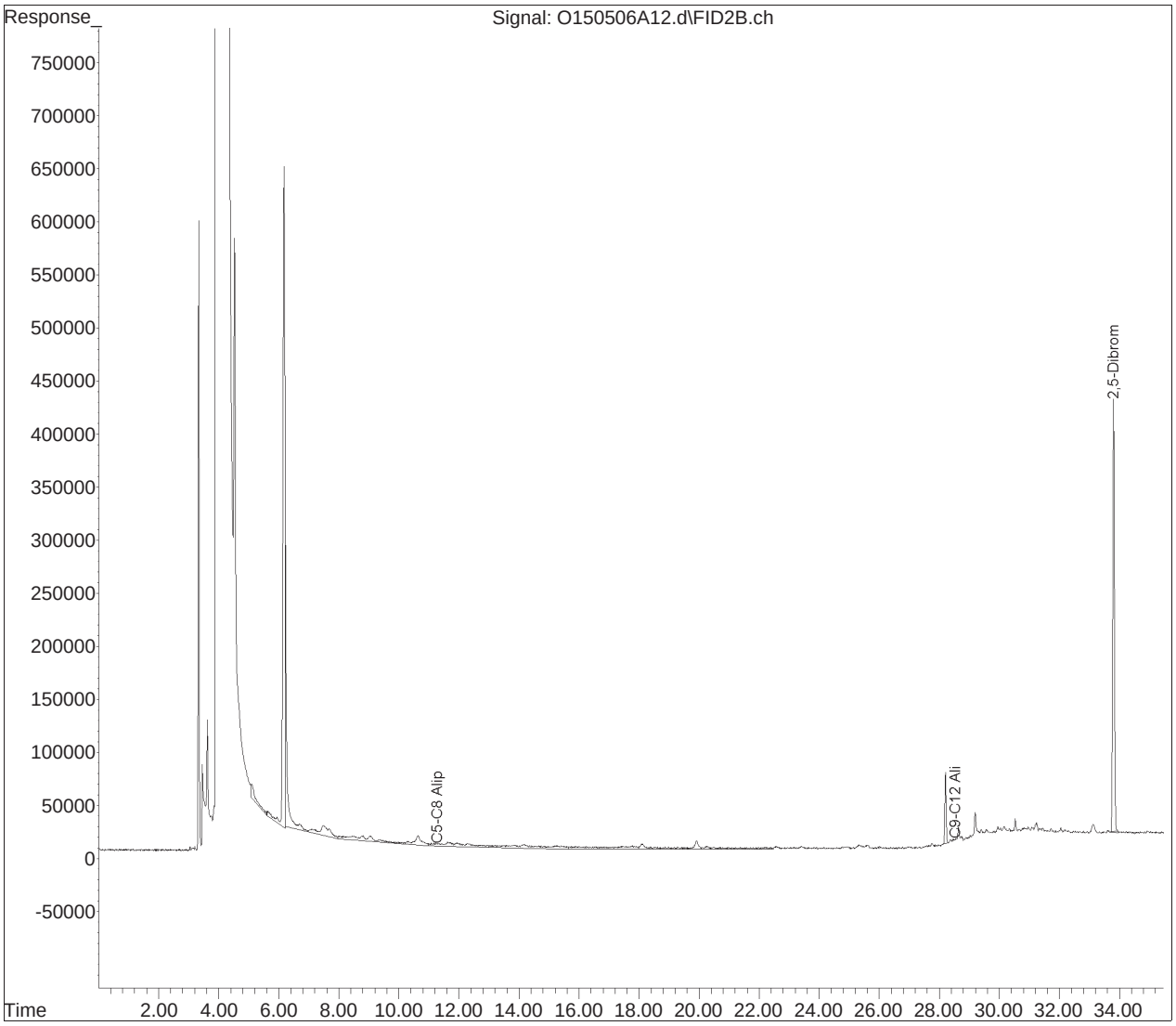
Quantitation Report (QT Reviewed)

Data Path : I:\OVPH\150506ali\
Data File : O150506A12.d
Signal(s) : FID2B.ch
Acq On : 6 May 2015 6:45 pm
Operator : OVPH:BS
Sample : l1518191-12,41,16,18.5,.1
Misc : wg782859,ical10992
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: May 07 08:39:39 2015
Quant Method : I:\OVPH\150506ali\vph-ali.m
Quant Title : VPH ALIPHATIC
QLast Update : Wed May 06 08:40:20 2015
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Sub List : Default - All compounds listed



APPENDIX L

Low-flow Groundwater Sampling Field Forms

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: Haffner's - 284 Winter Street, Haverhill, MA
Project No.: 08-36060B
Date: 5/12/15
Weather: Partly sunny, 75°F

Well ID: ENV-1MW
Sample ID: ENV-1MW-20150512
Sampler: Michael S. Clancy
Signature: [signature]

Well Condition Observations	
Protective Casing:	good (flush-mount)
Lock:	no
Label:	yes (inside MW cover)
Surface Seal:	good
PVC Well Casing:	good

Well Volume Calculations	
Well Diameter (in.):	1.5"
Depth to Water (ft.):	13.42
Total Depth (ft.):	28.0
Well Volume (gal.):	

Pump Start: 1240

Time	Throttle SETTING (Feet H_2O)	Time Refill/ Discharge	Cycles per Minute	Discharge Volume/Cycle (mL)	FLOW RATE (mL/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	TURBIDITY (NTU)	TOTAL PURGE VOLUME (liters or gallons)
1243	60	3/3	10	8	80	13.40	6.83	18.05	3345	1.14	-93.0	105	
1248	70	3/3	10	11	110	13.40	6.75	15.03	3475	0.40	-96.0	71.1	
1253	70	3/3	10	10	100	13.40	6.73	14.58	3526	0.34	-99.8	33.2	
1258	70	3/3	10	10	100	13.40	6.72	14.49	3547	0.30	-99.9	21.8	
1303	70	3/3	10	10	100	13.40	6.72	14.35	3582	0.24	-99.4	16.1	
1308	70	3/3	10	10	100	13.40	6.71	14.26	3610	0.21	-99.8	14.5	
1313	70	3/3	10	10	100	13.40	6.70	14.14	3690	0.18	-98.4	13.5	
1318	70	3/3	10	10	100	13.40	6.70	14.13	3694	0.15	-97.5	12.2	
1323	70	3/3	10	10	100	13.40	6.69	14.12	3722	0.13	-96.6	13.8	
1328	70	3/3	10	10	100	13.40	6.69	14.31	3752	0.12	-96.5	13.4	
1333	70	3/3	10	10	100	13.40	6.69	14.42	3750	0.10	-96.1	14.7	
												ST 1335	
Stabilization Criteria					100 - 400 mL/min	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10% > 0.5 mg/L or 3 consecutive readings <0.5 mg/L	+/- 10 mV	10% >5 NTU or 3 consecutive readings < 5 NTU	
Stabilization Achieved (Y/N)					<100 100	Y	Y	Y	Y	Y	Y	Y	

Sampling/Purging Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP:	In-Situ SmarTroll
Turbidity:	HANNA 98703
Pump:	QED Bladder Pump
Intake Depth (feet below PVC):	≈16.2
Tubing:	HDPE

Note: During well purging, monitor indicator field parameters (turbidity, temperature, specific conductance, pH, ORP, DO) at a frequency of 5 minute intervals or greater. The pump's flow rate must be able to "turn over" at least one (1) flow-through-cell volume between measurements (for a 250 mL flow-through-cell with a flow rate of 50 mLs/min, the monitoring frequency would be every five minutes; for a 500 mL flow-through-cell it would be every ten minutes). If the cell volume cannot be replaced in the five minute interval, then the time between measurements must be increased accordingly.

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
40 ml. VOA	HCl	2	VPH
1-L Amber	HCl	3	EPH

SAMPLE COLLECTION TIME	START	END
	1335	1405

Comments:

Total Purge Volume = ≈1.25 gallons small pockets of sheen on purge water + slight petrol./mothball odor.

ENVIRON

3 Carlisle Road, Suite 210
Westford, MA 01886

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: Haffner's - 284 Winter Street, Haverhill, MA
Project No.: 08-36060B
Date: 5/12/15
Weather: Cloudy, 60°F

Well ID: ENV-5MW
Sample ID: ENV-5MW-20150512
Sampler: Michael P. Chemin
Signature: [signature]

Well Condition Observations	
Protective Casing:	good (Flush - needs ↑)
Lock:	no
Label:	yes (inside MW cover)
Surface Seal:	good
PVC Well Casing:	good

Well Volume Calculations	
Well Diameter (in.):	1.5"
Depth to Water (ft.):	14.24
Total Depth (ft.):	22.0
Well Volume (gal.):	

Pump Start: 0913

Time	Throttle SETTING (Feet H_2O)	Time Refill/ Discharge	Cycles per Minute	Discharge Volume/Cycle (mL)	FLOW RATE (mL/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	TURBIDITY (NTU)	TOTAL PURGE VOLUME (liters or gallons)
0917	70	3/3	10	12.6	120 ~~60~~	14.75	6.54	12.93	5735	0.48	-75.2	23.5	
0922	70	3/3	10	12.6	120 ~~60~~	14.97	6.59	12.49	5882	0.30	-76.9	19.5	
0927	70	3/3	10	12.6	120 ~~60~~	15.28	6.62	12.21	5911	0.17	-77.6	18.9	
0932	60	3/3	10	9	90	15.34	6.62	12.71	5839	0.12	-84.2	18.3	
0937	60	3/3	10	9	90	15.43	6.62	12.72	5823	0.11	-86.9	16.7	* compressor stopped; will allow to cool start again @ 1002
1002	~~0942~~	60	3/3	10	9	90	15.68	6.61	16.53	5803	0.19	-95.4	22.5	
1007	~~0947~~	60	3/3	10	9	90	15.87	6.63	14.22	5638	0.17	-93.9	22.7	
1012	60	3/3	10	9	90	15.07	6.62	13.45	5666	0.06	-102.4	23.3	
1017	60	3/3	10	9	90	15.17	6.63	13.40	5684	0.04	-107.8	18.5	
1022	60	3/3	10	8	80	15.28	6.63	13.57	5676	0.02	-111.4	18.2	
1027	60	3/3	10	8	80	15.35	6.63	13.31	5679	0.02	-116.4	17.6	
												ST 1030	
Stabilization Criteria					100 - 400 mL/min	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10% > 0.5 mg/L or 3 consecutive readings <0.5 mg/L	+/- 10 mV	10% >5 NTU or 3 consecutive readings < 5 NTU	
Stabilization Achieved (Y/N)						Y	Y	Y	Y	Y	Y	Y	

Sampling/Purging Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP:	In-Situ SmarTroll
Turbidity:	HANNA 98703
Pump:	QED Bladder Pump
Intake Depth (feet below PVC):	~ 18.1'
Tubing:	HDPE

Note: During well purging, monitor indicator field parameters (turbidity, temperature, specific conductance, pH, ORP, DO) at a frequency of 5 minute intervals or greater. The pump's flow rate must be able to "turn over" at least one (1) flow-through-cell volume between measurements (for a 250 mL flow-through-cell with a flow rate of 50 mL/min, the monitoring frequency would be every five minutes; for a 500 mL flow-through-cell it would be every ten minutes). If the cell volume cannot be replaced in the five minute interval, then the time between measurements must be increased accordingly.

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
40 ml. VOA	HCl	3+3	VPH
1-L Amber	HCl	2+2	EPH

SAMPLE COLLECTION TIME	START	END
	1030	1152

Comments:
Total Purge Volume = 1.0 gallon - slight sheen on water - greenish/yellow tinge to purge water + non-descript odor (same wx petrol.)
DUP - 20150512 collected @ "1100"

ENVIRON

3 Carlisle Road, Suite 210
Westford, MA 01886

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: Haffner's - 284 Winter Street, Haverhill, MA
Project No.: 08-36060B
Date: 5-12-15
Weather: Overcast

Well ID:
Sample ID: ENV-8MW-20150512
Sampler: R. Smith
Signature:

Well Condition Observations	
Protective Casing:	N/A
Lock:	NO
Label:	YES
Surface Seal:	GOOD
PVC Well Casing:	GOOD

Well Volume Calculations	
Well Diameter (in.):	1.5
Depth to Water (ft.):	14.57
Total Depth (ft.):	19.64
Well Volume (gal.):	

Pump Start: 0841

Time	Throttle SETTING (Feet H_2O)	Time Refill/ Discharge	Cycles per Minute	Disharge Volume/Cycle (mL)	FLOW RATE (mL/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	TURBIDITY (NTU)	TOTAL PURGE VOLUME (liters or gallons)
0848	70	3/3	10	8	~~80~~	14.59	6.31	13.30	6693.3	0.59	-78.4	56	
0853	70	3/3	10	8	~~70~~ 80	14.60	6.32	12.37	6531.0	0.24	-81.4	64	
0858	70	3/3	10	8	80	14.60	6.33	12.22	6453.8	0.19	-81.7	45.70	
0903	70	3/3	10	8	80	14.61	6.33	12.20	6339.7	0.13	-81.9	35.80	
0908	70	3/3	10	8	80	14.61	6.33	12.20	6235.2	0.11	-81.8	28.76	
0913	70	3/3	10	8	80	14.61	6.34	12.25	6104.4	0.08	-82.1	20.24	
0918	70	3/3	10	8	80	14.60	6.34	12.29	6011.3	0.07	-82.2	14.70	
0923	70	3/3	10	8	80	14.60	6.34	12.35	5979.8	0.06	-82.3	9.53	
0928	70	3/3	10	8	80	14.60	6.34	12.38	5926.9	0.05	-82.4	10.42	
0933	70	3/3	10	8	80	14.60	6.34	12.38	5868.1	0.04	-82.4	7.67	
0938	70	3/3	10	8	80	14.61	6.34	12.31	5861.4	0.03	-82.6	7.41	
0943	70	3/3	10	8	80	14.61	6.34	12.38	5851.8	0.03	-82.8	7.62	
0948	70	3/3	10	8	80	14.61	6.34	12.39	5821.9	0.02	-82.9	7.38	
Stabilization Criteria					100 - 400 mL/min	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10% > 0.5 mg/L or 3 consecutive readings <0.5 mg/L	+/- 10 mV	10% >5 NTU or 3 consecutive readings < 5 NTU	
Stabilization Achieved (Y/N)					N/A	Y	Y	Y	Y	Y	Y		

Sampling/Purging Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP:	In-Situ SmarTroll
Turbidity:	HANNA 98703
Pump:	QED Bladder Pump
Intake Depth (feet below PVC):	~17
Tubing:	HDPE

Note: During well purging, monitor indicator field parameters (turbidity, temperature, specific conductance, pH, ORP, DO) at a frequency of 5 minute intervals or greater. The pump's flow rate must be able to "turn over" at least one (1) flow-through-cell volume between measurements (for a 250 mL flow-through-cell with a flow rate of 50 mLs/min, the monitoring frequency would be every five minutes; for a 500 mL flow-through-cell it would be every ten minutes). If the cell volume cannot be replaced in the five minute interval, then the time between measurements must be increased accordingly.

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
40 mL VOA	HCl	9	VPH
1-L Amber	HCl	6	EPH

SAMPLE COLLECTION TIME	START	END
	0950	1115

ST: 1025

Comments:

Total Purge Volume = ~1.5 gallons, sheen on water, petroleum like odor

MS/MSD ST = 10:25

ENVIRON

Stop pump @ 11:15

3 Carlisle Road, Suite 210
Westford, MA 01886

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: Haffner's - 284 Winter Street, Haverhill, MA
Project No.: 08-36060B
Date: 5-12-15
Weather: Overcast/Cloudy/Humid

Well ID: MW-1
Sample ID: MW-1-20150512
Sampler: R. Smiley
Signature: [signature]

Well Condition Observations	
Protective Casing:	N/A
Lock:	NO
Label:	MW-1
Surface Seal:	GOOD
PVC Well Casing:	GOOD

Well Volume Calculations	
Well Diameter (in.):	2"
Depth to Water (ft.):	3.27
Total Depth (ft.):	12.18
Well Volume (gal.):	

Pump Start: 1512

Time	Throttle SETTING (Feet H_2O)	Time Refill/ Discharge	Cycles per Minute	Discharge Volume/Cycle (mL)	FLOW RATE (mL/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	TURBIDITY (NTU)	TOTAL PURGE VOLUME (liters or gallons)
1515	70	3/3	10	10	100	3.28	7.55	15.10	5966.4	0.50	-144.9	115	
1520	70	3/3	10	10	100	3.28	8.10	15.65	6049.6	0.13	-202.1	59	
1525	70	3/3	10	10	100	3.28	8.15	15.14	6088.1	0.03	-225.5	44.15	
1530	70	3/3	10	10	100	3.28	8.14	15.31	6058.1	-0.01	-228.5	43.25	
1535	70	3/3	10	10	100	3.28	8.14	14.81	5995.5	-0.02	-228.3	32.57	
1540	70	3/3	10	12	120	3.28	8.13	14.76	6046.8	-0.03	-231.9	30.16	
1545	70	3/3	10	12	120	3.28	8.13	14.89	6000.1	-0.03	-237.0	32.72	
1550	70	3/3	10	12	120	3.26	8.14	14.70	5971.1	-0.03	-240.7	32.62	
1555	70	3/3	10	12	120	3.28	8.13	14.68	5969.1	-0.03	-246.6	34.25	
1600	70	3/3	10	12	120	3.28	8.13	14.61	5941.1	-0.03	-251.8	32.64	
1605	70	3/3	10	11	110	3.28	8.13	14.70	5916.5	-0.04	-256.3	30.79	
1610	70	3/3	10	11	110	3.28	8.13	14.59	5872.2	-0.04	-261.3	30.28	
1615	70	3/3	10	12	120	3.28	8.13	14.58	5872.9	-0.04	-263.3	29.80	
Stabilization Criteria					100 - 400 mL/min	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10% > 0.5 mg/L or 3 consecutive readings <0.5 mg/L	+/- 10 mV	10% >5 NTU or 3 consecutive readings < 5 NTU	
Stabilization Achieved (Y/N)					Y	Y	Y	Y	Y	Y	Y	Y	

Sampling/Purging Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP:	In-Situ SmarTroll
Turbidity:	HANNA 98703
Pump:	QED Bladder Pump
Intake Depth (feet below PVC):	~7.75
Tubing:	HDPE

Note: During well purging, monitor indicator field parameters (turbidity, temperature, specific conductance, pH, ORP, DO) at a frequency of 5 minute intervals or greater. The pump's flow rate must be able to "turn over" at least one (1) flow-through-cell volume between measurements (for a 250 mL flow-through-cell with a flow rate of 50 mLs/min, the monitoring frequency would be every five minutes; for a 500 mL flow-through-cell it would be every ten minutes). If the cell volume cannot be replaced in the five minute interval, then the time between measurements must be increased accordingly.

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
40 ml VOA	HCl	3	VPH
1-L Amber	HCl	2	EPH

SAMPLE COLLECTION TIME	START	END
	1617	1643

ST = 1630

Comments:

Total Purge Volume = ~2.25 gallons

ENVIRON

3 Carlisle Road, Suite 210
Westford, MA 01886

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: Haffner's - 284 Winter Street, Haverhill, MA
Project No.: 08-36060B
Date: 5/12/15
Weather: Cloudy, 80°F

Well ID: MW-2
Sample ID: MW-2-2015 0512
Sampler: Michael S. Chomik
Signature: [illegible]

Well Condition Observations	
Protective Casing:	good (flush-mount)
Lock:	no
Label:	yes (inside MW cover)
Surface Seal:	good
PVC Well Casing:	good

Well Volume Calculations	
Well Diameter (in.):	2"
Depth to Water (ft.):	12.30
Total Depth (ft.):	14.76
Well Volume (gal.):	

Pump Start: 1450

Time	Throttle SETTING (Feet H_2O)	Time Refill/ Discharge	Cycles per Minute	Disharge Volume/Cycle (mL)	FLOW RATE (mL/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	TURBIDITY (NTU)	TOTAL PURGE VOLUME (liters or gallons)
1456	70 ~~60~~	3/3	10	8	80	12.48	6.47	20.30	7019	0.71	-95.4	84.8	
1501	70	3/3	10	8	80	12.51	6.45	17.32	7400	0.36	-95.5	81.8	
1506	70	3/3	10	8	80	12.55	6.45	16.07	7677	0.21	-96.7	121	
1511	70	3/3	10	8	80	12.57	6.45	15.55	7843	0.17	-97.8	132	
1516	70	3/3	10	8	80	12.58	6.45	15.22	7954	0.14	-98.9	118	
1521	70	3/3	10	8	80	12.58	6.45	15.26	8078	0.12	-100.3	77.2	
1526	70	3/3	10	8	80	12.58	6.46	15.32	8066	0.11	-100.8	89.3	
1531	70	3/3	10	8	80	12.53	6.46	15.66	8077	0.10	-101.8	69.6	
1536	70	3/3	10	8	80	12.54	6.46	15.77	8089	0.09	-102.3	57.7	
1541	70	3/3	10	8	80	12.53	6.47	15.93	8074	0.08	-102.8	45.1	
1546	70	3/3	10	8	80	12.53	6.47	15.96	8084	0.06	-102.9	39.3	
1551	70	3/3	10	8	80	12.50	6.47	15.86	8082	0.06	-103.3	38.2	
1556	70	3/3	10	8	80	12.53	6.48	15.86	8086	0.05	-103.5	40.0	
												ST 1558	
Stabilization Criteria					100 - 400 mL/min	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10% > 0.5 mg/L or 3 consecutive readings <0.5 mg/L	+/- 10 mV	10% >5 NTU or 3 consecutive readings < 5 NTU	
Stabilization Achieved (Y/N)					<100	Y	Y	Y	Y	Y	Y	Y	

Sampling/Purging Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP:	In-Situ SmarTroll
Turbidity:	HANNA 98703
Pump:	QED Bladder Pump
Intake Depth (feet below PVC):	~13.5
Tubing:	HDPE

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
40 ml. VOA	HCl	3	VPH
1-L Amber	HCl	2	EPH

Note: During well purging, monitor indicator field parameters (turbidity, temperature, specific conductance, pH, ORP, DO) at a frequency of 5 minute intervals or greater. The pump's flow rate must be able to "turn over" at least one (1) flow-through-cell volume between measurements (for a 250 mL flow-through-cell with a flow rate of 50 mLs/min., the monitoring frequency would be every five minutes; for a 500 mL flow-through-cell it would be every ten minutes). If the cell volume cannot be replaced in the five minute interval, then the time between measurements must be increased accordingly.

SAMPLE COLLECTION TIME	START	END
	1558	1640

Comments:

Total Purge Volume = ~1.0 gallon
greenish/yellow tinge to purge water w/ pockets of sheen; slight petroleum-like odor

ENVIRON

3 Carlisle Road, Suite 210
Westford, MA 01886

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: Haffner's - 284 Winter Street, Haverhill, MA
Project No.: 08-36060B
Date: 5-12-15
Weather: Overcast/Cloudy/Humid

Well ID: MW-3
Sample ID: MW-3-20150512
Sampler: R. Spaulding
Signature: [illegible]

Well Condition Observations	
Protective Casing:	NA
Lock:	NO
Label:	MW-3
Surface Seal:	GOOD
PVC Well Casing:	GOOD

Well Volume Calculations	
Well Diameter (in.):	2
Depth to Water (ft.):	12.10
Total Depth (ft.):	18.02
Well Volume (gal.):	

Pump Start: 1156 → 1222

Time	Throttle SETTING (Feet H_2O)	Time Refill/ Discharge	Cycles per Minute	Discharge Volume/Cycle (mL)	FLOW RATE (mL/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	TURBIDITY (NTU)	TOTAL PURGE VOLUME (liters or gallons)
1200	70	3/3	10	8	80	12.44	6.18	18.24	2582.1	5.58	3.5	25.71	
1203	air in water line - troubleshoot. O-ring at bladder not seated right.												
1222	restart pump					12.23							
1225	60	3/3	10	5	50	12.29	6.53	19.34	2479.5	6.52	12.7	95	
1230	~~70~~ 75	3/3	10	11	110	12.55	6.00	14.54	2393.3	0.36	12.2	87	
1235	70	3/3	10	8	80	12.45	6.01	14.04	2337.6	0.18	6.3	79	
1240	70	3/3	10	7	70	12.62	6.02	14.23	2272.2	0.14	3.5	79	
1245	70	3/3	10	7	70	12.62	6.04	14.04	2198.7	0.13	0.1	71	
1250	70	3/3	10	8	80	12.62	6.06	14.14	2130.8	0.12	-3.9	71 A → 46.20	
1255	70	3/3	10	8	80	12.62	6.08	14.21	2048.6	0.11	-8.9	42.06	
1300	70	3/3	10	8	80	12.62	6.09	14.30	2000.7	0.10	-11.1	40.24	
1305	70	3/3	10	8	80	12.62	6.10	14.20	1971.7	0.10	-14.4	32.81	
1310	70	3/3	10	8	80	12.62	6.12	14.12	1917.7	0.09	-16.5	30.61	
1315	70	3/3	10	8	80	12.62	6.12	14.21	1875.6	0.08	-19.3	28.70	
Stabilization Criteria					100 - 400 mL/min	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10% > 0.5 mg/L or 3 consecutive readings <0.5 mg/L	+/- 10 mV	10% >5 NTU or 3 consecutive readings < 5 NTU	
Stabilization Achieved (Y/N)						Y	Y	Y	N	Y	Y	N	

Sampling/Purging Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP:	In-Situ SmarTroll
Turbidity:	HANNA 98703
Pump:	QED Bladder Pump
Intake Depth (feet below PVC):	~15
Tubing:	HDPE

Note: During well purging, monitor indicator field parameters (turbidity, temperature, specific conductance, pH, ORP, DO) at a frequency of 5 minute intervals or greater. The pump's flow rate must be able to "turn over" at least one (1) flow-through-cell volume between measurements (for a 250 mL flow-through-cell with a flow rate of 50 mLs/min., the monitoring frequency would be every five minutes; for a 500 mL flow-through-cell it would be every ten minutes). If the cell volume cannot be replaced in the five minute interval, then the time between measurements must be increased accordingly.

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
40 ml. VOA	HCl	3	VPH
1-L Amber	HCl	2	EPH

SAMPLE COLLECTION TIME	START	END

Comments:

Total Purge Volume =

*condensation - return to 46.20

ENVIRON

1/2

3 Carlisle Road, Suite 210
Westford, MA 01886

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: Haffner's - 284 Winter Street, Haverhill, MA
Project No.: 08-36060B
Date:
Weather:

Well ID: MW-3
Sample ID:
Sampler:
Signature:

Well Condition Observations	
Protective Casing:	
Lock:	
Label:	
Surface Seal:	
PVC Well Casing:	

Well Volume Calculations	
Well Diameter (in.):	
Depth to Water (ft.):	
Total Depth (ft.):	
Well Volume (gal.):	

Pump Start:

Time	Throttle SETTING (Feet H_2O)	Time Refill/ Discharge	Cycles per Minute	Disharge Volume/Cycle (mL)	FLOW RATE (mL/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	TURBIDITY (NTU)	TOTAL PURGE VOLUME (liters or gallons)
1320	70	3/3	10	8	80	12.62	6.13	14.39	1846.1	0.08	-19.7	24.68	
1325	70	3/3	10	8	80	12.62	6.14	14.59	1820.5	0.07	-21.0	25.53	
1330	70	3/3	10	8	80	12.62	6.14	14.69	1790.7	0.07	-21.6	22.79	
1335	70	3/3	10	8	80	12.62	6.15	14.78	1751.9	0.06	-22.6	17.43	
1340	70	3/3	10	8	80	12.62	6.16	14.88	1729.0	0.06	-23.3	16.97	
1345	70	3/3	10	8	80	12.62	6.16	15.00	1700.3	0.05	-23.7	17.59	
1350	70	3/3	10	8	80	12.62	6.17	14.90	1690.9	0.05	-24.6	~~15.83~~ ~~15.83~~	13.00
1355	70	3/3	10	8	80	12.62	6.18	14.93	1656.0	0.05	-25.7	12.82	
1400	70	3/3	10	8	80	12.62	6.18	14.96	1630.1	0.05	-26.9	12.68	
1405	70	3/3	10	8	80	12.62	6.19	14.89	1617.0	0.05	-28.0	13.52	
1410	70	3/3	10	8	80	12.62	6.19	14.92	1593.8	0.05	-28.5	13.38	
Stabilization Criteria					100 - 400 mL/min	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10% > 0.5 mg/L or 3 consecutive readings <0.5 mg/L	+/- 10 mV	10% >5 NTU or 3 consecutive readings < 5 NTU	
Stabilization Achieved (Y/N)					N	Y	Y	Y	Y	Y	Y	Y	

Sampling/Purging Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP:	In-Situ SmarTroll
Turbidity:	HANNA 98703
Pump:	QED Bladder Pump
Intake Depth (feet below PVC):	~15
Tubing:	HDPE

Note: During well purging, monitor indicator field parameters (turbidity, temperature, specific conductance, pH, ORP, DO) at a frequency of 5 minute intervals or greater. The pump's flow rate must be able to "turn over" at least one (1) flow-through-cell volume between measurements (for a 250 mL flow-through-cell with a flow rate of 50 mLs/min., the monitoring frequency would be every five minutes; for a 500 mL flow-through-cell it would be every ten minutes). If the cell volume cannot be replaced in the five minute interval, then the time between measurements must be increased accordingly.

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
40 ml. VOA	HCl	3	VPH
1-L Amber	HCl	2	EPH

SAMPLE COLLECTION TIME	START	END
	1410	1447

ST = 1430

Comments:

Total Purge Volume = ~2 gallons, light greenish/amber color, no sheen, petroleum odor

1404 - SN ok to sample after 1hr 45 min even if not stable

ENVIRON

2/2

3 Carlisle Road, Suite 210
Westford, MA 01886

APPENDIX M

IRA Photologs

Photo 1: Multi-color sheen observed on the Little River.

Photo 2: Containment booms on the Little River.

Title: Haffner IRA Photographs

Date: June 2015

Site Location: Haverhill, MA

RAMBOLL ENVIRON

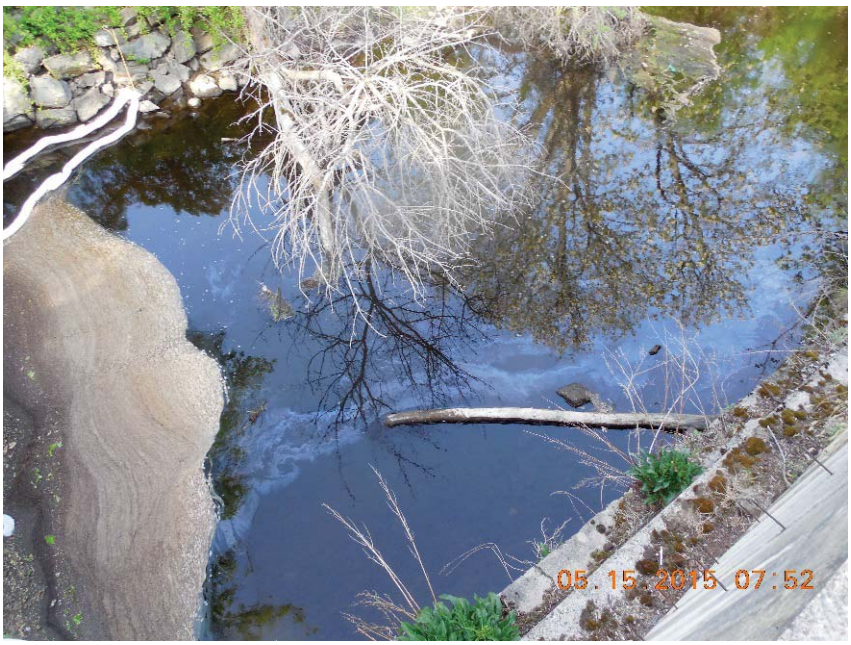


Photo 3: Sheen observed on the River on 5/15/2015 upstream of containment boom.

Photo 4: Looking downstream of the initial containment booms installed on 5/15/2015.

Title: Haffner IRA Photographs

Date: June 2015

Site Location: Haverhill, MA

RAMBOLL ENVIRON

Photo 5: Pipe protruding from the rock wall with a tar-like substance dripping and pooling at the edge of the Little River.

Photo 6: Staining on the wall beneath pipes protruding from the rock wall.

Title: Haffner IRA Photographs **Date:** June 2015

Site Location: Haverhill, MA

RAMBOLL ENVIRON

Photo 7: Staining on the wall upstream of the protruding pipes.

Photo 8: Boom maintenance activities on 5/18/2015.

Title: Haffner IRA Photographs

Date: June 2015

Site Location: Haverhill, MA

RAMBOLL ENVIRON

Photo 9: Secondary containment booms installed on 5/18/2015.

Photo 10: Upstream containment booms capturing NAPL sheen on 5/27/2015.

Title: Haffner IRA Photographs

Date: June 2015

Site Location: Haverhill, MA

RAMBOLL ENVIRON

Photo 1: Second temporary containment boom on the Little River looking upstream (north).

Photo 2: Second temporary containment boom on the Little River (facing southwest).

Title: Haffner IRA Status Report #1 Photographs **Date:** September 2015

Site Location: Haverhill, MA

RAMBOLL ENVIRON

Photo 3: Second temporary containment boom on the Little River (facing southwest).

Photo 4: Second temporary containment boom on the Little River (facing west).

Title: Haffner IRA Status Report #1 Photographs **Date:** September 2015

Site Location: Haverhill, MA

RAMBOLL ENVIRON

Photo 5: Southern, downstream end of second temporary containment boom (facing southwest).

Photo 6: Floating debris observed outside of second temporary containment boom near upstream end (facing southwest).

Title: Haffner IRA Status Report #1 Photographs **Date:** September 2015

Site Location: Haverhill, MA

RAMBOLL ENVIRON

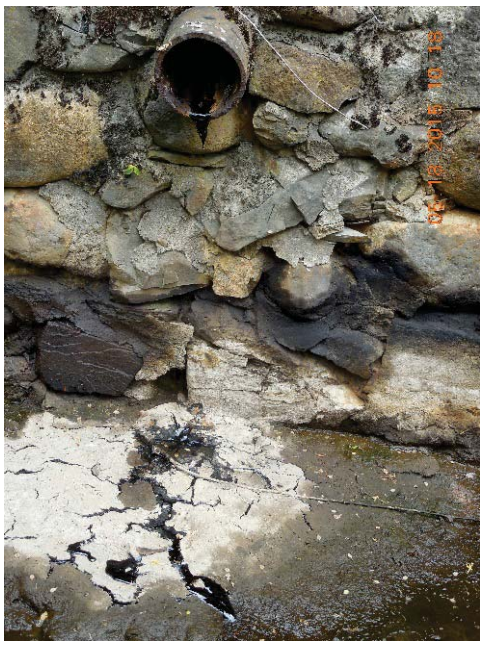


Photo 7: View of tar-like substance emanating from pipe along western perimeter of Site.

Photo 8: View of NAPL seeping from base of wall along western perimeter of Site.

Title: Haffner IRA Status Report #1 Photographs **Date:** September 2015

Site Location: Haverhill, MA

RAMBOLL ENVIRON

Photo 9: Close-up view of NAPL seeping from base of wall along western perimeter of Site.

Title: Haffner IRA Status Report #1 Photographs **Date:** September 2015

Site Location: Haverhill, MA

RAMBOLL ENVIRON

Photo 1: Temporary containment boom on the Little River looking downstream (south) following damage due to high river flow (10/2/2015).

Photo 2: Disconnected section of the temporary containment boom on the Little River looking upstream (northwest) following damage due to high river flow (10/2/2015).

Title: Haffner IRA Status Report #2 Photographs

Site Location: Haverhill, MA

RAMBOLL ENVIRON

Photo 3: Repaired temporary containment boom on the Little River (facing south), (10/30/2015).

Photo 4: Temporary containment boom on the Little River (facing south). Note fallen tree submerged a section of the boom which was subsequently freed (12/31/2015).

Title: Haffner IRA Status Report #2 Photographs

Site Location: Haverhill, MA

RAMBOLL ENVIRON

Photo 5: Saturated southern end of temporary containment boom (facing southwest) prior to replacement (2/23/2016).

Photo 6: Southern section of temporary containment boom following replacement (facing southwest), (2/23/16).

Title: Haffner IRA Status Report #2 Photographs

Site Location: Haverhill, MA

RAMBOLL ENVIRON

Photo 7: Temporary containment boom (facing southwest) following significant rain event (2/26/2016).

Photo 8: Temporary containment boom (middle section) following significant rain event (2/26/2016).

Title: Haffner IRA Status Report #2 Photographs

Site Location: Haverhill, MA

RAMBOLL ENVIRON

APPENDIX N

MassDEP Bureau of Site Waste Cleanup Transmittal Forms

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

TIER CLASSIFICATION TRANSMITTAL FORM
Pursuant to 310 CMR 40.0500 (Subpart E)

BWSC 107

Release Tracking Number
3 - 32792

A. DISPOSAL SITE LOCATION:

1. Disposal Site Name: HAFFNER'S

2. Street Address: 284 WINTER STREET

3. City/Town: HAVERHILL 4. ZIP Code: 018300000

5. Coordinates: Latitude: N 42.77728 Longitude: W 71.08774

B. THIS FORM IS BEING USED TO: (check all that apply)

☑ 1. Submit a new **Tier Classification Submittal**, including a **Tier Classification Compliance History** (BWSC107B). Check the tier classification category:

☑ a. Tier I ☐ b. Tier II

c. Check all Tier I criteria that apply, pursuant to 310 CMR 40.0520(2):

☐ i. Groundwater is located within an Interim Wellhead Protection Area, Zone II, or within 500 feet of a Private Water Supply Well, and there is evidence of groundwater contamination by an Oil or Hazardous Material at the time of Tier Classification at concentrations equal to or exceeding the applicable RCGW-1 Reportable Concentration set forth in 310 CMR 40.0360.

☐ ii. An Imminent Hazard is present at the time of Tier Classification.

☑ iii. One or more remedial actions are required as part of an Immediate Response Action pursuant to 310 CMR 40.0414(2).

☐ iv. One or more response actions are required as part of an Immediate Response Action to eliminate or mitigate a Critical Exposure Pathway pursuant to 310 CMR 40.0414(3).

☐ d. Check here if including an **Eligible Person, Eligible Tenant, or Other Person Certification** (BWSC107D)

☑ 2. Submit a **Phase I Completion Statement** as per 310 CMR 40.0480.

If previously submitted, provide date _____
mm/dd/yyyy

☐ 3. Submit a **Phase II Scope of Work** as per 310 CMR 40.0834.

If previously submitted, provide date _____
mm/dd/yyyy

☑ 4. Submit a **Phase II Conceptual Scope of Work supporting a Tier Classification Submittal.**

☐ 5. Submit a **Tier Classification Extension Submittal** for Response Actions at a Tier Classified Site including the **Tier Classification Compliance History** (BWSC107B).

☐ 6. Submit a Tier Classification Transfer Submittal for a change in person(s) undertaking Response Actions at a Tier Classified Site including the **Tier Classification Compliance History** (BWSC107B) and the **Tier Classification Transferor Certification** (BWSC107C).

Proposed effective date of transfer : _____
mm/dd/yyyy

B. THIS FORM IS BEING USED TO: (cont.)

☐ 7. Submit a **Revised Tier Classification Submittal.**
Check the revised Tier Classification Category. If the Tier Classification Category is not changing, indicate the current classification.

☐ a. Tier I ☐ b. Tier II

c. Check all Tier I criteria that apply, pursuant to 310 CMR 40.0520(2):

☐ i. Groundwater is located within an Interim Wellhead Protection Area, Zone II, or within 500 feet of a Private Water Supply Well, and there is evidence of groundwater contamination by an Oil or Hazardous Material at the time of Tier Classification at concentrations equal to or exceeding the applicable RCGW-1 Reportable Concentration set forth in 310 CMR 40.0360.

☐ ii. An Imminent Hazard is present at the time of Tier Classification.

☐ iii. One or more remedial actions are required as part of an Immediate Response Action pursuant to 310 CMR 40.0414(2).

☐ iv. One or more response actions are required as part of an Immediate Response Action to eliminate or mitigate a Critical Exposure Pathway pursuant to 310 CMR 40.0414(3).

☐ d. Check here if including an **Eligible Person, Eligible Tenant, or Other Person Certification** (BWSC107D)

☑ 8. Provide a **Notice that an additional Release Tracking Number(s) is (are) being linked to this Tier Classified Site** (Primary RTN). Future response actions addressing the Release or Threat of Release notification condition associated with additional Release Tracking Numbers (RTNs) will be conducted as part of the Response Actions planned or ongoing at the Primary Site listed above. For a previously Tier Classified Primary Site, if there is a reasonable likelihood that the addition of the new secondary RTN(s) would change the classification of the site, a **Revised Tier Classification Submittal** must also be made.

Provide Release Tracking Number(s): a. 3 - 32875 b. -

All future Response Actions must occur according to the deadlines applicable to the Primary RTN. Use only the Primary RTN when making future submittals for this site unless specifically relating to response actions started before the linking occurred.

C. LSP SIGNATURE AND STAMP:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

> *if Section B of this form indicates that a **Tier Classification Submittal** is being submitted,* this Tier Classification Submittal has been developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> *if Section B of this form indicates that a **Phase I Completion Statement** is being submitted,* the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> *if Section B of this form indicates that a **Phase II Scope of Work** is being submitted,* the response action(s) that is (are) the subject of this submittal (i) has (have) been developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> *if Section B of this form indicates that a **Tier Classification Extension Submittal** or a **Tier Classification Transfer Submittal** is being submitted,* the response action(s) that is (are) the subject of this submittal (i) is (are) being implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action (s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. LSP#: 7262

2. First Name: ERIC S 3. Last Name: WOOD

4. Telephone: 978-449-0343 5. Ext.: 6. Email: ESWOOD@RAMBOLL.COM

7. Signature:

8. Date: mm/dd/yyyy 9. LSP Stamp:

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

TIER CLASSIFICATION TRANSMITTAL FORM
Pursuant to 310 CMR 40.0500 (Subpart E)

BWSC 107

Release Tracking Number
3 - 32792

D. PERSON MAKING SUBMITTAL:

1. Check all that apply: ☐ a. change in contact name ☐ b. change of address ☐ c. change in the person undertaking response actions

2. Name of Organization: HAFFNER REALTY TRUST

3. Contact First Name: JOANNE 4. Last Name: FOURNIER

5. Street: 2 INTERNATIONAL WAY 6. Title:

7. City/Town: LAWRENCE 8. State: MA 9. ZIP Code: 018430000

10. Telephone: 978-683-2771 11. Ext.: 12. Email:

E. RELATIONSHIP OF PERSON MAKING SUBMITTAL TO DISPOSAL SITE: ☐ Check here to change relationship

☑ 1. RP or PRP ☐ a. Owner ☐ b. Operator ☐ c. Generator ☐ d. Transporter

☑ e. Other RP or PRP Specify: OTHER PRPS

☐ 2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

☐ 3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

☐ 4. Any Other Person Making Submittal Specify Relationship:

F. REQUIRED ATTACHMENT AND SUBMITTALS:

☐ 1. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.

☑ 2. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the submittal of any Phase Reports to DEP.

☑ 3. Check here to certify that a copy of the Legal Notice of a Tier Classification or Re-classification Submittal is attached, and a cover letter and a copy of the notice is sent to the Chief Municipal Officer and the Local Board of Health pursuant to 310 CMR 40.0510(3) and 40.1403.

☐ 4. Check here to certify that the owner of a Public Water Supply has been provided written notice pursuant to 310 CMR 40.0510(3).

☐ 5. For a Tier Classification Extension Submittal, check here to certify that a statement summarizing why a Permanent or Temporary Solution has not been achieved at the Disposal Site is attached.

☐ 6. For a Tier Classification Transfer Submittal, check here to certify that a statement summarizing the reasons for the proposed change in person(s) undertaking the Response Actions is attached. All Response Actions must be completed by the deadline applicable to the person who first filed a Tier Classification Submittal for the Disposal Site.

☐ 7. Check here if any non-updatable information provided on this form is incorrect, e.g., Release Address/Location Aid. Send corrections to bwsc.edep@state.ma.us.

☑ 8. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.

G. CERTIFICATION OF PERSON MAKING SUBMITTAL:

1. I, _____, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

If submitting a Tier II Classification, Extension or Transfer, I also attest under the pains and penalties of perjury that (i) I/the person(s) or entity(ies) on whose behalf this submittal is made has/have personally examined and am/is familiar with the requirements of M.G.L. c. 21E and 310 CMR 40.0000; (ii) based upon my inquiry of the/those Licensed Site Professional(s) employed or engaged to render Professional Services for the disposal site which is the subject of this Transmittal Form and of the person(s) or entity(ies) on whose behalf this submittal is made, and my/that person's(s') or entity's(ies') understanding as to the estimated costs of necessary response actions, that/those person (s) or entity(ies) has/have the technical, financial and legal ability to proceed with response actions for such site in accordance with M.G.L. c. 21E, 310 CMR 40.0000 and other applicable requirements; and (iii) that I am fully authorized to make this attestation on behalf of the person(s) or entity(ies) legally responsible for this submittal. I/the person(s) or entity(ies) on whose behalf this submittal is made is aware of the requirements in 310 CMR 40.0172 for notifying the Department in the event that I/the person(s) or entity(ies) on whose behalf this submittal is made learn(s) that it/they is/are unable to proceed with the necessary response actions.

2. By: _____ 3. Title: _____
Signature

4. For: HAFFNER REALTY TRUST 5. Date: _____
(Name of person or entity recorded in Section D) mm/dd/yyyy

☐ 6. Check here if the address of the person providing certification is different from address recorded in Section D.

7. Street: _____

8. City/Town: _____ 9. State: _____ 10. ZIP Code: _____

11. Telephone: _____ 12. Ext.: _____ 13. Email: _____

YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO $10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY):

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

TIER CLASSIFICATION COMPLIANCE HISTORY
Pursuant to 310 CMR 40.0540 (Subpart E)

BWSC 107B

Release Tracking Number
3 - 32792

A. DISPOSAL SITE COMPLIANCE HISTORY SUMMARY:

☐ 1. Check here if a Tier Classification Compliance History of the person listed in BWSC107, Section D, was previously submitted, and there has been no change in that person's compliance history, or the person in Section D has no compliance history. If this box is checked, this section does not have to be completed.

2. List all permits or licenses that have been issued by the Department that are relevant to this Disposal Site:

Program	Permit Number	Permit Category	Facility ID
a. Air Quality			
b. Hazardous Waste (M.G.L. c. 21C)			
c. Solid Waste			
d. Industrial Wastewater Management			
e. Water Supply			
f. Water Pollution Control/Surface Water			
g. Water Pollution Control/Groundwater			
h. Water Pollution Control/Sewer Connection			
i. Wetland & Waterways			

3. List all other Federal, state or local permits, licenses, certifications, registrations, variances, or approvals that are relevant to this Disposal Site:

Issuing Authority or Program, or Documentation Type	Identification Number	Date Issued mm/dd/yyyy
LICENSE TO SELL MOTOR FUEL AND/OR AUTOMOTIVE LUBRICATING OIL	MF0000422	1/1/2015
CERT. OF COMPLIANCE FOR PETROLEUM DISPENSING FACILITIES	5252	11/28/2014
REGISTRATION FOR STORAGE OR SALE OF FLAMMABLES	5613	4/1/2015
PERMIT TO MAINTAIN AN EXISTING STORAGE TANK FACILITY	NA	2/26/2015

☐ 4. Check here to certify that, if needed, a statement further describing the Compliance History of this Disposal Site is attached.

This statement must describe the compliance history of the person or entity named in BWSC107, Section D with the following: (1) DEP regulations; and (2) other laws for the protection of health, safety, public welfare and the environment administered or enforced by any other government agency. Such a statement should identify information such as: (1) actions relevant to the Disposal Site taken by the Department to enforce its requirements including, but not limited to, a Notice of Noncompliance (NON), Notice of Intent to Assess Civil Administrative Penalty (PAN), Notice of Intent to Take Response Action (NORA), and an administrative enforcement order; (2) administrative consent orders; (3) judicial consent judgements; (4) similar administrative actions taken by other Federal, state or local agencies; (5) civil or criminal actions relevant to the Disposal Site brought on behalf of the DEP or other Federal, state, or local agencies; and (6) any additional relevant information. For each action identified, provide the following information: (1) name of the issuing authority, type of action, identification number and date issued; (2) description of noncompliance cited; (3) current status of the matter; and (4) final disposition, if any.

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC 108

Release Tracking Number
3 - 32792

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

A. SITE LOCATION:

1. Site Name: HAFFNER'S

2. Street Address: 284 WINTER STREET

3. City/Town: HAVERHILL 4. ZIP Code: 018300000

☑ 5. Check here if the disposal site that is the source of the release is Tier Classified. Check the current Tier Classification Category:

☑ a. Tier I ☐ b. Tier ID ☐ c. Tier II

B. THIS FORM IS BEING USED TO: (check all that apply)

☑ 1. Submit a **Phase I Completion Statement,** pursuant to 310 CMR 40.0484.

☐ 2. Submit a **Revised Phase I Completion Statement,** pursuant to 310 CMR 40.0484.

☑ 3. Submit a **Phase II Scope of Work,** pursuant to 310 CMR 40.0834.

☐ 4. Submit an **interim Phase II Report.** This report does not satisfy the response action deadline requirements in 310 CMR 40.0500.

☐ 5. Submit a **final Phase II Report and Completion Statement,** pursuant to 310 CMR 40.0836.

☐ 6. Submit a **Revised Phase II Report and Completion Statement,** pursuant to 310 CMR 40.0836.

☐ 7. Submit a **Phase III Remedial Action Plan and Completion Statement,** pursuant to 310 CMR 40.0862.

☐ 8. Submit a **Revised Phase III Remedial Action Plan and Completion Statement,** pursuant to 310 CMR 40.0862.

☐ 9. Submit a **Phase IV Remedy Implementation Plan,** pursuant to 310 CMR 40.0874.

☐ 10. Submit a **Modified Phase IV Remedy Implementation Plan,** pursuant to 310 CMR 40.0874.

☐ 11. Submit an **As-Built Construction Report,** pursuant to 310 CMR 40.0875.

☐ 12. Submit a **Phase IV Status Report,** pursuant to 310 CMR 40.0877.

☐ 13. Submit a **Phase IV Completion Statement,** pursuant to 310 CMR 40.0878 and 40.0879.

Specify the outcome of Phase IV activities: (check one)

☐ a. Phase V Operation, Maintenance or Monitoring of the Comprehensive Remedial Action is necessary to achieve a Permanent or Temporary Solution.

☐ b. The requirements of a Permanent Solution have been met. A completed Permanent Solution Statement and Report (BWSC104) will be submitted to DEP.

☐ c. The requirements of a Temporary Solution have been met. A completed Temporary Solution Statement and Report (BWSC104) will be submitted to DEP.

B. THIS FORM IS BEING USED TO (cont.): (check all that apply)

☐ 14. Submit a **Revised Phase IV Completion Statement,** pursuant to 310 CMR 40.0878 and 40.0879.

☐ 15. Submit a **Phase V Status Report,** pursuant to 310 CMR 40.0892.

☐ 16. Submit a **Remedial Monitoring Report.** (This report can only be submitted through eDEP.)

a. Type of Report: (check one) ☐ i. Initial Report ☐ ii. Interim Report ☐ iii. Final Report

b. Frequency of Submittal: (check all that apply)

☐ i. A Remedial Monitoring Report(s) submitted monthly to address an Imminent Hazard.

☐ ii. A Remedial Monitoring Report(s) submitted monthly to address a Condition of Substantial Release Migration.

☐ iii. A Remedial Monitoring Report(s) submitted every six months, concurrent with a Status Report.

☐ iv. A Remedial Monitoring Report(s) submitted annually, concurrent with a Status Report.

c. Status of Site: (check one) ☐ i. Phase IV ☐ ii. Phase V ☐ iii. Remedy Operation Status ☐ iv. Temporary Solution

d. Number of Remedial Systems and/or Monitoring Programs: _____

A separate BWSC108A, CRA Remedial Monitoring Report, must be filled out for each Remedial System and/or Monitoring Program addressed by this transmittal form.

☐ 17. Submit a **Remedy Operation Status,** pursuant to 310 CMR 40.0893.

☐ 18. Submit a **Status Report to maintain a Remedy Operation Status,** pursuant to 310 CMR 40.0893(2).

☐ 19. Submit a **Transfer and/or a Modification of Persons Maintaining a Remedy Operation Status (ROS),** pursuant to 310 CMR 40.0893(5) (check one, or both, if applicable).

☐ a. Submit a Transfer of Persons Maintaining an ROS (the transferee should be the person listed in Section D, "Person Undertaking Response Actions").

☐ b. Submit a Modification of Persons Maintaining an ROS (the primary representative should be the person listed in Section D, "Person Undertaking Response Actions").

c. Number of Persons Maintaining an ROS not including the primary representative: _____

☐ 20. Submit a **Termination of a Remedy Operation Status,** pursuant to 310 CMR 40.0893(6).(check one)

☐ a. Submit a notice indicating ROS performance standards have not been met. A plan and timetable pursuant to 310 CMR 40.0893(6)(b) for resuming the ROS are attached.

☐ b. Submit a notice of Termination of ROS.

☐ 21. Submit a **Phase V Completion Statement,** pursuant to 310 CMR 40.0894.

Specify the outcome of Phase V activities: (check one)

☐ a. The requirements of a Permanent Solution have been met. A completed Permanent Solution Statement and Report (BWSC104) will be submitted to DEP.

☐ b. The requirements for a Temporary Solution have been met. A completed Temporary Solution Statement and Report (BWSC104) will be submitted to DEP.

☐ 22. Submit a **Revised Phase V Completion Statement,** pursuant to 310 CMR 40.0894.

☐ 23. Submit a **Temporary Solution Status Report,** pursuant to 310 CMR 40.0898.

☐ 24. Submit a **Plan for the Application of Remedial Additives** near a sensitive receptor, pursuant to 310 CMR 40.0046(3).

a. Status of Site: (check one)

☐ i. Phase IV ☐ ii. Phase V ☐ iii. Remedy Operation Status ☐ iv. Temporary Solution

C. LSP SIGNATURE AND STAMP:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

> *if Section B indicates that a* ***Phase I, Phase II, Phase III, Phase IV or Phase V Completion Statement*** *and/or a* ***Termination of a Remedy Operation Status*** *is being submitted,* the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> *if Section B indicates that a* ***Phase II Scope of Work*** *or a* ***Phase IV Remedy Implementation Plan*** *is being submitted,* the response action (s) that is (are) the subject of this submittal (i) has (have) been developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> *if Section B indicates that an* ***As-Built Construction Report,*** *a* ***Remedy Operation Status,*** *a* ***Phase IV, Phase V or Temporary Solution Status Report,*** *a* ***Status Report to Maintain a Remedy Operation Status,*** *a* ***Transfer or Modification of Persons Maintaining a Remedy Operation Status*** *and/or a* ***Remedial Monitoring Report*** *is being submitted,* the response action(s) that is (are) the subject of this submittal (i) is (are) being implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. LSP#: 7262

2. First Name: ERIC S 3. Last Name: WOOD

4. Telephone: 978-449-0343 5. Ext.: 6. Email: eswood@environcorp.com

7. Signature:

8. Date: (mm/dd/yyyy) 9. LSP Stamp:

D. PERSON UNDERTAKING RESPONSE ACTIONS:

1. Check all that apply: ☐ a. change in contact name ☐ b. change of address ☐ c. change in the person undertaking response actions

2. Name of Organization: HAFFNER REALTY TRUST

3. Contact First Name: JOANNE 4. Last Name: FOURNIER

5. Street: 2 INTERNATIONAL WAY 6. Title:

7. City/Town: LAWRENCE 8. State: MA 9. ZIP Code: 018430000

10. Telephone: 978-683-2771 11. Ext: 12. Email:

E. RELATIONSHIP TO SITE OF PERSON UNDERTAKING RESPONSE ACTIONS: ☑ Check here to change relationship

☑ 1. RP or PRP ☐ a. Owner ☐ b. Operator ☐ c. Generator ☐ d. Transporter

☑ e. Other RP or PRP Specify: ELIGIBLE PERSON PER MGL CH 21E

☐ 2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

☐ 3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

☐ 4. Any Other Person Undertaking Response Actions Specify Relationship:

F. REQUIRED ATTACHMENT AND SUBMITTALS:

☐ 1. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.

☑ 2. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the submittal of any Phase Reports to DEP.

☐ 3. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the availability of a Phase III Remedial Action Plan.

☐ 4. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the availability of a Phase IV Remedy Implementation Plan.

☐ 5. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of any field work involving the implementation of a Phase IV Remedial Action.

☐ 6. If submitting a Transfer of a Remedy Operation Status (as per 310 CMR 40.0893(5)), check here to certify that a statement detailing the compliance history for the person making this submittal (transferee) is attached.

☐ 7. If submitting a Modification of a Remedy Operation Status (as per 310 CMR 40.0893(5)), check here to certify that a statement detailing the compliance history for each new person making this submittal is attached.

☐ 8. Check here if any non-updatable information provided on this form is incorrect, e.g. Release Address/Location Aid. Send corrections to: BWSC.eDEP@state.ma.us.

☑ 9. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT
Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

G. CERTIFICATION OF PERSON UNDERTAKING RESPONSE ACTIONS:

1. I, _____, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

>if Section B indicates that this is a **Modification of a Remedy Operation Status (ROS),** I attest under the pains and penalties of perjury that I am fully authorized to act on behalf of all persons performing response actions under the ROS as stated in 310 CMR 40.0893(5)(d) to receive oral and written correspondence from MassDEP with respect to performance of response actions under the ROS, and to receive a statement of fee amount as per 4.03(3).

I understand that any material received by the Primary Representative from MassDEP shall be deemed received by all the persons performing response actions under the ROS, and I am aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate or incomplete information.

2. By: _____ 3. Title: _____
Signature

4. For: HAFFNER REALTY TRUST 5. Date: _____
(Name of person or entity recorded in Section D) (mm/dd/yyyy)

☐ 6. Check here if the address of the person providing certification is different from address recorded in Section D.

7. Street: _____

8. City/Town: _____ 9. State: _____ 10. ZIP Code: _____

11. Telephone: _____ 12. Ext.: _____ 13. Email: _____

YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO $10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY:)

APPENDIX O

Public Notification Letters and Published Legal Notice

RAMBOLL ENVIRON

ENVIRONMENT
& HEALTH

Dr. Carl Rosenbloom
Board of Health (Health and Inspection Services)
City of Haverhill
4 Summer Street, Room 210
Haverhill, MA 01830

Phase I Initial Site Investigation and Tier Classification under the MCP
Haffner Realty Trust; 284 Winter Street, Haverhill, MA
MassDEP Release Tracking Number (RTN) 3-32792 and 3-32875

Date April 6, 2016

Ramboll Environ
3 Carlisle Road
Suite 210
Westford, MA 01886
USA

T +1 978 449 0300
F +1 978 449 0301
www.ramboll-environ.com

Dear Dr. Rosenbloom:

A release of oil and/or hazardous materials (OHM) has occurred at the above-referenced location (the "site"), which is a disposal site as defined by M.G.L. c. 21E, § 2 and the Massachusetts Contingency Plan, 310 CMR 40.0000. To evaluate the release, a Phase I Initial Site Investigation (ISI) was completed pursuant to 310 CMR 40.0480. The site has been classified as Tier I pursuant to 310 CMR 40.0500. On April 6, 2016, Haffner Realty Trust filed a Tier I Classification Submittal with the Department of Environmental Protection (MassDEP).

The Tier Classification Submittal and the disposal site file can be viewed at the MassDEP website using Release Tracking Number (RTN) 3-32792 and 3-32875 at http://public.dep.state.ma.us/SearchableSites2/Search.aspx or at MassDEP, Northeast Region Service Center, 205B Lowell Street, Wilmington, MA or by telephone: 978.694.3200. Additional public involvement opportunities are available under 310 CMR 40.1403(9) and 310 CMR 40.1404.

A copy of the public notice per 310 CMR 40.1403(2) and disposal site map are attached to this letter in addition to a copy of the Phase I Conclusions presented in the Phase I ISI report.

To obtain more information on this disposal site, please feel free to contact me.

Yours sincerely,

Eric S. Wood, PHg, PG, LSP
Principal
Environment & Health
D 978.449.0343

Copy: MassDEP: Northeast Region Service Center
Attachment A: Public Notice of Tier Classification
Attachment B: Disposal Site Map
Attachment C: Phase I Conclusions

RAMBOLL ENVIRON

ENVIRONMENT
& HEALTH

Mayor Jim Fiorentini
City of Haverhill
4 Summer Street, Room 100
Haverhill, MA 01830

Phase I Initial Site Investigation and Tier Classification under the MCP
Haffner Realty Trust; 284 Winter Street, Haverhill, MA
MassDEP Release Tracking Number (RTN) 3-32792 and 3-32875

Date April 6, 2016

Ramboll Environ
3 Carlisle Road
Suite 210
Westford, MA 01886
USA

T +1 978 449 0300
F +1 978 449 0301
www.ramboll-environ.com

Dear Mayor Fiorentini:

A release of oil and/or hazardous materials (OHM) has occurred at the above-referenced location (the "site"), which is a disposal site as defined by M.G.L. c. 21E, § 2 and the Massachusetts Contingency Plan, 310 CMR 40.0000. To evaluate the release, a Phase I Initial Site Investigation (ISI) was completed pursuant to 310 CMR 40.0480. The site has been classified as Tier I pursuant to 310 CMR 40.0500. On April 6, 2016, Haffner Realty Trust filed a Tier I Classification Submittal with the Department of Environmental Protection (MassDEP).

The Tier Classification Submittal and the disposal site file can be viewed at the MassDEP website using Release Tracking Number (RTN) 3-32792 and 3-32875 at http://public.dep.state.ma.us/SearchableSites2/Search.aspx or at MassDEP, Northeast Region Service Center, 205B Lowell Street, Wilmington, MA or by telephone: 978.694.3200. Additional public involvement opportunities are available under 310 CMR 40.1403(9) and 310 CMR 40.1404.

A copy of the public notice per 310 CMR 40.1403(2) and disposal site map are attached to this letter in addition to a copy of the Phase I Conclusions presented in the Phase I ISI report.

To obtain more information on this disposal site, please feel free to contact me.

Yours sincerely,

Eric S. Wood, PHg, PG, LSP
Principal
Operations Director - New England
Environment & Health
D 978.449.0343
eswood@environcorp.com

Copy: MassDEP: Northeast Region Service Center
Attachment A: Public Notice of Tier Classification
Attachment B: Disposal Site Map
Attachment C: Phase I Conclusions

NOTICE OF TIER CLASSIFICATION

Haffner Realty Trust

284 Winter St, Haverhill, MA

RTNs 3-32792 and 3-32875

A release of oil and/or hazardous materials has occurred at this location, which is a disposal site as defined by M.G.L. c. 21E, § 2 and the Massachusetts Contingency Plan, 310 CMR 40.0000. To evaluate the release, a Phase I Initial Site Investigation was completed pursuant to 310 CMR 40.0480. The site has been classified as Tier I pursuant to 310 CMR 40.0500. On April 6, 2016, Haffner Realty Trust filed a Tier I Classification Submittal with the Department of Environmental Protection (MassDEP). To obtain more information on this disposal site, please contact: Eric Wood, PHg, PG, LSP, Ramboll Environ, 3 Carlisle Rd, Westford, MA, 01886, or by telephone 978.449.0343. The Tier Classification Submittal and the disposal site file can be viewed at MassDEP website using Release Tracking Number (RTN) 3-32792 and 3-32875 at http://public.dep.state.ma.us/SearchableSites2/Search.aspx or at MassDEP, Northeast Region Service Center, 205B Lowell Street, Wilmington, MA or by telephone: 978.694.3200. Additional public involvement opportunities are available under 310 CMR 40.1403(9) and 310 CMR 40.1404.