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SAMPLING AND ANALYSIS PLAN
FOR
SOUTH TERMINAL CDF
AND
ASSOCIATED DREDGE FOOTPRINT

SAP

COMMONWEALTH OF MASSACHUSETTS

New Bedford, Massachusetts
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1.0 Introduction and Purpose

At the request of USEPA, this Sampling and Analysis Plan (SAP) has been prepared for sampling activities that will be performed to characterize environmental conditions at the proposed South Terminal Confined Disposal Facility (CDF) in New Bedford Harbor. Scoping meetings have been held to discuss the scope of USEPA's request. The first meeting was held at USEPA Region 1 headquarters on October 14, 2010. A subsequent teleconference was held on October 20, 2010. At these meetings, it was clarified that several different USEPA programs are requesting information, and that these programs may require different types of information to fully evaluate the proposed project. It is anticipated that this Sampling and Analysis Plan will meet the needs of the various agencies involved in the decision-making process.

1.1 Project Description

The project site is located within the inner portion of New Bedford Harbor in New Bedford, Massachusetts, as shown on **Figure 1**. A plan showing the proposed footprint of the facility is attached as **Figure 2**.

The proposed South Terminal CDF is a filled structure located adjacent to the shoreline that will be bounded by sheet piling, and capped with crushed stone. Approximately 1,200 linear feet of berthing space will be available at the facility. The area to the east and south of the CDF will be dredged from its current depth of between -1 and -6 Mean Lower Low Water (MLLW) to between -20 and -30 MLLW to accommodate vessels of various sizes. Portions of the existing South Terminal Basin would be dredged from its existing depth of -20 to -25 MLLW to a depth of -30 MLLW in order to construct a channel connecting the new South Terminal CDF boat basin to the federal turning basin north of South Terminal. The size of the facility as envisioned will be 28.25 acres.

Although the design process for the South Terminal CDF has not yet been completed, it is anticipated that both contaminated sediment and clean sediment are present within the proposed project footprint. As previously described the Commonwealth's September 24, 2010 submittal to USEPA, there are a number of potential scenarios by which the design could be completed. The following is a list of potential construction scenarios, and a description of the ways that that each construction scenario would be linked to the State Enhanced Remedy:

- Use of Clean Confined Aquatic Disposal (CAD) Cell Material as Fill for the South Terminal CDF;

- Use of Clean CAD Cell Material and Clean Material from Navigational Dredging as Fill for the South Terminal CDF;

- Use of Clean CAD Cell Material and Clean Material from Navigational Dredging and Contaminated Navigational Dredge Material as Fill for the South Terminal CDF;

- Use of Clean Material from the Navigational Dredging Fill for the South Terminal; and

- Use of Clean Material from Navigational Dredging and Contaminated Navigational Dredge Material as Fill for the South Terminal CDF.

Because of the multiple potential sources of material for fill at the proposed facility, a conservative set of assumptions from the above list was used so that sufficient data could be collected to cover multiple potential construction scenarios.

1.2 Document Purpose

This sampling and analysis plan has been prepared by Apex Companies, LLC (Apex) on behalf of the New Bedford Harbor Development Commission (HDC) and the Commonwealth of Massachusetts for the purpose of investigating the proposed footprint (including upland, intertidal, and sub-tidal locations) of the South Terminal CDF in New Bedford Harbor, New Bedford, Massachusetts.

Due to the potential re-use of material within the construction footprint of the South Terminal CDF, additional data will be collected to characterize the dredge spoils that could be utilized for these purposes. The testing is also intended to characterize levels of contaminants within existing resource areas (inter-tidal, sub-tidal, and salt marsh). The testing is also intended to determine whether past use of the upland areas (within which a former textile factory operated prior to 1930 and possible coal gasification occurred) resulted in a release(s) of oil and/or hazardous materials that may need to be addressed prior to construction of the facility. This is relevant as Section 402 of the Clean Water Act relates to construction stormwater management, and characterization of the upland facility will help determine potential impacts to stormwater during construction. Finally, the testing is intended to characterize the concentrations of contaminants within potential dredge areas, in order to provide additional information regarding potential temporary re-suspension of sediment during dredging operations.

This document is intended to provide a work plan, which describes proposed sampling activities, sampling methods, laboratory parameters and field/laboratory quality assurance/quality control (QA/QC) procedures, as well as sampling frequencies, and a sampling schedule. This Sampling Plan was requested by USEPA, and is intended to be used in the field during sampling activities for characterizing the upland, intertidal, and sub-tidal areas to be filled during the course of construction, as well as the sediment to be dredged for the project.

1.3 Sampling Strategy

This SAP specifies the data collection activities that will be performed to establish baseline conditions at the South Terminal CDF site prior to construction.

The following is a summary of the objectives and scope of the SAP, which were stipulated to satisfy the concerns of specific regulatory programs within USEPA:

For the Upland Facility Construction:

- Sub-tidal and intertidal sediment sample collection at fifteen locations within the facility footprint. Sampling has been designed to characterize the extent of contamination of resources that will be impacted by construction, as well as other potential contaminants of concern (stipulated to satisfy the 401/404, RCRA and TSCA programs);

- Land based geophysical survey within the upland portions of the facility footprint to identify potential subsurface hazards, obstructions and possible sources of hazardous materials (stipulated to satisfy the RCRA program);

- Eight environmental borings and up to 17 test pits within the upland portion of the facility footprint to investigate possible sources of hazardous materials on the land side portion of the site, including any areas of interest which the geophysical investigation may reveal (stipulated to satisfy the RCRA and TSCA programs). A detailed rationale supporting the number and location of monitoring wells, borings, and test pits is included within Sections 3.2 and 4.4;

- The completion of eight soil borings as groundwater monitoring wells within the upland portion of the facility footprint to establish baseline groundwater quality prior to construction and filling of the South Terminal CDF (to satisfy the RCRA and TSCA programs);

- Hydraulic conductivity measurements and tests from sediment collected from inside (sub-tidal and intertidal) and outside of the proposed facility footprint (some tested as-is, some pre-treated prior to testing) to calibrate a model of sediment transport from within the CDF (to satisfy the 401/404 and TSCA programs); and

- Modeling to determine the potential flux of impacted material from a completed South Terminal CDF (to satisfy the 401/404 and TSCA programs).

For the proposed dredge footprint:

- Sub-tidal sediment sample collection from forty-six sampling locations within the dredge footprint focused on delineating the horizontal and vertical extent of PCB

and heavy metal contamination, as well as other potential contaminants of concern (to satisfy the 401/404, RCRA, and TSCA programs).

For air monitoring during the project:

- A baseline and construction air sampling program from four sampling stations to establish baseline conditions prior to construction activities (to satisfy anticipated local public concerns).

The following is a table summarizing the sampling outlined within the subsequent sections of this document:

Table 1: SUMMARY TABLE OF SAMPLING WITHIN THIS DOCUMENT

Purpose of Sampling Sampling Area USEPA Program	Sampling Method	Locations	Samples to be Collected	Samples to Run	Samples Put on Hold	Analyses	Laboratory Detection Limits
Filled Footprint Sub-tidal/Intertidal 401/404, RCRA and TSCA	Russian Peat Corer	10	One sample per foot to refusal.	0 to 1 foot.	All other samples.	PCBs/22 NOAA Congeners (EPA Method 8270C Mod.)	See **Appendix C**
	Russian Peat Corer	5	One sample per foot to refusal.	0 to 1foot.	All other samples.	*0 to 1 foot:* PCBs/22 NOAA Congeners (EPA Method 8270C Mod.), TPH (EPA Method 8015), SVOCs (EPA Method 8270C), 13 Priority Pollutant Metals (EPA Method 6020A/7471), and TCLP (as necessary based upon total metals results). *All other samples:* PCBs/22 NOAA Congeners (EPA Method 8270C Mod.)	See **Appendix C**
Facility Footprint Upland RCRA	Geophysics	N/A	N/A	N/A	N/A	N/A	N/A
Facility Footprint Upland RCRA and TSCA	Boring	8	Minimum one per boring.	Collected Samples.	N/A	PCBs/22 NOAA Congeners (EPA Method 8270C Mod.), TPH (EPA Method 8015), SVOCs (EPA Method 8270C), 13 Priority Pollutant Metals (EPA Method 6020A/7471), and TCLP (as necessary based upon total metals results). Asbestos by PLM (if necessary) and VOCs (EPA Method 8260, if necessary).	See **Appendix C** and N/A for Asbestos by PLM
Facility Footprint Upland RCRA and TSCA	Test Pits	17	Minimum one per test pit.	Collected Samples.	N/A	PCBs/22 NOAA Congeners (EPA Method 8270C Mod.), TPH (EPA Method 8015), SVOCs (EPA Method 8270C), 13 Priority Pollutant Metals (EPA Method 6020A/7471), and TCLP (as necessary based upon total metals results). Asbestos by PLM (if necessary) and VOCs (EPA Method 8260, if necessary).	See **Appendix C** and N/A for Asbestos by PLM
Facility Footprint Upland RCRA and TSCA	Monitoring Well	8	One sample per monitoring well.	Collected Samples.	N/A	PCBs/22 NOAA Congeners (EPA Method 8270C Mod.), SVOCs (EPA Method 8270C), and 13 Priority Pollutant Metals (EPA Method 6020A/7471), and VOCs (EPA Method 8260). MAEPH and MAVPH if necessary.	See **Appendix C**

Purpose of Sampling Sampling Area USEPA Program	Sampling Method	Locations	Samples to be Collected	Samples to Run	Samples Put on Hold	Analyses	Laboratory Detection Limits
Facility Footprint Upland/Intertidal 401/404 and TSCA	Slug Testing	8	N/A	N/A	N/A	Slug Test	N/A
	Russian Peat Corer	8 (2 mixed with additives)	8 samples (2 mixed with additives)	Collected samples.	N/A	ASTM 2434 (coarse-grained material) or ASTM D 5084 (fine-grained material), depending upon sample type plus grain size and porosity.	N/A
Facility Footprint Upland 401/404 and TSCA	Modeling	N/A	N/A	N/A	N/A	Visual Modflow	N/A
Dredge Area Sub-tidal/Intertidal 401/404, RCRA and TSCA	Russian Peat Corer	31	One sample per foot to refusal.	0 to 1 foot.	All other samples.	PCBs/22 NOAA Congeners (EPA Method 8270C Mod.)	See **Appendix C**
	Russian Peat Corer	10	One sample per foot to refusal.	0 to 1 foot.	All other samples.	*0 to 1 foot:* PCBs/22 NOAA Congeners (EPA Method 8270C Mod.), TPH (EPA Method 8015), SVOCs (EPA Method 8270C), 13 Priority Pollutant Metals (EPA Method 6020A/7471), and TCLP (as necessary based upon total metals results). *All other samples:* PCBs/22 NOAA Congeners (EPA Method 8270C Mod.)	See **Appendix C**
	Vibracore	5	One sample per foot to refusal.	All samples.	N/A	PCBs/22 NOAA Congeners (EPA Method 8270C Mod.), Copper, Chromium, and Zinc (EPA Method 6020A)	See **Appendix C**
Dredge Area Water Column 401/404, RCRA, and TSCA	Kemmerer Sampler or Peristaltic Pump	4	12 samples (3 water depths per location)	All Samples.	N/A	Turbidity, PCBs/22 NOAA Congeners (EPA Method 8270C Mod.), TPH (EPA Method 8015), SVOCs (EPA Method 8270C), and 13 Priority Pollutant Metals (EPA Method 6020A/7471).	See **Appendix C**
Facility Footprint Air Monitoring TSCA	Baseline	1	One sample per week for 3 weeks.	5 Samples (3 plus 1 blank and 1 dup)	N/A	10 PCB Homologues (EPA Method 1668A)	0.1 ng/m3
	During Construction	4 (3 onsite, 1 to southeast of site)	Once per month.	6 Samples (4 plus 1 blank and 1 dup) per event	N/A	10 PCB Homologues (EPA Method 1668A)	0.1 ng/m3

Sampling is proposed within the dredge footprint on a grid spacing of approximately 120 feet, and within the inter-tidal and sub-tidal portions of the proposed CDF filling area on a grid spacing of approximately 150 feet (**Figure 3** shows sub-tidal and inter-tidal sample locations). This grid spacing results in approximately sixty-one (61) sample locations within the sub-tidal and inter-tidal areas. Samples for 401 Water Quality Parameters are targeted to locations within the vicinity of either CSOs or stormwater discharge points are known or suspected of having existed at one point in time.

Assuming the contaminated thickness of material is an average of two (2) feet thick within the area to be dredged (which, for 15.39 acres, equates to approximately 49,700 cubic yards) and is an average of one (1) foot within the area to be filled (which, for 6.39 acres, equates to approximately 10,300 cubic yards), the average sample location frequency on a volumetric basis is approximately one sampling location per 1000 cubic yards of contaminated material (61 sampling locations/60,000 cubic yards), which is consistent with recommended sampling frequencies for 401 Water Quality Certifications for projects involving reuse of dredged sediment within the Commonwealth of Massachusetts. Please note that this only represents a ratio of sampling frequency to contaminated material. More than one sample will be collected at each sample location, and more than one sample will be analyzed at multiple locations (as outlined below).

Quality control measures will be utilized to ensure data quality during the sampling, documentation, and analysis portions of this program. Quality control procedures are discussed in the sample collection section of this document.

2.0 Project Organization and Responsibilities

Apex Companies LLC will follow a well defined project management organization so that project goals are met during both the field sampling and the laboratory testing portions of the Sampling Plan. Project staff will be integrated into a project team, with individual members contributing their area of expertise to the overall sampling plan under the supervision of a single project manager.

2.1 Project Organization and Key Personnel

The personnel identified below are considered to be key members of the site characterization project team. The team will maintain an open communication line between the Client, Apex and the regulatory bodies which are engaged in the review process.

Mr. Jay Borkland is the Program Manager for the South Terminal CDF project at Apex Companies LLC. The Program Manager will be responsible for interacting with the regulatory bodies, and the client in resolving any issues which arise prior to and during the sample collection and analysis phase. Mr. Borkland will also ensure that the sampling plan is executed in conformance with this Plan through the Project Manager.

Mr. Chet Myers, P.E. is the Project Manager for the South Terminal CDF project and will oversee the overall project design including the site investigation. Mr. Myers will implement the geotechnical, geophysical, and environmental investigations of the project site. As Project Manager, he will also manage the analytical laboratories for the geotechnical, water, groundwater, sediment, and air samples collected as described in this document. The field staff will report directly to Mr. Myers.

3.0 Existing Information

3.1 Existing Sediment Data

Sediment sampling and analysis data in New Bedford Harbor, both within the footprint of the proposed facility (and associated dredge area), as well as within other locations between the Route 6 bridge and the New Bedford Hurricane Barrier, has been collected and reviewed in order to provide an indication of sediment characteristics in the proposed South Terminal CDF area. The New Bedford Harbor Development Commission collected multiple sediment samples during the New Bedford Harbor Phase III Navigational Dredging, completed in 2009. Sampling and chemical analyses were also conducted from multiple areas during the New Bedford Harbor Dredge – Phase II, completed in 2005. Additional data was collected and analyzed by USEPA during its New Bedford Superfund Site Remedial Investigation. The existing sediment characterization data indicates that the surficial sediment may contain elevated levels of TPH, metals, PAHs and PCBs. Tables containing historic data, as well as figures indicating the collection location of this data are attached as **Appendix A**.

The existing sediment characterization data is inadequate for the purposes of meeting the goals outlined above. Therefore, new data must be collected from within the proposed dredge area, and area to be filled, to adequately characterize the sediment to be dredged and disposed as well as the upland portions of the facility that will be filled and covered. The following sections discuss the sample collection and analysis protocols that will be performed in order to obtain the additional data required.

Historic information has indicated the presence of several current or former CSOs, current or former historic drain lines or potential locations of former CSOs or drain lines. The locations of five (5) existing or former drain lines/CSOs are shown on **Figure 3**. The locations of the five former or current lines are as follows:

1. One existing CSO discharges at the northern-most end of the existing South Terminal bulkhead.
2. One existing CSO discharges at the approximate mid-point of the existing South Terminal bulkhead.
3. A right-of-way for an existing drain line currently runs across the northern boundary of the footprint of the proposed facility.
4. Historic information indicates that a 72-inch drain line either currently or historically may have discharged at the corner of the southern end of the existing South Terminal bulkhead.
5. A 30-inch diameter drain line and former CSO discharges runs parallel to the southern boundary of the proposed facility.

These five existing or former drain lines/CSOs could have been historic sources of impacts to sediment.

3.2 Existing Upland Information

The upland properties to be included in the South Terminal CDF were historically part of the Potomska Mill complex from the 1880's to the 1930's. The Potomska Mill complex supported the textile industry during this time period. The mill buildings have been demolished, and from about 1946 through 1966 the property and surrounding lots existed as urban, filled, undeveloped open space. The New Bedford Redevelopment Authority acquired the former mill complex in 1998, and subsequently subdivided it and sold off portions for redevelopment (the various parcels that are referred to as the "Standard Times Field Area"). The following four parcels of the former mill complex are included in the proposed South Terminal CDF (see **Figure 4**):

1. An undeveloped 9.2 acre parcel currently owned by the City of New Bedford (Map Number 25A/Lot Number 48);

2. Two adjacent undeveloped parcels totaling 3.4 acres owned by the Commonwealth of Massachusetts (referred to as a single site for the purposes of this document – (Map Number 25A/Lot Number 49 and Map Number 25A/Lot Number 53);

3. A 2.9 acre developed site currently owned by the Shuster Corporation (Map Number 31/Lot Number 263); and

4. A 6.4 acre undeveloped site currently owned by RIST LLC (a Limited Liability Corporation owned by Richard and Steven Shuster), commonly referred to as "the Shuster vacant lot" (Map Number 31/Lot Number 288).

Available historical information has been reviewed as part of this SAP including the following documents which are attached to this Plan as references:

- An EDR Radius map of the area, which includes research into local, state, and federal databases of known spills and releases, historic USGS maps of the area, historic aerial photos, and historic Sanborn Fire Insurance Maps (attached as **Appendix D**);

- Additional historic Sanborn Fire Insurance Maps of the area, dating from 1888 to 1995 (attached as **Appendix E**);

- A Class 3 Response Action Outcome for 16 Blackmer Street (one of the parcels to be included in the South Terminal CDF), prepared by Common Sense Environmental, for the Commonwealth of Massachusetts Department of Fish and Game, dated March 17, 2009 (attached as **Appendix F**);

- A Limited Environmental Site Assessment, prepared by CLC Consulting Group, for Mr. Stephen Shuster, for the Shuster Vacant Lot, dated April 28, 2006 (attached as **Appendix G**); and

- A Draft Brownfields Targeted Site Assessment (BTSA), prepared by Metcalf & Eddy, for USEPA Region 1, for the Standard Times Field Property, dated January 20, 2000 (attached as **Appendix H**).

The following is a summary of the existing information obtained from the above-mentioned reports:

9.2 Acre City of New Bedford Property

This property extends along the coast line of approximately ½ of the proposed facility. Historic information (see **Appendix F**) indicates that the high-water mark in this section of New Bedford Harbor has changed significantly since the early- to mid- 1800s. It is not clear whether the coastline has been improved via natural forces, or fill, or a combination of the two.

3.4 Acre Commonwealth of Massachusetts Properties

The Class 3 Response Action Outcome Statement (**Appendix F**) indicates that the Commonwealth of Massachusetts site has undergone assessment and closure activities under the Massachusetts Contingency Plan (MCP). The MCP Response Action Outcome (RAO) statement was prepared in March 2009 that included an Activity and Use Limitation (AUL) for a portion of the property. The AUL was implemented due to elevated residual levels of lead and polycyclic aromatic hydrocarbons (PAHs) in the shallow soils on the site. Conditions in the AUL include maintenance of a parking lot on the property to limit exposure potential to these soils. A number of test pits, borings, and monitoring wells were advanced during this investigation (see **Figure 4**), and samples were analyzed for VPH/EPH, VOCs, SVOCs, Metals, PCBs, Pesticides, Asbestos, and Cyanide.

- In general, contaminants of concern (COCs) for the Commonwealth of Massachusetts site include lead and SVOCs, which are typical COCs for urban sites that have been filled;

- The contamination detected on this property was attributed to the urban fill that was historically placed on this lot;

- Groundwater was encountered at depths ranging from approximately 3 to 5.5 feet below ground surface;

- A portion of the former Potomska Mills complex extended onto these two

properties, based on historic Sanborn Fire Insurance Maps (see **Figure 4**); and

- Polychlorinated biphenyls (PCBs) were detected in one groundwater sample collected at the Commonwealth of Massachusetts site; however, subsequent re-testing of the groundwater did not confirm the original testing results.

2.9 Acre Shuster Corporation Site

This parcel of land is currently incorporated into the existing South Terminal bulkhead. The majority of the site is paved. A 20,000 square foot building located on this parcel is currently operated by the Shuster Corporation. The Shuster Corporation supplies parts and industrial supplies to commercial and industrial entities. Products supplied include ball bearings, conveyors, compressors, couplings, oil filters, lubricants and dispensing equipment, oil recovery systems, gauges, hoses, fittings, and jet equipment. The building primarily operates as a warehouse; however, it is possible that some repairs may take place within the building.

6.4 Acre Shuster Vacant Lot

A significant portion of the footprint of the former Potomska Mills complex was located within the Shuster Vacant Lot (see **Figure 4**). Sanborn Fire Insurance maps indicate various structures on the property including what appears to be an above-ground storage tank (possible gasometer) and boilers that are indicative of possible coal gasification processes. Other site buildings contain notes that may indicate the presence of a furnace, and weaving buildings.

The mill buildings were demolished sometime between the 1930s and the mid-1940s. Reviewed information did not detail demolition activities and whether foundations or bottoms of structures (e.g., gasometer) were removed or just buried in place which was a common practice historically. Aerial photos from 1961 and 1974 show no activity at the site. An aerial photo taken in 1985 shows a depression filled with water (**Appendix D**). It is currently unclear as to the source of this water and this feature is not present in the aerial photos taken in 1992 or 1995.

The Schuster Vacant Lot has undergone assessment only (under a limited Environmental Site Assessment) and has not reached regulatory closure under the MCP. The following is a summary of relevant findings from the investigations conducted to date at the Shuster vacant lot:

- In general, contaminants of concern (COCs) for the Schuster vacant lot included lead and PAHs, which are typical COCs for urban sites that have been filled;

- Bulk asbestos containing material (ACM) was confirmed in one soil sample from boring B-6;

- The contamination detected on this property was attributed to the urban fill that was historically placed on this lot; and

- Groundwater was encountered at depths ranging from approximately 3 to 5.5 feet below ground surface.

Based on historical Sanborn Map information which indicates potential coal gasification activities (gasometer), the potential contaminants of concern include SVOCs, petroleum-related compounds, VOCs, cyanide, PCBs and metals. The detection of bulk asbestos in one sample may have been associated with piping wrap or other structures that were insulated such as the historical boilers and furnaces at the site. The potential COCs are incorporated into the Sampling and Analyses Plan for samples to be collected from the Shuster Vacant Lot portion of the site.

Standard Times Field Property

The BTSA performed by Metcalf & Eddy covered a 25.5 acre property referred to as the Standard Times Field Property which includes the site that is the subject of this Sampling Plan. Much of the information contained in this report is summarized above such as the Potomska Mills complex on the northern portion of the site and the site features that indicate coal gasification activities potentially occurred on the northern portion of the site. The following is a summary of other information contained in the report, some of which is described above.

- Lead and PAHs were detected above MCP Reportable Concentration (RCs) on the southern portion of the site. PCBs were also detected in groundwater above RCs in the same general area where stressed vegetation was observed. This area was subsequently the subject of additional environmental investigations under the MCP and an AUL was applied to the area where MCP regulatory standards were exceeded in soil and/or groundwater;

- PCBs, PAHs and metals were detected at concentrations below applicable MCP RCs at various locations across the property. The source of PCBs was not identified and the PAHs were attributable to coal and coal ash observed in the fill and historic operations which included coal use;

- Fill materials were observed on the southeastern portion of the site. A prior consultant indicated the fill may have been dredged material, however, M&E indicated the fill appeared to be indicative of demolition debris, possibly from the former mill complex. The report further indicated buried building materials, if present, may contain asbestos containing materials; and

- Other features such as a reported 150,000-gallon UST were indicated in the report. However, this UST is outside the site area subject to this Plan.

4.0 Sampling and Analytical Program

4.1 Dredge Areas

4.1.1 Sample Collection

The proposed sample locations within the sub-tidal areas within the dredge footprint have been selected based on existing data in order to provide sufficient characterization information prior to construction. The following sub-tidal areas are anticipated to be effected by dredging:

- Areas of Dredging (Existing Depth Between -1 and -6 MLLW):
  - 9.0 acres of near-shore, sub-tidal area will be dredged to between -20 and -30 MLLW (6.65 acres to -20 MLLW and 2.35 acres to -30 MLLW); and

- Areas of Dredging (Existing Depth between -20 and -25 MLLW):
  - 6.39 acres of subtidal area will be dredged to -30 MLLW.

4.1.2 Vertical Delineation

"Parent" material consists of a number of different combinations of silt, sand, gravel or rock. "Parent" geological material was formed and placed during the advancement and recession of the glaciers, approximately 13,000 years before industrial activity of man. Therefore, "parent" material would not normally be expected to contain anthropogenic contaminants. Contaminated material would typically have formed as a layer of fine-grained material that has deposited within New Bedford Harbor over the last several hundred years. Contamination within New Bedford Harbor, particularly the areas located to the south of the Coggeshall Street Bridge, has been shown to typically be present within the top one to two feet of dredge material.

When making a "Suitability Determination" for offshore disposal of "parent" material, U.S. Army Corps of Engineers (USACE) determines the delineation between "parent" and non-"parent" materials utilizing the following indicator constituents: PCBs, Copper, Chromium and Zinc. The concentrations of these indicator constituents indicate the depth at which the transition from "parent" to non-"parent" material occurs. Attached as **Appendix B**, are tables previously utilized to delineate between "parent" and non-"parent' material during the "Suitability Determination" process for CAD Cell #2.

In order to determine vertical delineation between "parent" and non-"parent" material within the proposed dredge footprint, five (5) vibracores will be advanced. The vibracores will be advanced to refusal, and the recovered material will be sampled at one-

foot intervals for PCBs (PCB Congeners by Modified EPA Method 8270C), Copper, Chromium, and Zinc (EPA Method 6020A). Sediment will be logged in the field in accordance with ASTM 2488-93 "Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)." The locations of the vibracores are indicated on **Figure 3**. A summary of proposed analyses, matrices, methods, reporting limits, and number of samples/locations is shown in **Table 1** in **Section 1.3**.

4.1.3 Horizontal Delineation

Other than the five (5) vibracore locations, discussed within Section 4.1.2, samples will be collected using a Russian Peat Corer. A Russian Peat Corer is a hand-operated, mechanical sampling device that utilizes a side-filling mechanism to collect uncompressed samples from wetlands and estuaries. The chambered-type corer collects samples which are not compressed or shortened during recovery, unlike samples taken with end-filling core samplers. The corer is deployed (in the closed position) to the desired depth. The corer is rotated clockwise 180° so that the sharpened edge of the chamber cuts a sediment core which is contained by the cover plate. During retrieval, the cover plate's counterclockwise rotation extrudes the undisturbed sample. This mechanism will be utilized to collect samples at one-foot intervals until refusal at locations indicated on **Figure 3**, except where a vibrocore sample is scheduled. Approximately 41 locations will be sampled utilizing a Russian Peat Corer.

The location of former CSOs and stormwater discharge points are noted on **Figure 3**. Samples have been targeted to analyze the areas immediately in front of these former and existing discharge points within the proposed dredge footprint in order to delineate any historic contamination associated with these points. A summary of proposed analyses, matrices, methods, reporting limits, and number of samples/locations is shown in **Table 1** in **Section 1.3**.

4.1.4 Sample Collection Method

Samples will be collected at each sampling station until refusal. The sampling will be lead in the field by an experienced sediment sampler. This Field Operations Lead (FOL) will have discretion (within the parameters of this sampling plan) to make decisions in the field concerning the sampling program. Sampling will be conducted from a research vessel equipped with an "A-frame" and appropriate sampling and positioning equipment. As-built sample locations will be documented using a Global Positioning System (GPS).

Once the sampling vessel is in position, the as-built coordinates and water depth will be logged. The vibracore unit or the Russian Peat Corer will be deployed where noted on **Figure 3**. Samples will be collected at one-foot intervals.

4.1.5 Water Column Testing

In order to determine what risk to the environment may be posed by sediments suspended in the water column during construction activities, up to twelve water column samples will be collected at the site in four locations. The locations of these samples are indicated on **Figure 3**. A summary of proposed analyses, matrices, methods, reporting limits, and number of samples/locations is shown in **Table 1** in **Section 1.3**. During dredging, pile-driving, and filling activities it is expected that there will be a localized increase in the volume of suspended sediment in the water column. Water and sediment samples will be collected to assess potential contamination in the water column that may affect the water quality at the site. Water and sediment samples will be analyzed for turbidity (utilizing a real-time turbidity meter) and PCBs (22 NOAA Congeners by Modified EPA Method 8270C), 13 Priority Pollutant Metals (EPA Method 6020A/7471), SVOCs (EPA Method 8270C), and Total Petroleum Hydrocarbons (EPA Method 8015) (utilizing an analytical laboratory).

Water samples will be collected from the proposed dredge area from approximately two (2) feet below the water surface, the approximate midpoint of the water column, and approximately two (2) feet off the bottom (i.e., two feet above the sediment) to provide a representative sample of pre-dredge conditions at the site. A discrete interval water sampling device such as a Kemmerer sampler or a peristaltic pump will be used to collect the water sample. Efforts will be made to ensure that there is not contamination from surface sheens or other sources while the sample is being collected or the device is being lowered into the water. The collection point will be recorded and noted using a portable GPS device. The water will be placed directly from the sampling device or pump tubing into clean laboratory supplied glassware, sealed and placed in a cooler and transported to the laboratory in accordance with Section 4.3.2 of this document.

4.2 Filled Facility – Sub-Tidal and Inter-Tidal Areas

4.2.1 Sample Collection

The proposed sample locations within the sub-tidal and inter-tidal areas have been selected based on existing data in order to provide sufficient characterization information prior to construction. The following sub-tidal and inter-tidal areas are anticipated to be effected by either filling or dredging:

- Areas of Proposed Filling:
    - 1.43 acres of intertidal area,
    - 4.73 acres of shallow, near-shore sub-tidal area; and
    - 0.18 acres of salt marsh will be filled during the construction of the facility.

4.2.2 Horizontal Delineation

Samples will be collected using a Russian Peat Corer. See Section 4.1.3 for a description of this device. This mechanism will be utilized to collect samples at one-foot intervals until refusal at locations indicated on **Figure 3**. Approximately 15 locations will be sampled utilizing a Russian Peat Corer.

The location of former CSOs and stormwater discharge points are noted on **Figure 3**. Samples have been targeted to analyze the areas immediately in front of these former and existing discharge points within the proposed filling area in order to delineate any historic contamination associated with these points. A summary of proposed analyses, matrices, methods, reporting limits, and number of samples/locations is shown in **Table 1** in **Section 1.3**.

4.2.3 Sample Collection Method

Samples will be collected at each sampling station until refusal. The sampling will be led in the field by an experienced sediment sampler. This Field Operations Lead (FOL) will have discretion (within the parameters of this sampling plan) to make decisions in the field concerning the sampling program. Sampling will be conducted from a research vessel equipped with an "A-frame" and appropriate sampling and positioning equipment. As-built sample locations will be documented using a Global Positioning System (GPS).

Once the sampling vessel is in position, the as-built coordinates and water depth will be logged. The vibracore unit or the Russian Peat Corer will be deployed where noted on **Figure 3**. Samples will be collected at one-foot intervals.

4.3 Dredge and Fill Area Sampling Logistics

4.3.1 Sampling Schedule

The proposed sampling fieldwork is anticipated to be conducted over a three-week period. Chemical analysis will begin within the first week of sampling, and is expected to take approximately three weeks per sample. Sampling results will be submitted approximately two weeks after all analytical results have been reported.

4.3.2 Sample Handling

Sampling equipment will be cleaned following standard decontamination procedures prior to individual sample collection. Sediment samples will be logged and visually characterized prior to being transferred to laboratory-supplied pre-cleaned and pre-preserved jars. Samples will be stored at 4 degrees Celsius in sample coolers on the

vessel prior to shipment to the laboratory.

Samples for chemical analysis will be stored on ice from the time of sample collection until they are delivered to the laboratory. Samples will be collected and placed in the appropriate container for each analytical method and sealed with the lid. The sealed container will then be labeled with indelible ink, with the sample location, depth interval and time of collection. Sample containers will then be wrapped in protective shipping material (such as bubble wrap) and be placed in a cooler with ice. Ice will be placed in and around the samples to ensure uniform and quick chilling. Chemical ice shall not be used.

At the completion of daily sample collection events, all of the samples will be added to the Chain of Custody form with appropriate analytical testing methods noted. The Chain of Custody will be placed in a sealable watertight plastic bag, and affixed to the lid of the cooler. The cooler lid will be closed tightly, and taped shut with clear packing tape. Sample coolers will be shipped via courier or by overnight express service to an EPA certified laboratory for analysis. Standard quality control and quality assurance (QA/QC) samples (including field and matrix spike duplicates) will be collected as part of the sampling protocol.

4.3.3 Sampling Quality Control

QA/QC duplicate samples will be collected at the rate of up to one duplicate for every ten samples per sample matrix (with the possible exception of elutriate testing, depending upon field and laboratory requirements). Samples will be collected and labeled in such a manner as to make them easily associated with the primary samples.

Sediment samples which are to have duplicate samples generated from them, will be homogenized prior to being split into the primary and duplicate sample. Primary and duplicate samples will be transported and stored in the same manner. All duplicate samples will be run by the laboratory as “blind” samples.

Up to one half of the duplicate samples will be analyzed by a different analytical laboratory to provide analytical quality assurance for the project.

4.3.4 Sample Analysis

The analytical testing program will address chemical characterization of the sediment within the dredge footprint as well as within the inter-tidal and sub-tidal areas to be filled. Samples will be sent to an offsite chemical analysis laboratory. Samples will be hand-delivered or couriered to the laboratory in sample coolers in order to maintain appropriate sample conditions. Samples requiring physical characterization will be sent to a qualified geotechnical laboratory.

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4.3.4.1 Chemical Analysis

Sampling of five (5) vibracores will be performed as previously stipulated. Samples from within the dredge areas or the filled facility footprint, fifty-six (56) other locations, will be collected on one foot intervals from the surface to refusal for PCBs (22 NOAA Congeners by Modified EPA Method 8270C) at each sample location. Surface samples (samples collected from 0 to 1 foot) from fifteen (15) of the fifty-six (56) locations (five locations within the area to be filled and ten locations from within the dredge footprint) will also be analyzed for 13 Priority Pollutant Metals (EPA Method 6020A/7471), SVOCs (EPA Method 8270C), and Total Petroleum Hydrocarbons (EPA Method 8015); four (4) of the ten (10) locations from within the dredge footprint will also be locations for water column elutriate testing. Should the metals analyses indicate a concentration above the "20 times rule" TCLP analyses will be performed on that metal. The location of each suite of analyses from within the dredge areas or within the inter-tidal or sub-tidal areas of the filled areas will be performed is indicated on **Figure 3**.

Analytical parameters for the samples were selected based on guidelines established during discussions with USEPA.

Of the fifty-six (56) sampling locations, the surface samples (samples collected from 0 to 1 foot) will be analyzed immediately. Samples collected at deeper intervals will be put on ice at the laboratory. Once the delineation line between "parent" and non-"parent" material has been determined, the following procedures will be initiated:

1. The delineation between "parent" and non-"parent" material will be established using the data from the five (5) vibracores within the dredge areas;

2. Of the 41 other sampling locations within the dredge footprint, approximately 6 locations (which represents 10% of the total number of sampling locations) that contain the highest concentration of PCBs will be identified; and

3. In those 6 locations, samples collected from below the "parent"/non-"parent" horizon will also be run for PCBs, in order to confirm that PCBs have not infiltrated into "parent" material.

Standard turnaround time for all analytical parameters is 14 business days. Samples collected will be analyzed by a laboratory for a standard analytical turnaround time. Additionally, all sediment samples may be frozen to increase the holding time for up to one year. A summary of proposed analyses, matrices, methods, reporting limits, and number of samples/locations is shown in **Table 1** in **Section 1.3**.

4.3.4.2 Laboratory Methods

Samples will be sent to a laboratory. Chemical analytical methods will be performed in

accordance with USEPA protocol. Laboratory methods for the proposed analyses are shown above.

4.4 Filled Facility - Upland Areas

Upland areas will be characterized to assess the potential for previously undisclosed or undiscovered oil and/or hazardous material releases, as well as to characterize existing soils at the site, in order to evaluate potential impacts to storm-water during construction, as regulated under Section 402 of the Clean Water Act.

Based on the review of existing upland historic information (outlined in **Section 3.2**), the following items have been identified as areas of concern that require investigation:

9.2 Acre City of New Bedford Property

- Historic information indicates that this area has been filled either through natural deposition or via anthropogenic means. It is prudent to advance borings and/or test pits in this area to assess the quality of the fill material and determine the presence of PCBs (from historic deposition, or man-deposited material), metals, SVOCs, and possible asbestos containing materials (from possible filling using demolition debris from the former mill complex).

3.4 Acre Commonwealth of Massachusetts Properties

- This area has been previously characterized by several soil borings and test pits (see **Figure 4**). One groundwater sample was collected from this area, which is the subject of a MCP AUL, indicated PCBs in groundwater at a level above its MCP regulatory standard. The TSCA program has indicated that additional assessment of the presence of PCBs in groundwater is needed to confirm or rebut the presence of PCBs in groundwater.

2.9 Acre Shuster Corporation Site

- This parcel is an active commercial/industrial site where lubricants, cleaning products, fuels, and other potential contaminants have been identified as materials provided by the current business. This area should be assessed to determine whether activities in this area have impacted soil and/or groundwater quality; and

- The warehouse has loading docks at each end of the building where the aforementioned materials are loaded and unloaded. While spills have not been identified in these areas, subsurface explorations area recommended to assess potential impacts to the subsurface.

6.4 Acre Shuster Vacant Lot

- The former Potomska Mills complex is a potential source of impacts to the environment. Existing information did not indicate what oils and/or hazardous materials were used at the mill, however, dyes used in the textile industry could contain metals and machinery could have been cleaned using solvents containing VOCs. PCBs are potential contaminants that could have been present at the facility in transformers. SVOCs and VOCs are typical contaminants associated with former coal gas holders or coal bins, and petroleum hydrocarbons could have been used as a fuel source for the boilers and furnaces, etc., asbestos containing materials may have been present for piping insulation, gaskets, and other types of materials for insulation;

- Potential impacts to the subsurface at the former Potomska Mills may have occurred beneath the former floors as the integrity and/or composition of former flooring is not known and through floor drains or possible sumps. There is also the potential for buried foundations that are coated and/or contain asbestos containing materials. Areas within this area and across the site may have been filled with demolition debris from the former mill complex;

- As mentioned in the previous bullet, asbestos containing materials may have been associated with debris from the demolition of the facility that may have been placed within the foundation of the buildings. Pipe runs for the building(s) may also have had asbestos insulation;

- At least one structure noted on the Sanborn Fire Insurance Maps of the former mill complex appears to be an above-ground storage tank that was possibly a gasometer (a gas holder). It was not uncommon during decommissioning of these structures to bury the base of the gas holders in place. Soil and groundwater quality in the area of this apparent tank should be assessed as well as the general quality of the fill material across the site;

- Areas either identified as, or appear to be, a boiler room, machine shop, and engine room (as noted on the Sanborn Fire Insurance Maps) should be assessed;

- An unidentified depression, shown on a 1985 aerial photograph, that appears to be filled with water should be investigated to assess soil and groundwater quality in this area; and

- Pipe runs associated with the facility could be potential sources of asbestos containing material and should be assessed.

Standard Times Field Property

- This study area included adjacent lots as well as the site properties summarized

above. Of note were observations of fill materials by others on the south-southeast portion of the site that reportedly contained possible demolition debris that may be related to former mill buildings. Soil and fill quality should be assessed in the area of the site.

Based upon these areas of concern, a series of subsurface explorations, including a geophysical investigation, test pits, borings, and monitoring wells are proposed below, as outlined on **Figure 4**, and as described in more detail in the following sections.

Test Pits		
Location Identification	**Area of Concern**	**Rational**
TP1. TP2, TP3, TP8 and TP12	Mill weaving complex	Assess potential impacts by former machinery, oils, etc. associated with historical mill weaving operations Assess whether building foundations have been left in place and quality of the fill material.
TP4, TP6 and TP7	Boiler Room, Machine Shop, Engine Room.	Area where petroleum-related products may have been used and may contain buried structures and vessels. Assess quality of fill in this area.
TP11, TP13, TP14 and TP15	Large circular structure that appears to be former AST and other possible tank structure. May have been gasometer(s).	Coal gasification activities may have occurred at site as indicated by gasometer. Assess whether base of structures have been buried in place, and the presence of waste products and building debris. Assess quality of fill in this area.
TP9 and TP10	Former weaving building and adjacent area. Former building that covers significant portion of site.	Characterization of quality of fill materials is lacking, and processes within historic building that presumably used oils, lubricants and potentially hazardous materials.
TP5, TP16 and TP17	East-southeastern area of site – reported demolition debris in fill	Area where prior reports indicate filling with possible demolition debris from former mill complex. Assess quality of fill in this area.
Test Borings/wells		
B1 ad B2	Area of loading docks at Schuster warehouse	Assess the potential for possible spills of oil and/or hazardous materials.
B3 and B4	Areas of Boiler Room, Machine Shop, Engine Room.	Evaluate soil and groundwater quality in area of and adjacent to former structures.
B6	Downgradient/adjacent to large structure that appears to be an AST and possible gasometer	Evaluate soil and groundwater at in area of former structures
B5 and B7	In area of PCB detection in groundwater during prior work and downgradient location of former mill complex	Evaluate soil and groundwater quality in area where PCBs were detected in groundwater during prior work at the site and downgradient of former structures.

4.4.1 Geophysical Investigation

A geophysical investigation is a non-intrusive means of quickly gathering subsurface information, over a large area, on subsurface anomalies/structures that may contain and or be indicative of contamination, including asbestos-covered piping and other building debris possibly containing asbestos that may not be located within the former building footprint or other targeted locations for investigation as well as remnants of buried tanks and fill areas containing potentially unsuitable materials.

Geophysical investigations will be performed on the upland areas of the South Terminal CDF. The geophysical survey will be conducted of the entire property using Time Domain Electromagnetics (TDEM) followed by Ground Penetrating Radar (GPR). GPR will be used in conjunction with TDEM data to better characterize electromagnetic anomalies. The purpose of the investigation is to provide information on the character and conditions of the subsurface within the boundaries of the proposed project. The information will allow:

- Hazard screening of the soils underlying the project site and targeting of borings and test pits in areas where geophysical signatures suggest hazardous materials (if any are found) may exist; and

- Utility and other obstruction identification of the uplands prior to placement of fill material.

The investigation will aid in determining whether any infrastructure which may have serviced the mill remains below the ground surface. Geophysical methods may reveal the presence of underground storage tanks, metallic pipelines, and extent of buried debris, foundations, and voids. As previous investigations at the site have identified bulk ACM, which is likely associated with building demolition debris, it is anticipated that buried debris would be the likeliest location for the presence of any additional ACM onsite. The geophysical survey information will be used with complementary geotechnical data in characterizing the subsurface site conditions. The geophysical information will be used in conjunction with the historical site information gathered from the review of the readily-available existing information outlined in **Section 3.2**.

During the geophysical investigation and subsequent test pit program, observations will be made as to the presence of bulk ACM. Following guidance contained in draft regulations prepared by the Massachusetts Department of Environmental Protection Bureau of Waste Prevention and Waste Site Cleanup (dated October 11, 2007), Apex will visually survey the property for visible asbestos source material (VASM) including but not limited to abandoned building components and structures. Should VASM or suspected VASM be observed, a sample will be collected to confirm its presence. Confirmation will include submission of a sample for analysis by Polarized Light Microscopy (PLM) at an appropriate laboratory. Should ACM be confirmed, Apex will estimate the volume of the ACM. If required, Apex will notify the City of New Bedford,

and an asbestos removal action will be undertaken with approval from the Department of Environmental Protection and in accordance with other applicable State and local requirements.

4.4.2 Sample Collection

Test pits and soil borings (which will be completed as monitoring wells) will be advanced in order to assess selected target areas for potential impacts to soil and groundwater or to determine whether construction-debris related asbestos is present. The location of test pits and soil borings area shown on **Figure 4**, and have been located in order to investigate the areas of concern as noted in **Section 4.4**.

4.4.2.1 Test Pits

Approximately 17 test pits will be excavated to assess potential target areas identified during the geophysical survey and historical information review. Test pits will be excavated using a backhoe capable of excavating to depths approximating the water table (reported at depths up to approximately 10 feet). Soil samples will be collected for field screening using DEP's jar headspace screening method. The material removed from the test pits, side-walls of the test pits, and the bottom of test pits will be observed for visual and olfactory evidence of contamination, and for possible materials that appears to be ACM. The soil samples will be screened for total VOCs using a photo-ionization detector (PID). Samples exhibiting PID readings and/or visual and/or olfactory evidence of contamination will be collected for laboratory analysis. If potential contamination is not observed, a sample will be collected from immediately above the saturated zone or from fill materials. Upon completion, each test pit will be backfilled with the excavated soils in the general sequence the soils were removed. Test pit logs will be prepared detailing the subsurface conditions encountered. Each test pit will be recorded at the time of excavation with coordinates in NAD 83 State Plane, Massachusetts Mainland Zone, and shown on **Figure 4**. A summary of proposed analyses, matrices, methods, reporting limits, and number of samples/locations is shown in **Table 1** in **Section 1.3**.

4.4.2.2 Test Borings and Monitoring Wells

The drilling program will include the installation of eight (8) soil borings to assess soil and groundwater quality conditions in areas of concern identified during the geophysical survey and/or historical information review, and in areas of concern identified during the test pit program. Test borings/monitoring wells will be located on the site in both upgradient and downgradient positions. The borings will be completed as monitoring wells. Groundwater quality data will be used to assess impacts to groundwater due to historical and/or current site activities and will provide a baseline for future long term monitoring. The monitoring wells will also be used to gauge depth to water across the

site area.

Test borings will be advanced using conventional hollow-stem auger drilling methods. Soil samples will be collected continuously using a two foot long split spoon sampler. Each sample will be logged by Apex personnel and placed in a clean glass jar. Each sample will be screened in the field using DEP's jar headspace method. One soil sample from each boring will be selected for laboratory analyses as cited on **Table 1** in **Section 1.3**. Samples will be selected based on PID readings and visual and olfactory observations that indicate potential contamination. Should evidence of contamination not be observed, a sample will be selected from fill materials immediately above the groundwater table/smear zone.

Monitoring wells will be installed at each location that encounters groundwater. Monitoring wells will be constructed with two-inch diameter PVC materials. Well screens will be at least five to 10 feet long and will be set to span the water table observed during drilling. Well screen placement will consider tidal fluctuations. Newly installed monitoring wells will be surveyed to a MLLW datum. Previously installed monitoring wells that are located by Apex will be included in the survey and tied into MLLW datum by the survey.

Borings and monitoring well locations be located using NAD83 State Plane Coordinates Massachusetts Mainland Zone, at the time of installation with a portable GPS. The locations of the proposed borings are shown on **Figure 4**. A summary of proposed analyses, matrices, methods, reporting limits, and number of samples/locations is shown in **Table 1** in **Section 1.3**.

4.4.2.3 Groundwater Monitoring

One initial sampling will include the eight (8) newly installed monitoring wells. The resulting data will be used to establish base-line conditions.

Depending on the contaminants of concern that are indentified during the soil investigation portion of the sampling and characteristics of the fill material used within the CDF, the monitoring wells will be sampled and analyzed for PCBs (22 NOAA Congeners by Modified EPA Method 8270C), 13 Priority Pollutant Metals (EPA Method 6020A/7471), SVOCs (EPA Method 8270C), and Total Petroleum Hydrocarbons (EPA Method 8015). Dependent upon the results of screening of soil at test pits and monitoring wells, groundwater samples may also be analyzed for VOCs (via EPA Method 8260). A summary of proposed analyses, matrices, methods, reporting limits, and number of samples/locations is shown in **Table 1** in **Section 1.3**.

4.4.3 Sample Handling

Sampling equipment will be cleaned following standard decontamination procedures

prior to individual sample collection. Sediment samples will be logged and visually characterized prior to collection in laboratory-supplied pre-cleaned and pre-preserved jars. Samples will be stored at four (4) degrees Celsius in sample coolers on the vessel prior to shipment to the laboratory.

Samples for chemical analysis will be stored on ice from the time of sample collection until they are delivered to the laboratory. Samples will be collected and placed in the appropriate laboratory-provided sample container for each analytical method and sealed with the lid. The sealed container will then be labeled with indelible ink, with the sample location, depth interval and time of collection. The sample container will then be wrapped in protective shipping material (such as bubble wrap) and be placed in a cooler with ice. Ice will be placed in and around the samples to ensure uniform and quick chilling. Chemical ice shall not be used.

At the completion of daily sample collection events, all of the samples will be added to the Chain of Custody form with appropriate analytical testing methods noted. The Chain of Custody will be placed in a sealable watertight plastic bag, and affixed to the lid of the cooler. The cooler lid will be closed tightly, and taped shut with clear packing tape. Sample coolers will be shipped via courier or by overnight express service to an EPA certified laboratory for analysis. Standard quality control and quality assurance (QA/QC) samples (including field and matrix spike duplicates) will be collected as part of the sampling protocol.

4.4.4 Sampling Quality Control

QA/QC duplicate samples will be collected at the rate of up to one duplicate for every ten samples per sample matrix. Samples will be collected and labeled in such a manner as to make them easily associated with the primary samples.

Sediment samples to be used for duplicate samples will be homogenized prior to being split into the primary and duplicate samples. Primary and duplicate samples will be transported and stored in the same manner. All duplicate samples will be run by the laboratory as “blind” samples.

Up to one half of the duplicate samples will be analyzed utilizing a different analytical laboratory to provide analytical quality assurance for the project.

4.4.5 Sample Analysis

Samples will be sent to an offsite chemical analysis laboratory. Samples will be hand-delivered or couriered to the laboratory in sample coolers in order to maintain appropriate sample conditions. Samples requiring physical characterization will be sent to a qualified geotechnical laboratory.

4.4.5.1 Chemical Analysis

4.4.5.1.1 Soil

At a minimum one, soil sample(s) will be selected from each boring and each test pit for laboratory analyses.

For test pits, soil samples will be collected from the sidewalls of the excavation and/or from the excavator bucket so that a vertical profile of each test pit can be developed. The depth of each sample will be measured using a six-foot ruler or weighted tape measure and changes in soil type will be noted. Samples will be field screened for total VOCs using a PID following MADEP's jar headspace screening method. Soil samples will be selected based on depth and strata changes, fill type, color or grain size. Samples exhibiting PID readings and/or visual and/or olfactory evidence of contamination will be collected for laboratory analysis. If no visual or screening evidence of contamination is observed then soil samples will be collected considering depth, strata changes and the vertical distribution of prior samples so that samples from varying depths will be collected to support a risk characterization.

For soil borings, soil samples will be collected continuously using a two foot long split spoon sampler. Each sample will be logged by Apex personnel and placed in a clean glass. Each sample will be screened in the field using DEP's jar headspace method. The soil sample selection process will be consistent to the selection process employed for the test pits.

Selected soil samples will be submitted for the 13 Priority Pollutant Metals (EPA Method 6020A/7471), PCBs (22 NOAA Congeners by Modified EPA Method 8270C), total petroleum hydrocarbons (EPA Method 8015), and semi-volatile organic compounds (SVOCs by Method 8270C). A minimum of three soil samples will be submitted for extractable petroleum hydrocarbons (MAEPH) including the target compounds. If elevated headspace readings are detected then the soil sample will be submitted for volatile petroleum hydrocarbons (MAVPH) and volatile organic compounds (VOCs by EPA Method 8260). PCBs analyses will be performed using a soxhlet extraction method. If metals analyses indicate concentrations above the "20 times rule" TCLP analyses will be performed on the detected constituent exhibiting the elevated concentration. A summary of proposed analyses, matrices, methods, reporting limits, and number of samples/locations is shown in **Table 1** in **Section 1.3**.

4.4.5.1.2 Groundwater

Each monitoring well will be developed and allowed to reach equilibrium with the surrounding aquifer before sampling. Low-flow sampling will be used to minimize turbidity in each sample. Groundwater indicator parameters, including turbidity, pH,

conductivity and temperature will be monitored during monitoring well development and purging. Each groundwater sample will be analyzed for the 13 Priority Pollutant Metals (field filtered prior to preservation) (EPA Method 6020A/7471), PCBs (22 NOAA Congeners by Modified EPA Method 8270C), TPH (EPA Method 8015), SVOCs (EPA Method 8270C) and VOCs (EPA Method 8260). If elevated levels of petroleum contamination are detected in soil samples, then groundwater samples will be collected and submitted for EPH (Massachusetts Method MAEPH) and VPH (Massachusetts Method MAVPH) analyses.

Analytical parameters for the samples were selected based on guidelines established during discussions with USEPA. A summary of proposed analyses, matrices, methods, reporting limits, and number of samples/locations is shown in **Table 1** in **Section 1.3**.

Standard turnaround time for all analytical parameters is 14 business days. Samples collected will be analyzed by a laboratory for a standard analytical turnaround time. Additionally, all sediment samples may be frozen to increase the holding time for up to one year (with the exception of VOC parameters).

4.4.5.2 Laboratory Methods

Samples will be sent to a laboratory. Chemical analytical methods will be performed in accordance with USEPA protocol. Laboratory methods for the proposed analyses are shown above.

4.5 Ambient Air Monitoring

To ensure protection of public health, ambient air monitoring will be conducted prior to, during, and after the completion of construction of the South Terminal CDF. The purpose of the program is to quantify the amount and concentrations, if any, of PCB's which may volatize from sediments during the dredging or during filling operations associated with the South Terminal CDF. This data will be provided to the EPA for their use in tracking the cumulative exposure budgets of receptors within the harbor, and be used to initiate proper responses to mitigate or reduce potential PCB exposure risks. To achieve this goal monitoring locations will be established in the vicinity of the proposed CDF.

4.5.1 Monitoring Stations

One background air monitoring station will be erected at the site, as shown on **Figure 4**. Construction air monitoring stations will be erected in four locations surrounding the South Terminal CDF site (one on the northwest, southwest, and northeast sides of the facility, and one to be located to the southeast, on the Hurricane Barrier) in a

configuration which will account for anticipated seasonal prevailing wind directions. Previous studies and plans for the New Bedford Harbor Superfund site have identified the seasonal prevailing wind directions, which would affect the transportation of any volatized PCBs they are listed below:

- Summer – prevailing winds are from the South and Southwest, and would carry contaminants North or Northeast;

- Fall – Prevailing winds are from the Northwest, and South/Southwest;
- Winter – Prevailing winds are from the Northwest, with secondary peak winds from the Northeast and Southeast; and

- Spring – Prevailing winds are transitional, but trend from the Northwest and East.

The preliminary locations construction air monitoring locations are shown on **Figure 4.** Prior to installation, the installation site will be inspected, to ensure that no obstructions or impediments (i.e. buildings, trees etc) exist at that location which may adversely affect the validity of the data collected at that location by interrupting the wind flow direction. A summary of proposed analyses, matrices, methods, reporting limits, and number of samples/locations is shown in **Table 1** in **Section 1.3**.

4.5.2 Monitoring Station Sampling Frequency

Background sampling will be conducted at one location onsite and will consist of three 24-hour samples collected on days on three consecutive weeks. The background sampling location has not yet been determined, and will likely depend on the prevailing wind conditions at the time of sampling. The four construction air monitoring locations will be sampled at a rate of once per month beginning one month before the start of site development.

Previous reports from the Superfund site show that the major source of airborne PCB's in the New Bedford area to be the source points in the upper harbor. Consequently, the relatively low concentrations revealed in the sediments in previous investigations of the area of The South Terminal CDF suggest that volatilization releases from the sediments during construction of the CDF and dredging would not be significantly different from background levels. If air sampling confirms there is no or little change in ambient air PCB concentrations, a reduction in the sampling frequency may be proposed.

Samples will be run for 10 PCB Homologues (EPA Method 1668A).

5.0 Hydraulic Conductivity

In order to assess hydraulic conductivity at the facility for future modeling purposes, several analyses will be conducted. Slug tests (either rising-head or falling-head) will be performed in each monitoring well to evaluate hydraulic conductivity across the facility. In addition, up to two samples of the sediment that will be used as fill within the facility will be collected during sampling activities and up to four samples will be collected from the intertidal and sub-tidal areas that are anticipated to be filled. Sample locations will be documented using a portable GPS.

Samples of the intertidal and sub-tidal areas will be collected using the vibracore sampling vessel. The vibracore will be used to collect four (4)-inch diameter sediment cores that will be sealed immediately upon retrieval to minimize disturbance. If the vibracore is unsuccessful, a comparable method will be utilized to collect an undisturbed sample. If it is not possible to collect undisturbed samples, a sample will be collected with the least disturbance possible, and the sample will be reconstituted in the laboratory.

The sediment samples will be labeled (top and bottom, sample interval and date collected) and maintained in an upright position during transport to a materials testing laboratory where either constant head of falling head measures of hydraulic conductivity will be performed. Each sediment sample will also be analyzed for porosity and grain size to aid in the determination of hydraulic conductivity values.

Additionally, up to two sediment samples will be collected and treated with additives anticipated to be utilized during construction to stabilize the sediment prior to placement within the CDF. These additives potentially include: granular material, lime, and cement. After mixture and curing (if necessary) is complete, a falling head and/or constant head hydraulic conductivity test will be conducted on the stabilized sediment. Either ASTM 2434 or ASTM D 5084 will be performed to determine hydraulic conductivity of sediment samples.

6.0 Groundwater Modeling

In order to simulate the potential for contaminant flux out of the South Terminal CDF, groundwater modeling of the proposed CDF will be performed using Modflow software. The basis of the model will be similar models used by USEPA when determining potential contaminant flux out of similar CDFs either conceived or constructed by USEPA for the New Bedford Harbor Superfund remedy. Input elements of the model will include existing information regarding soil beneath the facility, hydraulic conductivity within the existing substrate, hydraulic conductivity of sediments to be placed within the

CDF, as well as the contaminant levels detected in soil and groundwater at the site and within sediments planned to be placed within the CDF. The focus of the modeling will be to estimate contaminant flux from impacted sediment placed within the CDF into New Bedford Harbor. Modeling results will be summarized. Where applicable, modeling assumptions will be identified and explained.

FIGURE 1

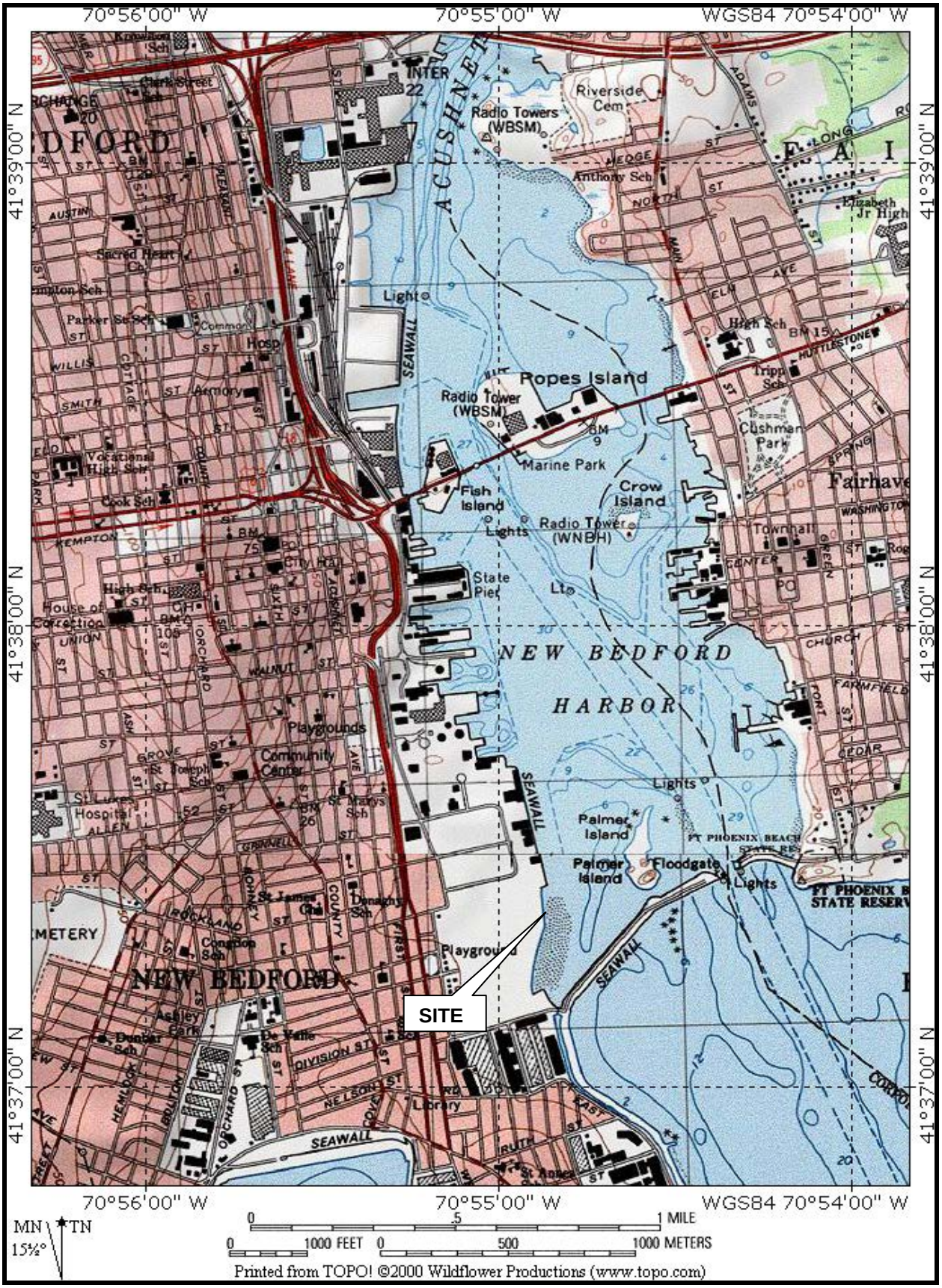

Figure 1: Site Location Map

South Terminal CDF Proposed Location

City of New Bedford, New Bedford, Massachusetts

FIGURE 2

Apex Companies, LLC.

1 WAMSUTTA STREET
SUITE 8
NEW BEDFORD, MA 02740
(508) 996-9828

184 HIGH STREET
SUITE 502
BOSTON MA 02110
(617) 728-0070

REVISIONS

NO.	DATE	DESCRIPTION

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PREPARED FOR:

THE NEW BEDFORD HARBOR DEVELOPMENT COMMISSION
NEW BEDFORD, MASSACHUSETTS

DRAWING TITLE:

SOUTH TERMINAL MARINE INFRASTRUCTURE PARK PROPOSED BULKHEAD

Scale: 1"=150'

0 75 150 300 450 FEET

Date	3/24/10
Proj. Mgr.	JAB
Design	CWM
Check	CHM
Drawn	GCD
Job. No.	6690
Last Rev.	8/23/10

Drawing No.

P-4

P:\Jobs\6690 NBH_ Phase IV\PLANS\CAPEWIND\SOUTH_TERMINAL_EXPANSION_7-23-10_WORKING.dwg

FIGURE 3

Apex Companies, LLC.

184 HIGH STREET
SUITE 502
BOSTON MA 02110
(617) 728-0070

REVISIONS

#	DATE	DESCRIPTION
1	10/28/10	BORING PROG. & NUM.
2	11/22/10	BORINGS PLACED BY OUTFALL LOC.

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NOTES:

1. THE PROPOSED BORING LOCATIONS SHOWN HEREON ARE APPROXIMATE. ACTUAL LOCATIONS OF SAMPLES WILL VARY DURING THE SITE INVESTIGATION.
2. PROPERTY LINES AND OWNERSHIP SHOWN HEREON ARE APPROXIMATE AND ARE BASED ON DATA PROVIDED BY THE ASSESSORS OFFICE OF THE CITY OF NEW BEDFORD.
3. BACKGROUND IMAGES SHOWN HEREON ARE PROVIDED COURTESY OF MASSGIS.
4. BORING LOCATIONS FROM PREVIOUS ENVIRONMENTAL INVESTIGATIONS ARE APPROXIMATE AND WERE SCALED INTO LOCATION FROM RECORD PLANS.
5. EXISTING AND POSSIBLE EXISTING STORM DRAIN AND COMBINED SEWER OVERFLOW (CSO) LOCATIONS AND SIZES SHOWN ARE FROM RECORD PLANS AND HAVE NOT BEEN FIELD VERIFIED.

HORIZONTAL DELINEATION (PEAT CORER) – PCBs VIA NOAA CONGENERS AT 1' INTERVALS– SURFACE SAMPLES ALSO RUN FOR 13 PRIORITY POLLUTANT METALS, SVOCS, AND TPH – PLUS WATER COLUMN TESTING

HORIZONTAL DELINEATION (PEAT CORER) – PCBs VIA NOAA CONGENERS AT 1' INTERVALS– SURFACE SAMPLES ALSO RUN FOR 13 PRIORITY POLLUTANT METALS, SVOCS, AND TPH

VERTICAL DELINEATION (VIBRACORE)–SAMPLES AT 1' INTERVALS FOR PCBs VIA NOAA CONGENERS, COPPER, CHROMIUM, AND ZINC

HORIZONTAL DELINEATION (PEAT CORER) – PCBs VIA NOAA CONGENERS AT 1' INTERVALS

PREPARED FOR:

THE NEW BEDFORD HARBOR DEVELOPMENT COMMISSION
NEW BEDFORD, MASSACHUSETTS

DRAWING TITLE:

SOUTH TERMINAL MARINE INFRASTRUCTURE PARK INTER–TIDAL AND SUB–TIDAL SAMPLING PLAN

Scale: 1"=100'

0 50 100 200 300 FEET

Date	10/28/10
Proj. Mgr.	
Design	CWM
Check	JAB
Drawn	GCD
Job. No.	6615
Last Rev.	11/22/10

Drawing No.

FIG. 3

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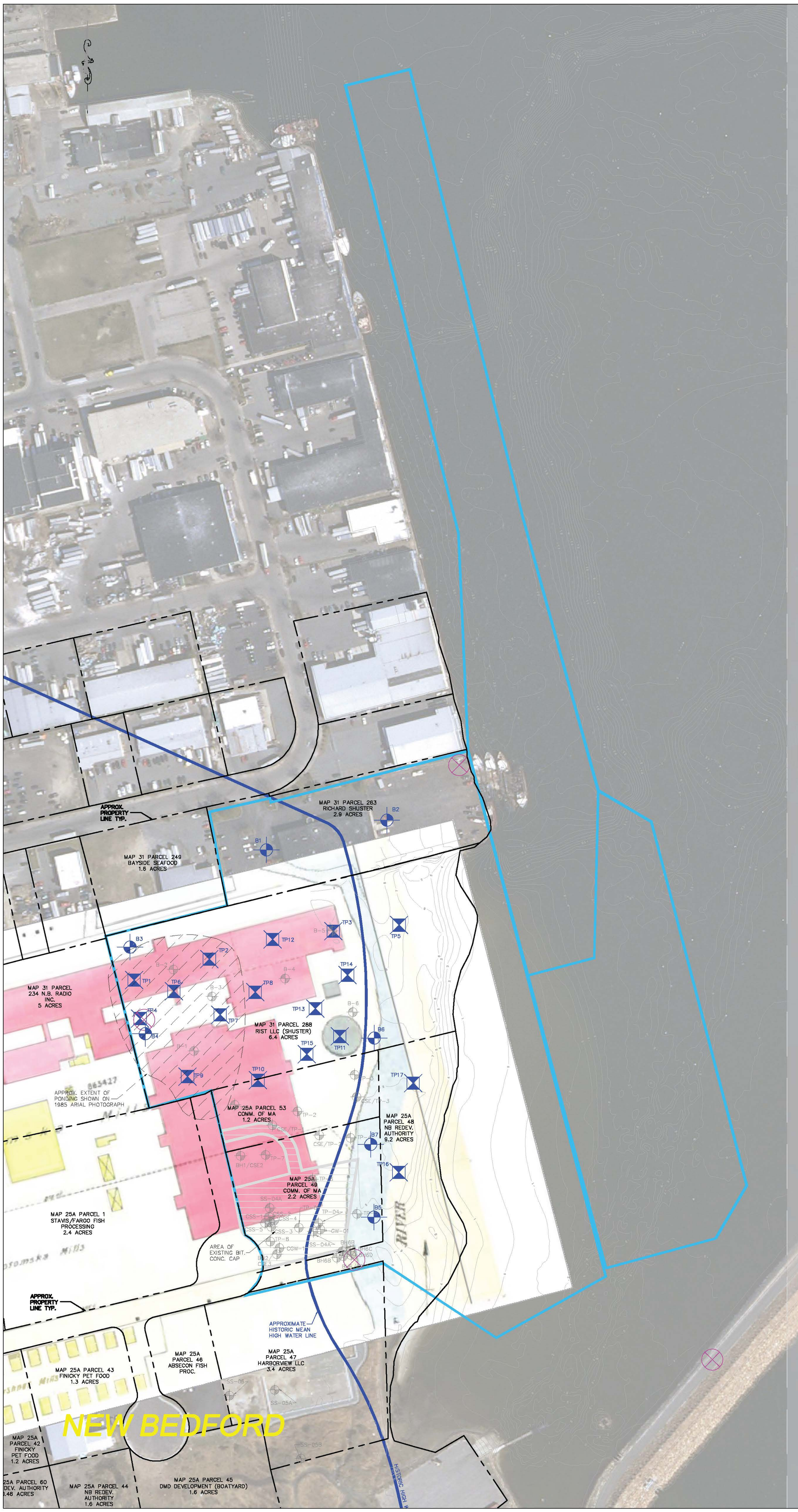
FIGURE 4



Apex Companies, LLC.

184 HIGH STREET
SUITE 502
BOSTON MA 02110
(617) 728-0070

REVISIONS

#	DATE	DESCRIPTION
1	10/28/10	Boring locations and numbers
2	11/22/10	Realingn based on prev. investigation

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NOTES:

1. THE PROPOSED BORING LOCATIONS SHOWN HEREON ARE APPROXIMATE. ACTUAL LOCATIONS OF SAMPLES WILL VARY DURING THE SITE INVESTIGATION.
2. PROPERTY LINES AND OWNERSHIP SHOWN HEREON ARE APPROXIMATE AND ARE BASED ON DATA PROVIDED BY THE ASSESSORS OFFICE OF THE CITY OF NEW BEDFORD.
3. HISTORIC OVERLAY SHOWING THE FORMER MILL STRUCTURES OF POTOMSKA MILLS IS FROM "ATLAS OF THE CITY OF NEW BEDFORD 1911", GEORECTIFIED BY APEX COMPANIESS LLC. STRUCTURE LOCATIONS SHOULD BE CONSIDERED APPROXIMATE.
4. BACKGROUND IMAGES SHOWN HEREON ARE PROVIDED COURTESY OF MASSGIS.
5. BORING LOCATIONS FROM PREVIOUS ENVIRONMENTAL INVESTIGATIONS ARE APPROXIMATE AND WERE SCALED INTO LOCATION FROM RECORD PLANS.

TEST PITS – LOCATION TO BE REFINED BY GEOPHYSICAL SURVEY RESULTS.

TEST BORING/MONITORING WELL FOR ENVIRONMENTAL INVESTIGATION

AIR MONITORING LOCATION

SS-06 PREVIOUS ENVIRONMENTAL INVESTIGATION BORING LOCATION

PREPARED FOR:

THE NEW BEDFORD HARBOR DEVELOPMENT COMMISSION
NEW BEDFORD, MASSACHUSETTS

DRAWING TITLE:

SOUTH TERMINAL MARINE INFRASTRUCTURE PARK UPLAND SAMPLING PLAN

Scale: 1"=100'

0 50 100 200 300 FEET

Date	10/28/10
Proj. Mgr.	
Design	CWM
Check	JAB
Drawn	GCD
Job. No.	6690
Last Rev.	11/22/10

Drawing No.

FIG. 4

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APPENDIX A

Table 1:
Analytical Data: Linberg Marine
Phase III Harbor Maintenance Dredge Program
New Bedford, Massachusetts

		Extractable Petroleum Hydrocarbons (μg/kg)																				
Sample Name	Collection Date	C9-C18 Aliphatics	C19-C36 Aliphatics	C11-C22 Aromatics	Unadjusted C11-C22 Aroma	Naphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Benzo(g,h,i)perylene
307A 0-1	10/23/2006	300000	1300000	310000	320000	830	830	830	830	830	830	830	1000	2000	990	890	1300	830	920	1700	1700	830
308 0-1	10/23/2006	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

		Metals (mg/kg)							
Sample Name	Collection Date	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury
307A 0-1	10/23/2006	5.9	32	4.4	260	190	1.4	1.8	0.94
308 0-1	10/23/2006	NS	NS	NS	NS	NS	NS	NS	NS

		PCB Congeners (μg/kg)																							
Sample Name	Collection Date	Cl2-BZ#5/#8	Cl3-BZ#18	Cl3-BZ#28/#31	Cl4-BZ#44	Cl4-BZ#52	Cl4-BZ#43/#49	Cl4-BZ#66	Cl5-BZ#101/#84	Cl5-BZ#87	Cl7-BZ#184	Cl5-BZ#105	Cl5-BZ#118	Cl7-BZ#183	Cl6-BZ#167/#128	Cl6-BZ#138/#163	Cl6-BZ#153	Cl7-BZ#170/#190	Cl7-BZ#180	Cl7-BZ#182/#187	Cl8-BZ#195	Cl9-BZ#206	Cl10-BZ#209	Summation of Congeners (mg/kg) [NOAA 18]	Reactive Sulfide (mg/kg)
307A 0-1	10/23/2006	87	300	1500	370	570	620	740	920	270	0.31	290	760	29	130	540	460	54	100	66	9.2	19	3.8	18.0	150
308 0-1	10/23/2006	14	33	190	39	84	94	84	120	32	0.24	36	110	4.1	20	80	80	8.3	12	9.6	1.1	1.6	1.1	2.4	NS

Notes:
U = Concentration is below the laboratory's method detection limit.
NS = Not sampled.

Table 2:
Analytical Data: Olde North Wharf Fisheries
Phase III Harbor Maintenance Dredge Program
New Bedford, Massachusetts

		Extractable Petroleum Hydrocarbons (μg/kg)																				
Sample Name	Collection Date	C9-C18 Aliphatics	C19-C36 Aliphatics	C11-C22 Aromatics	Unadjusted C11-C22 Aroma	Naphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Benzo(g,h,i)perylene
309 0-1	10/24/2006	48000	300000	100000	110000	650	650	650	650	650	650	650	860	1800	650	650	650	650	650	1300	1300	650
310 0-1	10/24/2006	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
311 0-1	10/24/2006	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

		Metals (mg/kg)							
Sample Name	Collection Date	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury
309 0-1	10/24/2006	6	160	1	56	360	1	1	0
310 0-1	10/24/2006	NS	NS	NS	NS	NS	NS	NS	NS
311 0-1	10/24/2006	NS	NS	NS	NS	NS	NS	NS	NS

		PCB Congeners (μg/kg)																								
Sample Name	Collection Date	Cl2-BZ#5/#8	Cl3-BZ#18	Cl3-BZ#28/#31	Cl4-BZ#44	Cl4-BZ#52	Cl4-BZ#43/#49	Cl4-BZ#66	Cl5-BZ#101/#84	Cl5-BZ#87	Cl7-BZ#184	Cl5-BZ#105	Cl5-BZ#118	Cl7-BZ#183	Cl6-BZ#167/#128	Cl6-BZ#138/#163	Cl6-BZ#153	Cl7-BZ#170/#190	Cl7-BZ#180	Cl7-BZ#182/#187	Cl8-BZ#195	Cl9-BZ#206	Cl10-BZ#209	Summation of Congeners (mg/kg) [NOAA 18]	Reactive Sulfide (mg/kg)
309 0-1	10/24/2006	26	57	330	73	160	180	140	240	61	0	65	200	7	36	150	140	15	24	16	2	3	2	4.4	190
310 0-1	10/24/2006	85	260	1100	280	420	420	460	700	220	0	210	530	19	98	420	350	42	65	46	6	5	3	13.2	NS
311 0-1	10/24/2006	29	65	390	95	170	200	190	300	78	0	81	240	9	43	180	160	20	32	21	3	3	1	5.3	NS

Notes:
U = Concentration is below the laboratory's method detection limit.
NS = Not sampled.

Table 3:
Analytical Data: Union Wharf
Phase III Harbor Maintenance Dredge Program
New Bedford, Massachusetts

		Extractable Petroleum Hydrocarbons (µg/kg)																				
Sample Name	Collection Date	C9-C18 Aliphatics	C19-C36 Aliphatics	C11-C22 Aromatics	Unadjusted C11-C22 Aroma	Naphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Benzo(g,h,i)perylene
321 0-1	10/25/2006	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
325 0-1	10/25/2006	880000	2200000	1000000	1100000	1000	1000	1000	1000	1000	2400	1200	8500	10000	5700	5200	5600	2400	4100	3700	3700	2800

		Metals (mg/kg)							
Sample Name	Collection Date	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury
321 0-1	10/25/2006	NS	NS	NS	NS	NS	NS	NS	NS
325 0-1	10/25/2006	20	330	5.1	200	3000	3.0	1.2	7.3

		PCB Congeners (µg/kg)																							
Sample Name	Collection Date	Cl2-BZ#5/#8	Cl3-BZ#18	Cl3-BZ#28/#31	Cl4-BZ#44	Cl4-BZ#52	Cl4-BZ#43/#49	Cl4-BZ#66	Cl5-BZ#101/#84	Cl5-BZ#87	Cl7-BZ#184	Cl5-BZ#105	Cl5-BZ#118	Cl7-BZ#183	Cl6-BZ#167/#128	Cl6-BZ#138/#163	Cl6-BZ#153	Cl7-BZ#170/#190	Cl7-BZ#180	Cl7-BZ#182/#187	Cl8-BZ#195	Cl9-BZ#206	Cl10-BZ#209	Summation of Congeners (mg/kg) [NOAA 18]	Reactive Sulfide (mg/kg)
321 0-1	10/25/2006	24	68	270	82	120	110	140	170	45	0.28	46	97	43	22	180	180	77	170	96	18	8.8	0.36	4.6	NS
325 0-1	10/25/2006	73	150	720	220	370	320	350	940	280	0.37	250	620	120	150	810	870	210	440	300	42	33	9.4	17.0	79

Notes:
U = Concentration is below the laboratory's method detection limit.
NS = Not sampled.

Table 4:
Analytical Data: Steamship Authority Pre-Dredge Locations
Phase III Harbor Maintenance Dredge Program
New Bedford, Massachusetts

		PCB Congeners (μg/kg)																					
Sample Name	Collection Date	Cl2-BZ#5/#8	Cl3-BZ#18	Cl3-BZ#28/#31	Cl4-BZ#44	Cl4-BZ#52	Cl4-BZ#43/#49	Cl4-BZ#66	Cl5-BZ#101/#84	Cl5-BZ#87	Cl7-BZ#184	Cl5-BZ#105	Cl5-BZ#118	Cl7-BZ#183	Cl6-BZ#167/#128	Cl6-BZ#138/#163	Cl6-BZ#153	Cl7-BZ#170/#190	Cl7-BZ#180	Cl7-BZ#182/#187	Cl8-BZ#195	Cl9-BZ#206	Cl10-BZ#209
329 0-1	10/23/2006	48	87	540	120	260	290	220	370	90	0.7 U	97	310	18	57	240	260	37	69	46	7.3	7.3	1.7
330 0-1	10/23/2006	140	260	1300	340	600	620	600	930	260	2.4 U	250	680	56	140	580	570	110	210	140	26.0	22.0	6.3
331 0-1	10/25/2006	2	3	14	4	8	9	6	12	2	0.33 U	3	9	2	3	8	10	2	4	3	0.33 U	0.33 U	0.33 U
332A 0-1	10/23/2006	2	3	14	4	7	8	5	11	3	0.19 U	3	8	1	2	7	8	1	3	2	0.7	0.19 U	0.3

Summation of Congeners (mg/kg) [NOAA 18]
7.2
18.0
0.234
0.210

Notes:
U = Concentration is below the laboratory's method detection limit.
NS = Not sampled.

Table 5:

Additional Analytical Data: Additional Pre-Dredge Locations
Phase III Harbor Maintenance Dredge Program, USEPA Data, Intertidal Sampling Results
New Bedford, Massachusetts

		Extractable Petroleum Hydrocarbons (µg/kg)																				
Sample Name	Collection Date	C9-C18 Aliphatics	C19-C36 Aliphatics	C11-C22 Aromatics	Unadjusted C11-C22 Aromatics	Naphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Benzo(g,h,i)perylene
VC-07C-08	11/17/2008	25000	213000	152000	185000	803 U	803 U	803 U	803 U	803 U	3790	803	6330	5250	2920	3180	2740	2470	2520	2040	803	1880

		Metals (mg/kg)							
Sample Name	Collection Date	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury
VC-05-08	11/13/2008	4.58	20	1.59	82.7	64.4	0.729	0.793	0.283
VC-07C-08	11/17/2008	6.6	87.2	8.01	86.5	547	0.744	11.9	0.803
VC-16-08	11/21/2008	8.22	44.4	0.948	57.7	107	1.2	0.524	0.641

		PCB Congeners (µg/kg)																					
Sample Name	Collection Date	Cl2-BZ#5/#8	Cl3-BZ#18	Cl3-BZ#28/#31	Cl4-BZ#44	Cl4-BZ#52	Cl4-BZ#43/#49	Cl4-BZ#66	Cl5-BZ#101/#84	Cl5-BZ#87	Cl7-BZ#184	Cl5-BZ#105	Cl5-BZ#118	Cl7-BZ#183	Cl6-BZ#167/#128	Cl6-BZ#138/#163	Cl6-BZ#153	Cl7-BZ#170/#190	Cl7-BZ#180	Cl7-BZ#182/#187	Cl8-BZ#195	Cl9-BZ#206	Cl10-BZ#209
VC-05-08	11/13/2008	39.7	166	529	156	296	209	184	359	127	1.13 U	127	386	10.8	72.5	320	224	29.9	38.3	23.8	2.47	3.49	1.35
VC-07C-08	11/17/2008	576	1490	2150	656	1240	620	285	504	174	1.03 U	143	390	23.2	97.3	400	309	57	90.9	66.9	9.52	16.5	2.77
VC-16-08 (0-1.5')	11/21/2008	17.2	95.9	153	145	340	132	96.9	207	207	1.22 U	163	478	13.8	108	464	300	41.8	50.1	27.2	1.22 U	6.62	3.85
H1	8/6/2010	1.80	7.41	20.4	9.54	16.6	11.4	4.13	16.1	2.08	0.958 U	4.38	13.6	0.958 U	3.14	12.2	10.4	1.19	1.16	0.958 U	0.958 U	0.958 U	0.958 U
D2	8/6/2010	0.870 U	1.09	3.01	1.45	4.10	2.73	0.870 U	3.49	0.870 U	0.870 U	0.870 U	2.83	0.870 U	0.870 U	3.20	2.57	0.870 U	0.870 U	0.870 U	0.870 U	0.870 U	0.870 U
F1	8/10/2010	0.912 U	2.38	7.14	2.89	7.57	5.12	1.40	7.25	0.912 U	0.912 U	2.00	6.59	0.912 U	1.31	5.34	4.72	1.25	0.912 U	0.912 U	0.912 U	0.912 U	0.912 U
B1	8/10/2010	0.856 U	2.64	7.63	2.44	8.52	5.5	1.87	7.77	0.856 U	0.856 U	1.8	6.7	0.856 U	1.2	6.07	6.37	0.933	0.968	0.856 U	0.856 U	0.856 U	0.856 U

Summation of Congeners (mg/kg) [NOAA 18]
7.7
22.1
7.0
0.32
0.07
0.14
0.15

Sample Name	Collection Date	Total PCBs [Method Unknown] (mg/kg)
S-203316	Pre-ROD	16
S-ae538	Pre-ROD	1
S-ae539	Pre-ROD	5
S-ae540	Pre-ROD	4
S-ae542	Pre-ROD	3
S-403	10/6/1999	2
S-405	10/6/1999	0.2
S-406	10/7/1999	9.2
S-af541	Pre-ROD	1
S-ae531	Pre-ROD	10
S-ae532	Pre-ROD	6
S-ae517	Pre-ROD	4
S-ae525	Pre-ROD	2
S-ae532	Pre-ROD	6

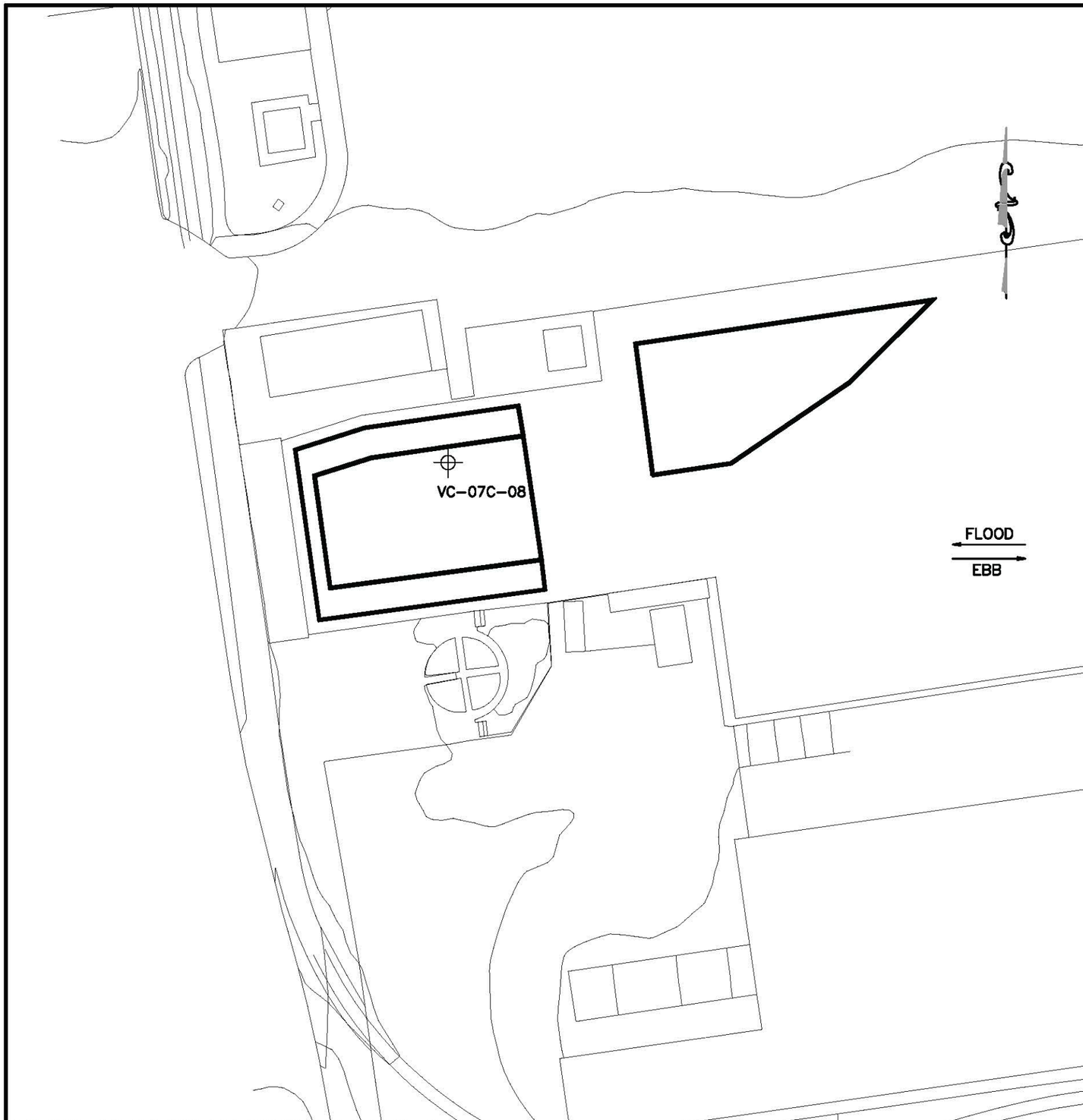
Notes:
U = Concentration is below the laboratory's method detection limit.
NS = Not sampled.

NOTES

1. COORDINATES SHOWN ARE IN THE STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND ZONE 2001, REFERENCED TO THE 1983 NORTH AMERICAN DATUM.

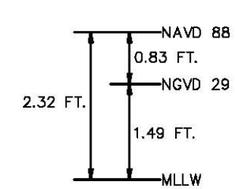
2. BASE PLAN FOR THIS FIGURE OBTAINED FROM U.S. ARMY CORPS OF ENGINEERS. EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

3. HORIZONTAL AND VERTICAL CONTROL HAVE BEEN PROVIDED BY THE OWNER AND HAVE NOT BEEN INDEPENDENTLY VERIFIED. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF CONTROL DATA.



VC-07-08 PRE DREDGE SAMPLE LOCATION

GRAPHIC DEPICTION OF DATUM SEPARATIONS FOR NEW BEDFORD HARBOR



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REVISIONS

NO.	DATE	DESCRIPTION
1.	[illegible]	PRELIM. DREDGE LAYOUT
2.	[illegible]	[illegible]
3.	[illegible]	RE-SED
4.	[illegible]	POST-DREDGE SAMPLES

THESE DRAWINGS PREPARED BY APEX FOR THIS PROJECT ARE INSTRUMENTS OF APEX'S SERVICE FOR USE SOLELY WITH RESPECT TO THIS PROJECT, AND APEX SHALL BE DEEMED THE AUTHOR OF THE DRAWING AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS WITH RESPECT THERETO, INCLUDING COPYRIGHT. THE DOCUMENTS SHALL NOT BE USED ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT OR FOR COMPLETION OF THIS PROJECT BY OTHERS, EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO APEX.

PROJECT TITLE:

NEW BEDFORD HARBOR NAVIGATIONAL DREDGE - PHASE III, PART A & B

PREPARED FOR:

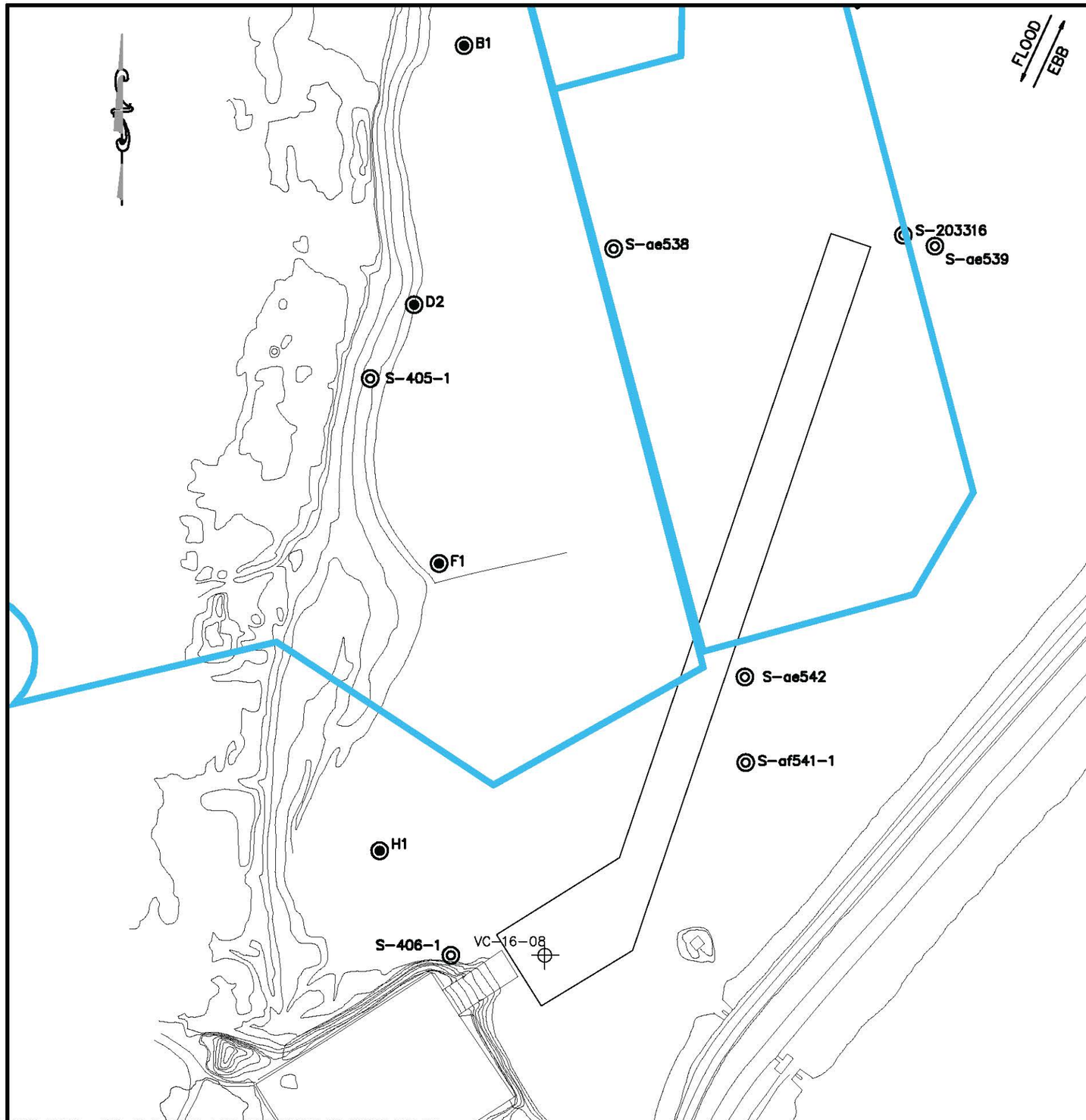
THE NEW BEDFORD HARBOR DEVELOPMENT COMMISSION AND THE TOWN OF FAIRHAVEN, MASSACHUSETTS

DRAWING TITLE:

TOMMESSON PARK DREDGE AREAS- PRE AND POST DREDGE SAMPLING LOCATIONS NOT FOR CONSTRUCTION

Scale: 0 10 20 40 60 FEET

Date 9/5/08	Drawing No.
Proj. Mgr. JAB	
Design GCD	
Check CM	V-1
Drawn GCD	
Job. No. 6615	
Last Rev. 1/22/10	



NOTES

1. COORDINATES SHOWN ARE IN THE STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND ZONE 2001, REFERENCED TO THE 1983 NORTH AMERICAN DATUM.

2. BASE PLAN FOR THIS FIGURE OBTAINED FROM U.S. ARMY CORPS OF ENGINEERS. EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

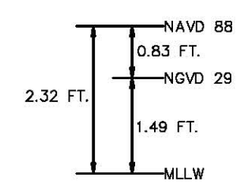
3. HORIZONTAL AND VERTICAL CONTROL HAVE BEEN PROVIDED BY THE OWNER AND HAVE NOT BEEN INDEPENDENTLY VERIFIED. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF CONTROL DATA.

VC-07-08 — PRE DREDGE SAMPLE LOCATION

B1 — APEX SAMPLES 8-6-2010, 8-10-2010

S-ae-538 — USACE SAMPLES

GRAPHIC DEPICTION OF DATUM SEPARATIONS FOR NEW BEDFORD HARBOR



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NO.	DATE	DESCRIPTION
1.	08/06/08	PRELIM. DREDGE LAYOUT
2.	11/14/08	BID SET
3.	1/16/09	RE-BID
4.	1/22/10	POST-DREDGE SAMPLES

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PROJECT TITLE:

NEW BEDFORD HARBOR NAVIGATIONAL DREDGE - PHASE III, PART A & B

PREPARED FOR:

THE NEW BEDFORD HARBOR DEVELOPMENT COMMISSION AND THE TOWN OF FAIRHAVEN, MASSACHUSETTS

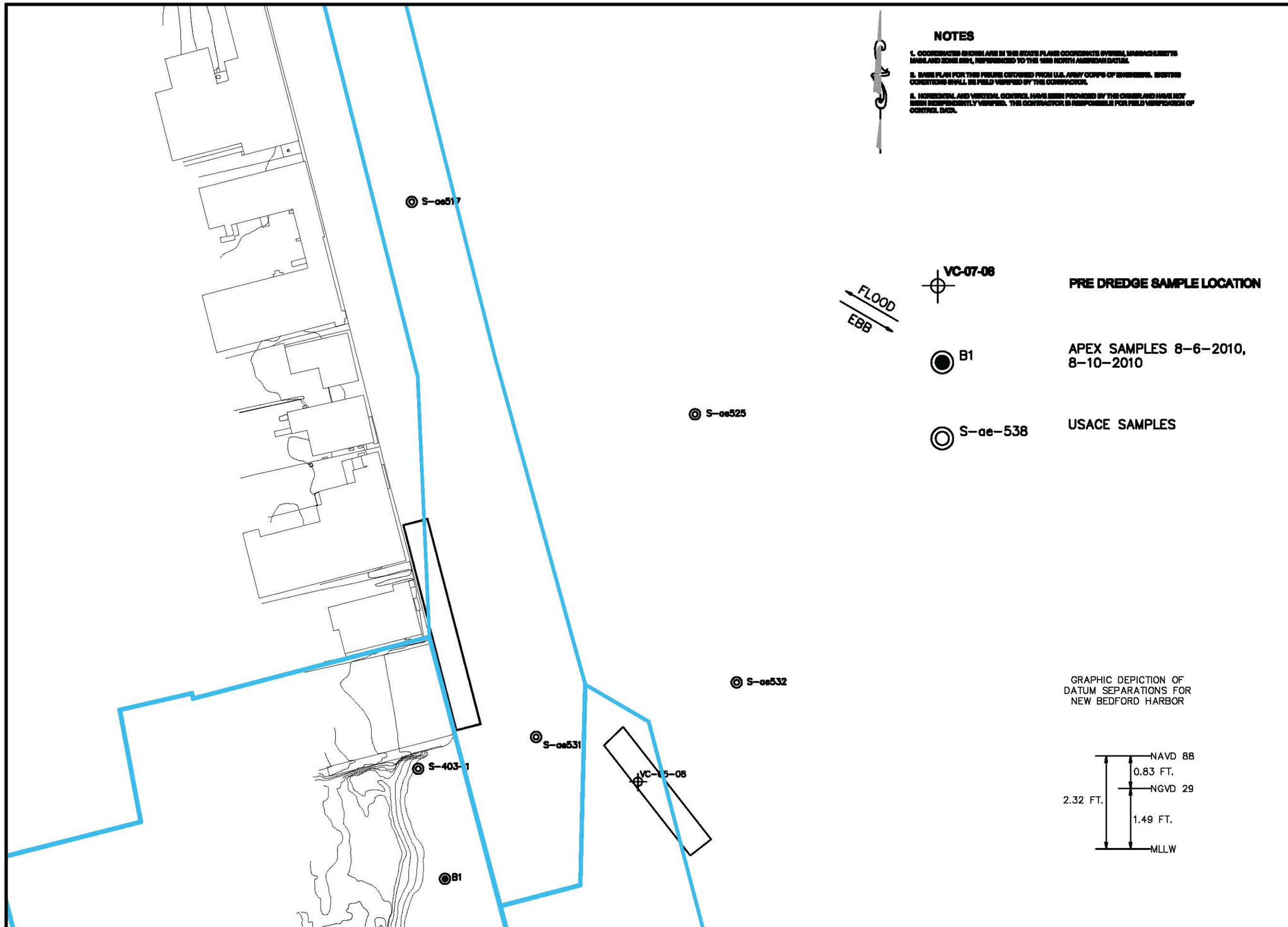
DRAWING TITLE:

GIFFORD STREET BOAT RAMP DREDGE AREA- PRE AND POST DREDGE SAMPLING LOCATIONS

NOT FOR CONSTRUCTION

Scale: 0 30 60 120 150 FEET

Date 9/5/08	Drawing No.
Proj. Mgr. JAB	
Design GCD	
Check CM	V-2
Drawn GCD	
Job. No. 6615	
Last Rev. 1/22/10	



NOTES

1. COORDINATES SHOWN ARE IN THE STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND ZONE 2001, REFERENCED TO THE 1983 NORTH AMERICAN DATUM.

2. BASE PLAN FOR THIS FIGURE OBTAINED FROM U.S. ARMY CORPS OF ENGINEERS. EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

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VC-07-08 — PRE DREDGE SAMPLE LOCATION

B1 — APEX SAMPLES 8-6-2010, 8-10-2010

S-ae-538 — USACE SAMPLES

GRAPHIC DEPICTION OF DATUM SEPARATIONS FOR NEW BEDFORD HARBOR

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NO.	DATE	DESCRIPTION
1.	[illegible]	PRELIM. DREDGE LAYOUT
2.	11/14/08	BID SET
3.	1/16/09	RE-BID
4.	1/22/10	POST-DREDGE SAMPLES

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PROJECT TITLE:

NEW BEDFORD HARBOR NAVIGATIONAL DREDGE - PHASE III, PART A & B

PREPARED FOR:

THE NEW BEDFORD HARBOR DEVELOPMENT COMMISSION AND THE TOWN OF FAIRHAVEN, MASSACHUSETTS

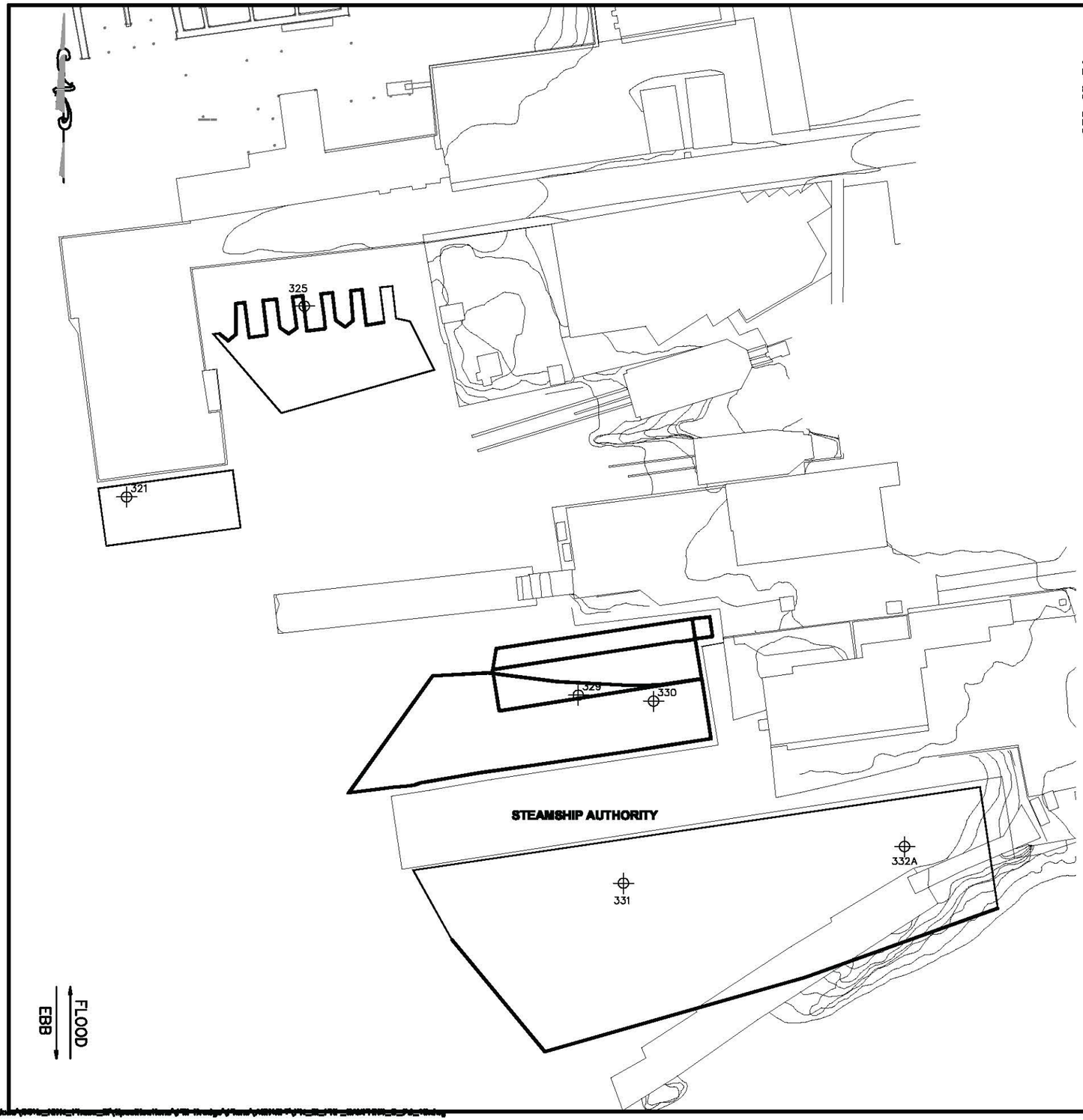
DRAWING TITLE:

SOUTH TERMINAL DREDGE AREAS- PRE AND POST DREDGE SAMPLING LOCATIONS

NOT FOR CONSTRUCTION

Scale: 0 40 80 160 320 FEET

Date 9/5/08	Drawing No.
Proj. Mgr. JAB	
Design GCD	
Check CM	V-3
Drawn GCD	
Job. No. 6615	
Last Rev. 1/22/10	



NOTES

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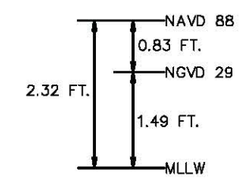
VC-07-08 PRE DREDGE SAMPLE LOCATION

GRAPHIC DEPICTION OF DATUM SEPARATIONS FOR NEW BEDFORD HARBOR



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NO.	DATE	DESCRIPTION
1.	[illegible]	PRELIM. DREDGE LAYOUT
2.	11/14/08	BID SET
3.	[illegible]	RE-BID
4.	[illegible]	POST-DREDGE SAMPLES

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PROJECT TITLE:

NEW BEDFORD HARBOR NAVIGATIONAL DREDGE - PHASE III, PART A & B

PREPARED FOR:

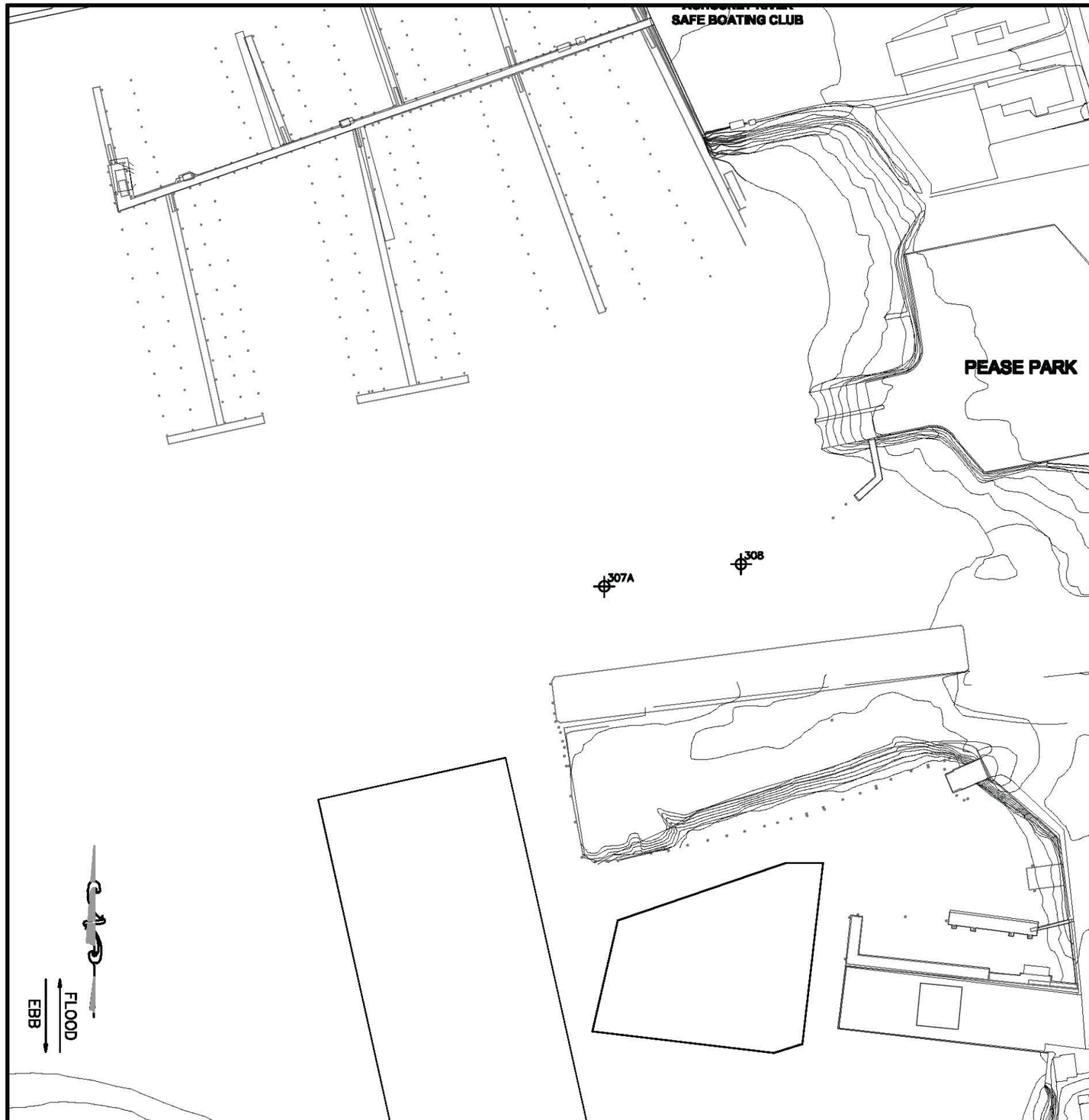
THE NEW BEDFORD HARBOR DEVELOPMENT COMMISSION AND THE TOWN OF FAIRHAVEN, MASSACHUSETTS

DRAWING TITLE:

WASHIN ALEXANDER SOUTH AND UNION WHARF DREDGE AREAS- VIBRACORE AND BORING LOCATION SHEET NOT FOR CONSTRUCTION

Scale: 0 20 40 80 100 FEET

Date 9/5/08	Drawing No.
Proj. Mgr. JAB	
Design GCD	
Check CM	V-4
Drawn GCD	
Job. No. 6615	
Last Rev. 1/22/10	



NOTES

1. COORDINATES SHOWN ARE IN THE STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND ZONE 2001, REFERENCED TO THE 1983 NORTH AMERICAN DATUM.

2. HYDROGRAPHIC SURVEY IS A COMPILATION OF SURVEYS PREFORMED BETWEEN 9-11-08 AND 11-8-08.

3. HYDROGRAPHIC SURVEY DATUM IS REFERENCED TO MEAN LOWER LOW WATER (MLLW) ON THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SERVICE TIDAL BENCHMARK BM7684 J 1077 - SURVEY DISK SET FLUSH IN THE SURFACE OF A CONCRETE SIDEWALK ON THE SOUTH SIDE OF U.S.HIGHWAY 6 ON THE NORTH SIDE OF THE MOBIL SERVICE STATION, 4 FEET (1 M) WEST OF A FIRE HYDRANT AND 1 FOOT (0.3 M) SOUTH OF U.S. HIGHWAY 6. DATUM SEPARATIONS WERE COMPUTED BY COLER AND COLANTONIO, INC. FEBRUARY 2002 AS MLLW - 1.82 FT = NGVD29 0.0 FT. TO OBTAIN VALUES IN NGVD29, SUBTRACT 1.82 FEET FROM THE INDICATED VALUE AT ANY POINT. HORIZONTAL CONTROL CAN BE OBTAINED FROM THE ENGINEER.

4. BASE PLAN FOR THIS FIGURE OBTAINED FROM U.S. ARMY CORPS OF ENGINEERS. EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

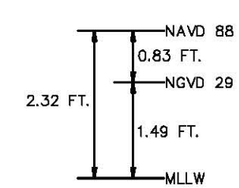
5. HORIZONTAL AND VERTICAL CONTROL HAVE BEEN PROVIDED BY THE OWNER AND HAVE NOT BEEN INDEPENDENTLY VERIFIED. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF CONTROL DATA.

6. THE INFORMATION DEPICTED ON THIS DRAWING REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED ABOVE AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS AT THE TIME OF THE SURVEYS AND AT THE SOUNDING POINTS NOTED ON THE DRAWING.

912 VIBRACORE LOCATION

912 BORING LOCATION

GRAPHIC DEPICTION OF DATUM SEPARATIONS FOR NEW BEDFORD HARBOR



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NO.	DATE	DESCRIPTION
1.	[illegible]	[illegible]
2.	[illegible]	[illegible]
3.	[illegible]	[illegible]

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PROJECT TITLE:

NEW BEDFORD HARBOR NAVIGATIONAL DREDGE - PHASE III, PART A & B

PREPARED FOR:

THE NEW BEDFORD HARBOR DEVELOPMENT COMMISSION AND THE TOWN OF FAIRHAVEN, MASSACHUSETTS

DRAWING TITLE:

LEGEND DREDGE AREAS- VIBRACORE AND BORING LOCATION SHEET

NOT FOR CONSTRUCTION

Scale: 0 20 40 80 100 FEET

Date 9/5/08	Drawing No.
Proj. Mgr. JAB	
Design GCD	
Check CM	V-5
Drawn GCD	
Job. No. 6615	
Last Rev. 10/30/08	

NOTES

1. COORDINATES SHOWN ARE IN THE STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND ZONE 2001, REFERENCED TO THE 1983 NORTH AMERICAN DATUM.

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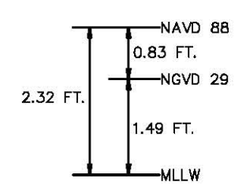
VC-07-08

PRE DREDGE SAMPLE LOCATION

GRAPHIC DEPICTION OF
DATUM SEPARATIONS FOR
NEW BEDFORD HARBOR



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NO.	DATE	DESCRIPTION
1.	[illegible]	PRELIM. DREDGE LAYOUT
2.	11/14/08	BID SET
3.	1/[illegible]	RE-BID
4.	1/[illegible]/10	POST-DREDGE SAMPLES

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PROJECT TITLE:

NEW BEDFORD HARBOR NAVIGATIONAL DREDGE - PHASE III, PART A & B

PREPARED FOR:

THE NEW BEDFORD HARBOR DEVELOPMENT COMMISSION AND THE TOWN OF FAIRHAVEN, MASSACHUSETTS

DRAWING TITLE:

OLDE NORTH WHARF FISHERIES DREDGE AREAS PRE AND POST DREDGE SAMPLING LOCATIONS

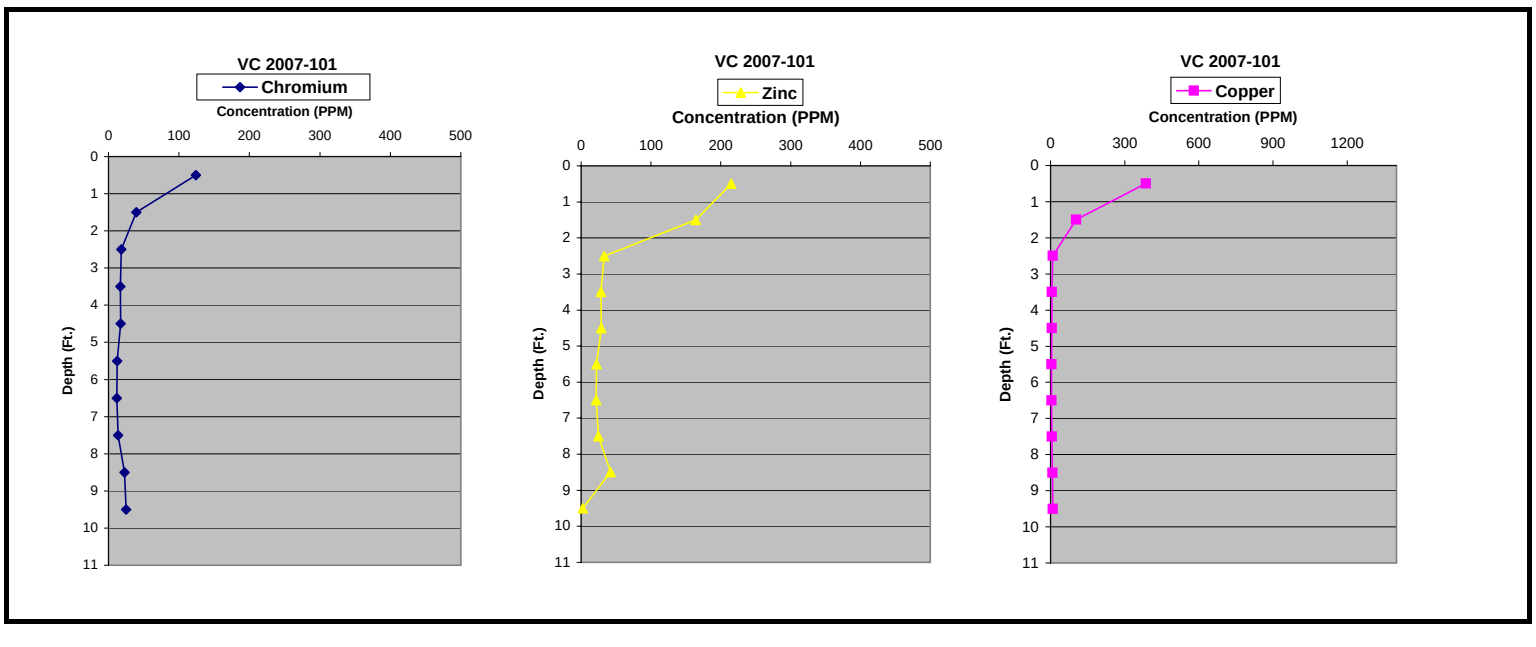
NOT FOR CONSTRUCTION

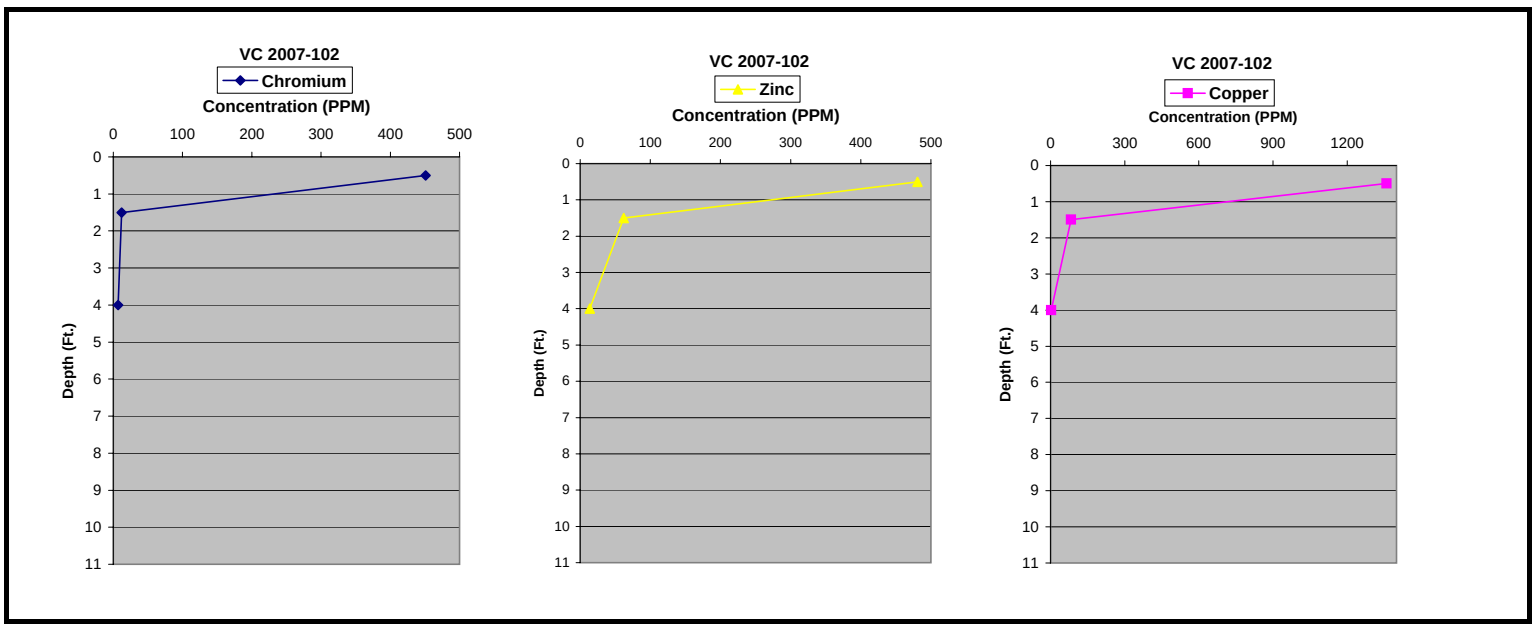
Scale:
0 10 20 40 60 FEET

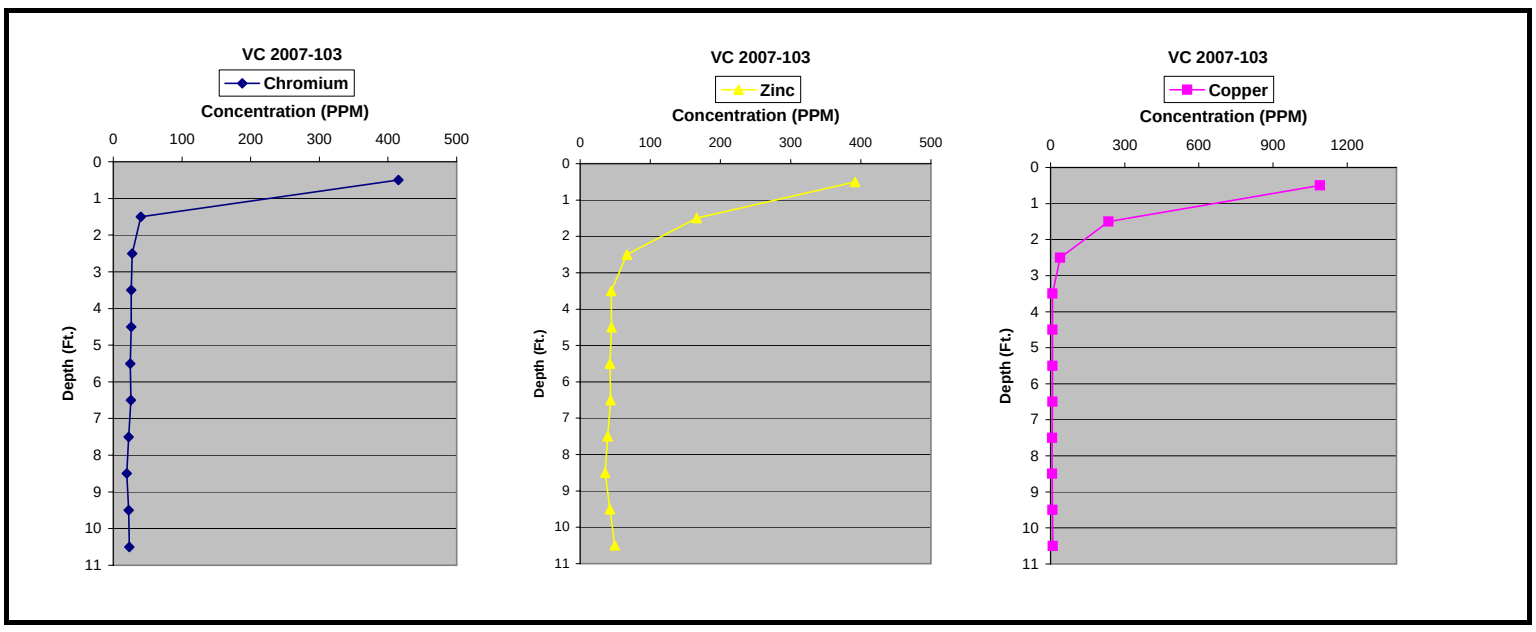
Date 9/5/08	Drawing No.
Proj. Mgr. JAB	
Design GCD	
Check CM	V-7
Drawn GCD	
Job. No. 6615	
Last Rev. 1/22/10	

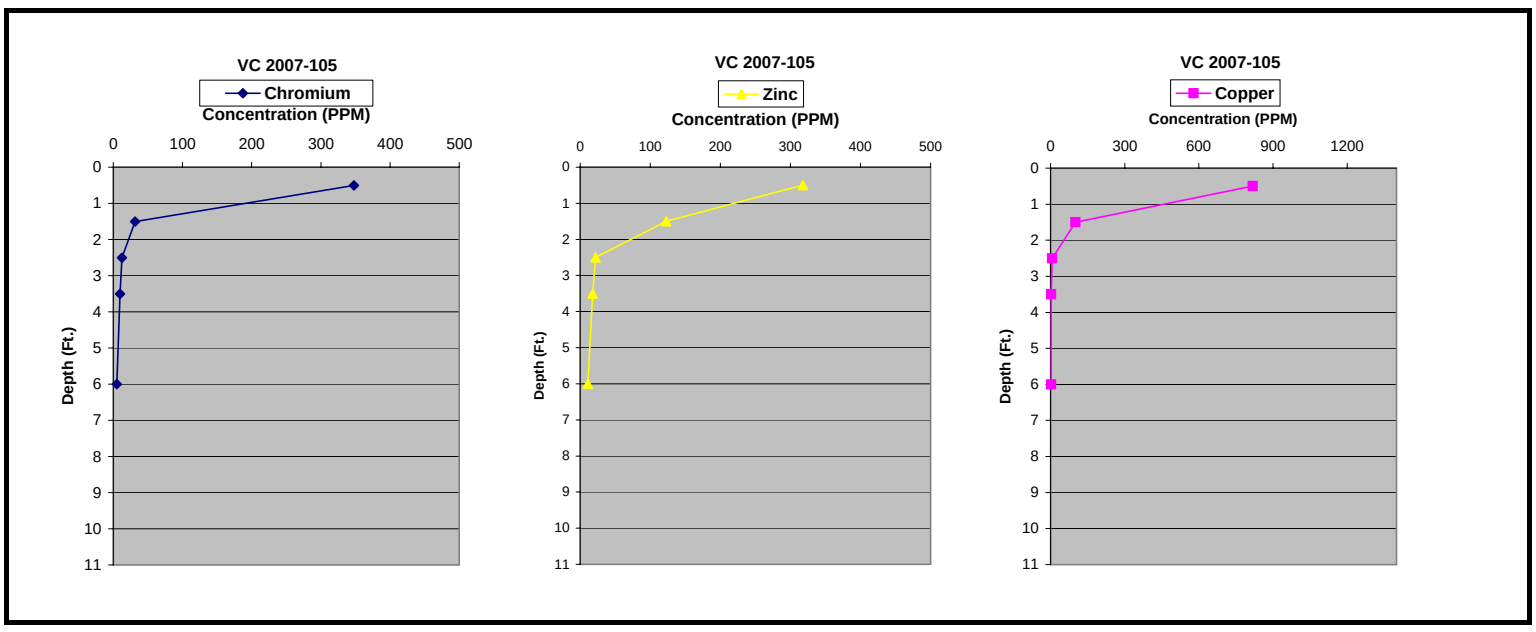
APPENDIX B

CAD Cell #2 Suitability Determination Sampling Results

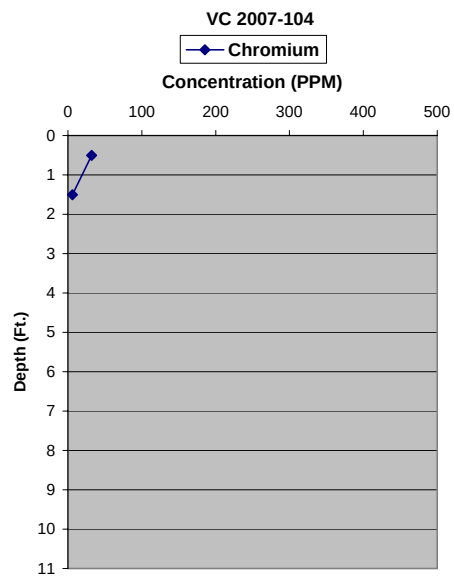


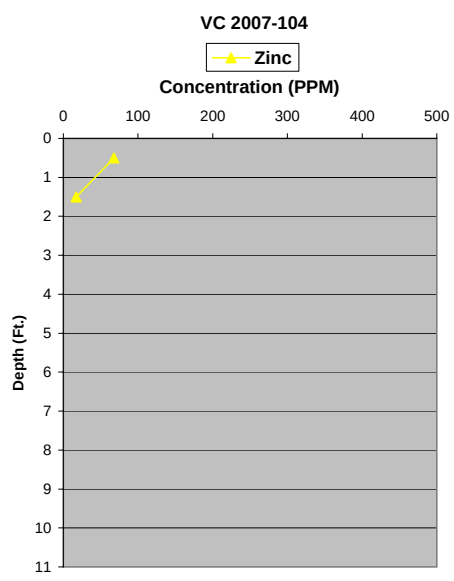


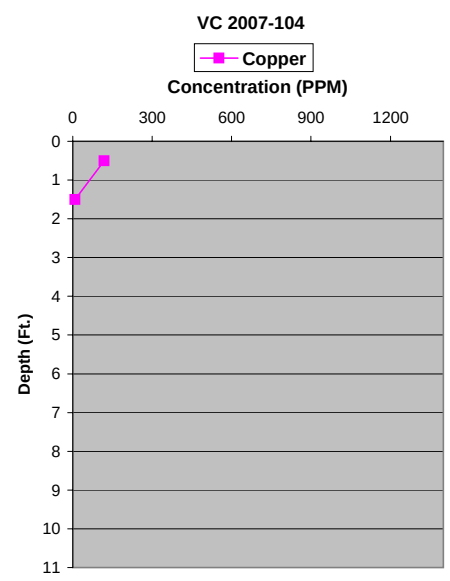


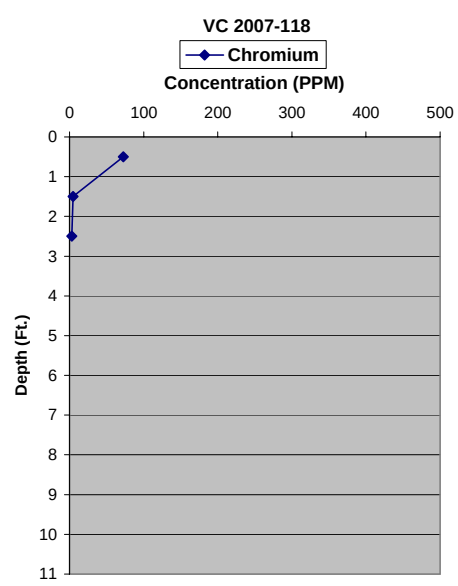


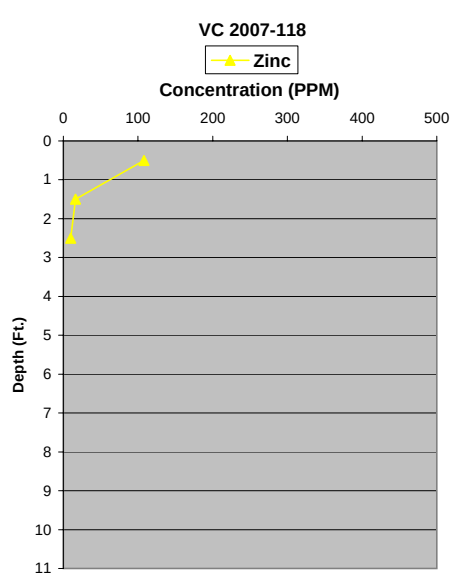
CAD Cell #2 Suitability Determination Sampling Results

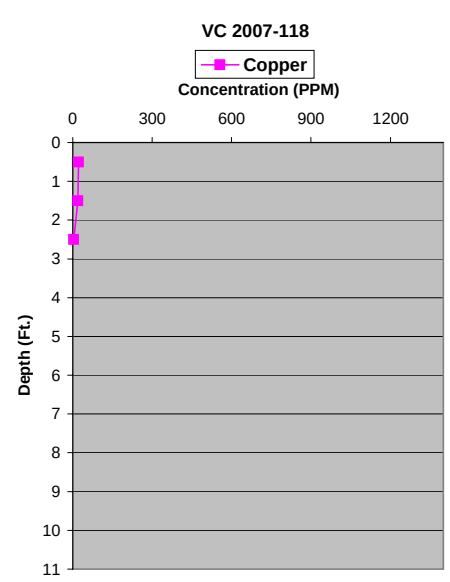


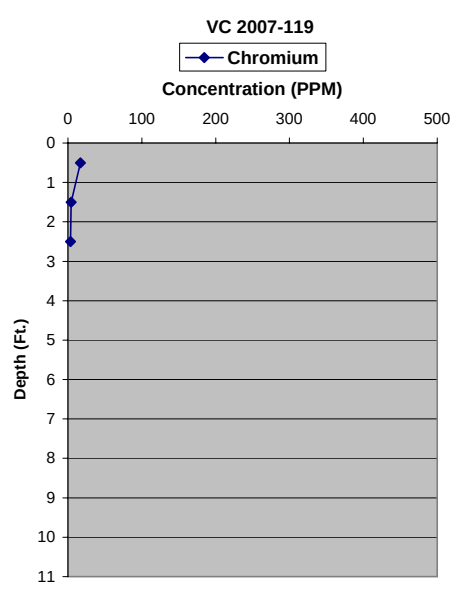


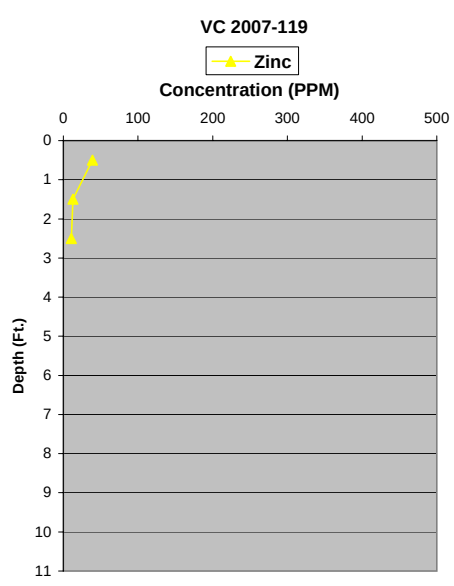


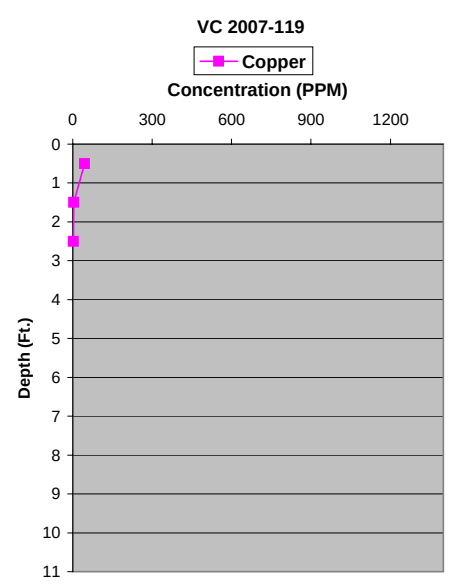


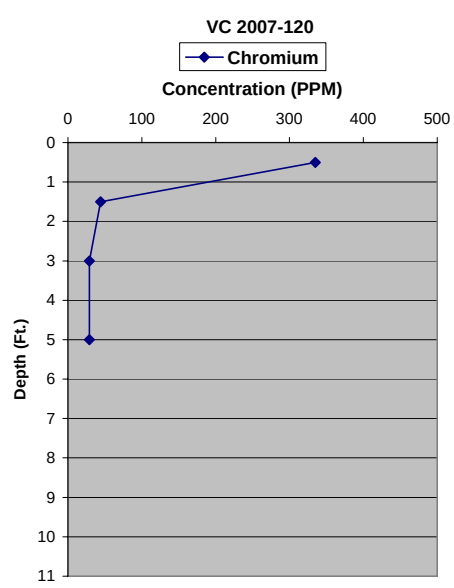


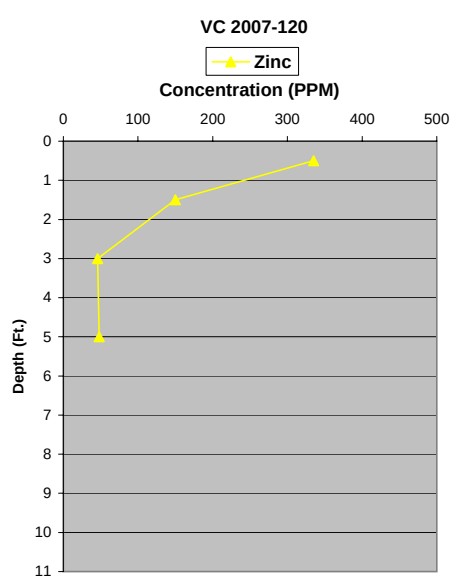


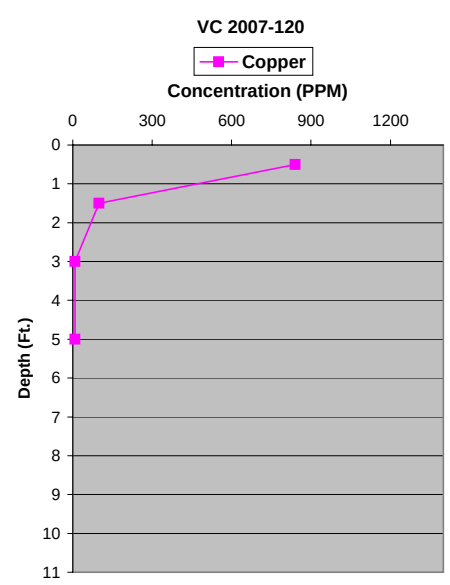












APPENDIX C

SVOCs (EPA Method 8270)	Water Reporting Limit (ug/L)	Water Method Detection Limit	Soil/Sediment Reporting Limit (ug/kg)	Soil/Sediment Method Detection Limit
N-Nitrosodimethylamine	0.5	0.079	400	12.0
Pyridine	2	1.574	1600	45.3
Benzaldehyde	0.5	0.199	400	10.5
Aniline	0.5	0.161	400	58.6
bis(2-Chloroethyl)ether	0.5	0.088	400	11.1
Phenol	0.5	0.062	400	15.7
2-Chlorophenol	0.5	0.073	400	17.6
1,3-Dichlorobenzene	0.5	0.097	400	9.4
1,4-Dichlorobenzene	0.5	0.099	400	10.1
1,2-Dichlorobenzene	0.5	0.112	400	10.7
Benzyl alcohol	0.5	0.071	400	66.2
bis(2-chloroisopropyl)ether	0.5	0.093	400	10.3
2-Methylphenol	0.5	0.120	400	16.6
Acetophenone	0.5	0.143	400	11.7
Hexachloroethane	0.5	0.117	400	18.0
N-Nitroso-di-n-propylamine	0.5	0.089	400	16.9
4-Methylphenol	0.5	0.116	400	14.3
Nitrobenzene	0.5	0.110	400	11.4
Isophorone	0.5	0.090	400	11.5
2-Nitrophenol	0.5	0.078	400	36.6
2,4-Dimethylphenol	0.5	0.097	400	16.8
Benzoic acid	2	0.725	1600	16.6
bis(2-Chloroethoxy)methane	0.5	0.087	400	11.3
2,4-Dichlorophenol	0.5	0.081	400	47.8
1,2,4-Trichlorobenzene	0.5	0.102	400	10.2
Naphthalene	0.5	0.110	400	10.7
4-Chloroaniline	0.5	0.119	400	17.0
Hexachlorobutadiene	0.5	0.137	400	11.7
Caprolactam	0.5	0.072	400	29.4
4-Chloro-3-methylphenol	0.5	0.059	400	17.7
2-Methylnaphthalene	0.5	0.112	400	10.7
Hexachlorocyclopentadiene	2	0.093	1600	36.6
2,4,6-Trichlorophenol	0.5	0.063	400	32.7
2,4,5-Trichlorophenol	0.5	0.077	400	21.7
Biphenyl	0.5	0.124	400	11.4
2-Chloronaphthalene	0.5	0.111	400	10.8
2-Nitroaniline	0.5	0.050	400	18.7
Acenaphthylene	0.5	0.092	400	11.7
Dimethylphthalate	0.5	0.054	400	10.9
2,6-Dinitrotoluene	0.5	0.064	400	22.3
Acenaphthene	0.5	0.090	400	11.3
3-Nitroaniline	0.5	0.056	400	15.2
2,4-Dinitrophenol	2	1.352	1600	36.1
Dibenzofuran	0.5	0.096	400	11.4
2,4-Dinitrotoluene	0.5	0.050	400	20.7
4-Nitrophenol	0.5	0.065	400	64.1
Fluorene	0.5	0.073	400	9.9
4-Chlorophenyl-phenylether	0.5	0.075	400	9.9
Diethylphthalate	0.5	0.043	400	10.1
4-Nitroaniline	0.5	0.153	400	15.6
4,6-Dinitro-2-methylphenol	2	0.053	1600	41.0
Azobenzene	0.5	0.067	400	10.1
n-Nitrosodiphenylamine	0.5	0.051	400	11.9
4-Bromophenyl-phenylether	0.5	0.059	400	13.5

Hexachlorobenzene	0.5	0.061	400	11.5
Atrazine	0.5	0.054	400	13.3
Pentachlorophenol	2	0.069	1600	44.6
Phenanthrene	0.5	0.067	400	11.7
Anthracene	0.5	0.077	400	10.5
Carbazole	0.5	0.050	400	10.5
Di-n-butylphthalate	0.5	0.048	400	28.8
Fluoranthene	0.5	0.040	400	9.9
Benzidine	2	0.897	1600	13.0
Pyrene	0.5	0.035	400	7.6
Butylbenzylphthalate	0.5	0.452	400	11.1
3,3'-Dichlorobenzidine	0.5	0.057	400	28.3
Benz[a]anthracene	0.5	0.036	400	7.3
Chrysene	0.5	0.051	400	8.5
bis(2-Ethylhexyl)phthalate	0.5	0.185	400	12.3
Di-n-octylphthalate	0.5	1.905	400	9.5
Benzo[b]fluoranthene	0.5	0.158	400	20.8
Benzo[k]fluoranthene	0.5	0.145	400	22.8
Benzo[a]pyrene	0.5	0.076	400	10.1
Indeno[1,2,3-cd]pyrene	0.5	0.038	400	10.1
Dibenz[a,h]anthracene	0.5	0.038	400	10.5
Benzo[g,h,i]perylene	0.5	0.022	400	10.3

PCBs/22 NOAA Congeners (EPA Method 8270C Mod.)	Water Reporting Limit (ng/L)	Water Method Detection Limit	Soil/Sediment Reporting Limit (ug/kg)	Soil/Sediment Method Detection Limit
Cl2-BZ#8-Cal	1	0.092	0.8	0.127
Cl3-BZ#18	1	0.200	0.8	0.134
Cl3-BZ#28	1	0.201	0.8	0.094
Cl4-BZ#52	1	0.284	0.8	0.050
Cl4-BZ#49	1	0.220	0.8	0.363
Cl4-BZ#44	1	0.164	0.8	0.089
Cl4-BZ#66	1	0.184	0.8	0.065
Cl5-BZ#101	1	0.161	0.8	0.099
Cl5-BZ#87-Cal	1	0.270	0.8	0.074
Cl5-BZ#118	1	0.209	0.8	0.195
Cl6-BZ#153	1	0.099	0.8	0.164
Cl7-BZ#184	1	0.367	0.8	0.196
Cl5-BZ#105	1	0.140	0.8	0.218
Cl6-BZ#138	1	0.198	0.8	0.145
Cl7-BZ#187	1	0.150	0.8	0.220
Cl7-BZ#183	1	0.155	0.8	0.062
Cl6-BZ#128	1	0.268	0.8	0.158
Cl7-BZ#180	1	0.185	0.8	0.105
Cl7-BZ#170	1	0.382	0.8	0.129
Cl8-BZ#195	1	0.286	0.8	0.205
Cl9-BZ#206-Cal/RTW	1	0.465	0.8	0.147
Cl10-BZ#209-Cal/RTW	1	0.172	0.8	0.145

TPH (EPA Method 8015)	Water Reporting Limit (ug/L)	Water Method Detection Limit	Soil/Sediment Reporting Limit (ug/kg)	Soil/Sediment Method Detection Limit
TPH	500	75	33,300	5300

Metals Reportable and Method Detection Limits

	Water			Soil		
Analyte	RL	MDL	Method	RL	MDL	Method
	(ug/L)	(ug/L)		(mg/kg)	(mg/kg)	
Aluminum	50	22	6020A	10	2.2	6020A
Antimony	0.5	0.026	6020A	0.05	0.008	6020A
Arsenic	0.5	0.085	6020A	0.05	0.004	6020A
Barium	0.5	0.07	6020A	0.1	0.019	6020A
Beryllium	0.5	0.041	6020A	0.05	0.004	6020A
Cadmium	0.5	0.084	6020A	0.05	0.004	6020A
Calcium	100	19	6020A	50	4.4	6020A
Chromium	1	0.3	6020A	0.2	0.019	6020A
Cobalt	0.2	0.023	6020A	0.05	0.007	6020A
Copper	1	0.33	6020A	0.1	0.02	6020A
Iron	50	8.1	6020A	20	3.1	6020A
Lead	1	0.065	6020A	0.05	0.003	6020A
Magnesium	50	1.6	6020A	10	2.1	6020A
Manganese	0.5	0.12	6020A	0.2	0.02	6020A
Mercury	0.05	0.0005	7474	0.012	0.002	7474
Nickel	0.5	0.15	6020A	0.1	0.014	6020A
Potassium	200	6.1	6020A	10	2.5	6020A
Selenium	5	0.34	6020A	0.1	0.017	6020A
Silver	0.2	0.024	6020A	0.05	0.002	6020A
Sodium	100	5.4	6020A	10	2.1	6020A
Thallium	0.2	0.005	6020A	0.05	0.004	6020A
Vanadium	5	0.14	6020A	0.1	0.01	6020A
Zinc	10	1.4	6020A	1	0.22	6020A

VOCs in Soil - Low EPA 8260B		
Analytes	Method Detection Limit ug/Kg	Reportable Limit ug/Kg
Acetone	3.235	10
Acrylonitrile	0.376	10
Benzene	0.129	1
Bromobenzene	0.201	5
Bromochloromethane	0.302	5
Bromodichloromethane	0.229	1
Bromoform	0.415	4
Bromomethane	0.648	2
Carbon disulfide	0.149	10
Carbon tetrachloride	0.190	1
Chlorobenzene	0.348	1
Chlorodibromomethane	0.308	1
Chloroethane	0.438	2
Chloroform	0.370	2
Chloromethane	0.783	5
cis-1,2-Dichloroethene	0.256	1
cis-1,3-Dichloropropene	0.267	1
Dibromomethane	0.435	10
Dichlorodifluoromethane	0.317	10
Ethyl benzene	0.150	1
ethyl ether	0.380	5
Ethyl-methacrylate	0.639	1
Hexachlorobutadiene	0.422	5
Isopropylbenzene	0.168	1
Methylene chloride	0.816	2
Methyl-tert-butyl ether	0.487	10
Naphthalene	0.770	5
n-Butylbenzene	0.198	1
n-Propylbenzene	0.188	1
o-Xylene	0.271	2
p/m-Xylene	0.323	2
p-Isopropyltoluene	0.191	1
sec-Butylbenzene	0.206	1
Styrene	0.552	2
tert-Butylbenzene	0.561	5
Tetrachloroethene	0.160	1
Tetrahydrofuran	0.340	20
Toluene	0.175	2
trans-1,2-Dichloroethene	0.178	2
trans-1,3-Dichloropropene	0.143	1
trans-1,4-Dichloro-2-butene	1.478	5
Trichloroethene	0.187	1
Trichlorofluoromethane	0.231	5
Vinyl Acetate	0.885	10
Vinyl chloride	0.361	2
1,1-Dichloroethane	0.206	10
1,1-Dichloroethene	0.178	1
1,1-Dichloropropene	0.456	5
1,1,1-Trichloroethane	0.193	1
1,1,2-Trichloroethane	0.248	2
1,1,1,2-Tetrachloroethane	0.318	1
1,1,2,2-Tetrachloroethane	0.240	1
1,2-Dibromo-3-chloropropane	0.837	5
1,2-Dibromoethane	0.211	4
1,2-Dichlorobenzene	0.364	5
1,2-Dichloroethane	0.207	1
1,2-Dichloropropane	0.233	4
1,2,3-Trichlorobenzene	0.403	5
1,2,3-Trichloropropane	0.387	10
1,2,4-Trichlorobenzene	0.790	5
1,2,4-Trimethylbenzene	0.573	5
1,3-Dichlorobenzene	0.225	5
1,3-Dichloropropane	0.173	5
1,3,5-Trimethylbenzene	0.164	5
1,4-Dichlorobenzene	0.301	5
1,4-Dichloro-2-butane	0.120	10
2-Butanone	0.500	10
2-Chlorotoluene	0.313	5
2,2-Dichloropropene	0.767	5
4-Chlorotoluene	0.208	5
4-methyl-2-pentanone	0.454	10
Non-Standard Compounds		
1,2,4,5-tetramethylbenzene	0.905	1
1,4-Dioxane	143.764	500
2-Chloroethylvinyl ether	0.616	5
2-Hexanone	0.396	10
4-ethyltoluene	0.485	1
Acrolein	3.009	25

VOCs in Soil - High EPA 8260B		
Analytes	Method Detection Limit ug/Kg	Reportable Limit ug/Kg
Acetone	161.75	500
Acrylonitrile	60.07	200
Benzene	9.62	50
Bromobenzene	16.59	250
Bromochloromethane	17.87	250
Bromodichloromethane	19.24	50
Bromoform	55.76	200
Bromomethane	29.12	100
Carbon disulfide	12.85	500
Carbon tetrachloride	13.93	50
Chlorobenzene	12.33	50
Chlorodibromomethane	16.02	50
Chloroethane	21.96	100
Chloroform	16.23	75
Chloromethane	39.16	250
cis-1,2-Dichloroethene	12.80	50
cis-1,3-Dichloropropene	13.37	50
Dibromomethane	21.74	500
Dichlorodifluoromethane	86.60	500
Ethyl benzene	18.99	50
Ethyl ether	17.96	250
Ethyl methacrylate	73.57	500
Hexachlorobutadiene	21.12	250
Isopropylbenzene	9.66	50
Methylene chloride	22.85	500
Methyl-tert-butyl ether	57.14	100
Naphthalene	33.05	250
n-Butylbenzene	41.10	50
n-Propylbenzene	9.99	50
o-Xylene	11.70	100
p/m-Xylene	28.49	100
p-Isopropyltoluene	9.75	50
sec-Butylbenzene	10.65	50
Styrene	30.71	100
tert-Butylbenzene	28.04	250
Tetrachloroethene	14.51	50
Tetrahydrofuran	56.40	1000
Toluene	9.49	75
trans-1,2-Dichloroethene	15.00	75
trans-1,3-Dichloropropene	16.84	50
trans-1,4-Dichloro-2-butene	73.90	250
Trichloroethene	14.07	50
Trichlorofluoromethane	21.75	250
Vinyl acetate	68.27	500
Vinyl chloride	27.73	100
1,1-Dichloroethane	11.78	75
1,1-Dichloroethene	16.56	50
1,1-Dichloropropene	22.78	250
1,1,1-Trichloroethane	10.15	50
1,1,2-Trichloroethane	20.52	75
1,1,1,2-Tetrachloroethane	16.42	50
1,1,2,2-Tetrachloroethane	14.46	50
1,2-Dibromo-3-chloropropane	74.11	250
1,2-Dibromoethane	10.72	200
1,2-Dichlorobenzene	18.21	250
1,2-Dichloroethane	14.67	50
1,2-Dichloropropane	12.57	180
1,2,3-Trichlorobenzene	46.21	250
1,2,3-Trichloropropane	20.93	500
1,2,4-Trichlorobenzene	43.47	250
1,2,4-Trimethylbenzene	76.33	250
1,3-Dichlorobenzene	18.82	250
1,3-Dichloropropane	11.73	250
1,3,5-Trimethylbenzene	68.60	250
1,4-Dichlorobenzene	15.27	250
1,4-Dichlorobutane	39.17	500
2-Butanone	193.86	500
2-Chlorotoluene	15.65	250
2-Hexanone	62.98	500
2,2-Dichloropropane	60.57	250
4-Chlorotoluene	14.22	250
4-Methyl-2-pentanone	88.37	500
Non-Standard Compounds		
1,4-Dioxane	7575.94	25000
2-Chloroethylvinyl ether	15.64	1000
4-ethyltoluene	24.25	50
Acrolein	150.44	1200
Diisopropyl ether	47.70	200

VOCs in Liquid EPA 8260B		
Analytes	Method Detection Limit ug/L	Reportable Limit ug/L
Acetone	1.561	5.0
Acrylonitrile	0.430	5.0
Benzene	0.194	0.5
Bromobenzene	0.184	2.5
Bromochloromethane	0.329	2.5
Bromodichloromethane	0.192	0.5
Bromoform	0.248	2.0
Bromomethane	0.257	1.0
Carbon disulfide	0.299	5.0
Carbon tetrachloride	0.165	0.5
Chlorobenzene	0.192	0.5
Chlorodibromomethane	0.189	0.5
Chloroethane	0.233	1.0
Chloroform	0.198	0.75
Chloromethane	0.281	2.5
cis-1,2-Dichloroethene	0.187	0.5
cis-1,3-Dichloropropene	0.144	0.5
Cyclohexane	0.245	10.0
Dibromomethane	0.363	5.0
Dichlorodifluoromethane	0.300	5.0
Ethyl acetate	0.716	10.0
Ethyl benzene	0.265	0.5
Ethyl ether	0.205	2.5
Ethyl-methacrylate	0.606	5.0
Halothane	0.149	2.0
Hexachlorobutadiene	0.230	0.5
Isopropylbenzene	0.187	0.5
Methylene chloride	0.539	5.0
Methyl cyclohexane	0.288	10.0
Methyl-tert-butyl ether	0.160	1.0
Naphthalene	0.217	2.5
n-Butylbenzene	0.196	0.5
n-Propylbenzene	0.173	0.5
o-Xylene	0.330	1.0
p/m-Xylene	0.348	1.0
p-Diethylbenzene	0.108	2.0
p-Isopropyltoluene	0.188	0.5
sec-Butylbenzene	0.181	0.5
Styrene	0.359	1.0
tert-Butylbenzene	0.302	2.5
Tert butyl Alcohol	0.899	50.0
Tetrachloroethene	0.181	0.5
Tetrahydrofuran	1.299	10.0
Toluene	0.227	0.75
trans-1,2-Dichloroethene	0.211	0.75
trans-1,3-Dichloropropene	0.164	0.5
trans-1,4-Dichloro-2-butene	0.173	2.5
Trichloroethene	0.175	0.5
Trichlorofluoromethane	0.267	2.5
Vinyl acetate	0.311	5.0
Vinyl chloride	0.224	1.0
1,1-Dichloroethane	0.216	0.75
1,1-Dichloroethene	0.181	0.5
1,1-Dichloropropene	0.256	2.5
1,1,1-Trichloroethane	0.158	0.5
1,1,2-Trichloroethane	0.261	0.75
1,1,1,2-Tetrachloroethane	0.165	0.5
1,1,2,2-Tetrachloroethane	0.192	0.5
1,2-Dibromo-3-chloropropane	0.327	2.5
1,2-Dibromoethane	0.326	2.0
1,2-Dichlorobenzene	0.184	2.5
1,2-Dichloroethane	0.160	0.5
1,2-Dichloropropane	0.296	1.75
1,2,3-Trichlorobenzene	0.234	2.5
1,2,3-Trichloropropane	0.428	5.0
1,2,4-Trichlorobenzene	0.220	2.5
1,2,4-Trimethylbenzene	0.268	2.5
1,2,4,5-Tetramethylbenzene	0.097	2.0
1,3-Dichlorobenzene	0.186	2.5
1,3-Dichloropropane	0.212	2.5
1,3,5-Trimethylbenzene	0.211	2.5
1,4-Dichlorobenzene	0.215	2.5
1,4-Dichloro-2-butane	0.464	5.0
2-Butanone	1.939	5.0
2-Chloroethylvinyl ether	0.402	10.0
2-Chlorotoluene	0.182	2.5
2-Hexanone	0.578	5.0
2,2-Dichloropropane	0.397	2.5

cyclohexane	0.625	5
Diisopropyl ether	0.149	4
Ethyl Acetate	0.128	1
Ethyl-tert-butyl ether	0.423	4
Freon-113	0.215	20
Halothane	0.150	5
Iodomethane	1.267	10
Methyl acetate	0.466	10
methyl cyclohexane	0.699	4
p-diethylbenzene	1.000	1
Tert-Butyl Alcohol	0.642	60
Tertiary-amyl methyl ether	0.576	4

Ethyl-Tert-Butyl-Ether	43.81	200
Freon-113	46.63	200
Iodomethane	63.34	500
Tert-Butyl Alcohol	62.54	500
Tertiary-Amyl Methyl Ether	50.52	200

4-Chlorotoluene	0.185	2.5
4-Ethyltoluene	0.416	2.0
4,-Methy-2-pentanone	0.416	5.0
Non-Standard Compounds		
Diisopropyl Ether	0.165	2.0
Ethyl-Tert-Butyl-Ether	0.460	2.0
Tertiary-Amyl Methyl Ether	0.382	2.0
1,4-Dioxane	75.706	250
Freon -113	0.234	10.0

APPENDIX D

4 Wright Street
4 Wright Street
New Bedford, MA 02740

Inquiry Number: 2707507.2s
February 24, 2010

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
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 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

4 WRIGHT STREET
NEW BEDFORD, MA 02740

COORDINATES

Latitude (North):	41.624400 - 41˚ 37' 27.8''
Longitude (West):	70.916200 - 70˚ 54' 58.3''
Universal Tranverse Mercator:	Zone 19
UTM X (Meters):	340367.2
UTM Y (Meters):	4609635.5
Elevation:	0 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	41070-F8 NEW BEDFORD NORTH, MA
Most Recent Revision:	1979
South Map:	41070-E8 NEW BEDFORD SOUTH, MA
Most Recent Revision:	1977

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year:	2006
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

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

EXECUTIVE SUMMARY

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

Federal Delisted NPL site list

Delisted NPL ..... National Priority List Deletions

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-LQG ..... RCRA - Large Quantity Generators
RCRA-SQG ..... RCRA - Small Quantity Generators

Federal institutional controls / engineering controls registries

US ENG CONTROLS ..... Engineering Controls Sites List
US INST CONTROL ..... Sites with Institutional Controls

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

AST ..... Aboveground Storage Tank Database
INDIAN UST ..... Underground Storage Tanks on Indian Land
FEMA UST ..... Underground Storage Tank Listing

State and tribal voluntary cleanup sites

INDIAN VCP ..... Voluntary Cleanup Priority Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

ODI ..... Open Dump Inventory
DEBRIS REGION 9 ..... Torres Martinez Reservation Illegal Dump Site Locations
INDIAN ODI ..... Report on the Status of Open Dumps on Indian Lands

EXECUTIVE SUMMARY

Local Lists of Hazardous waste / Contaminated Sites

US CDL ..... Clandestine Drug Labs
US HIST CDL ..... National Clandestine Laboratory Register

Local Land Records

LIENS 2 ..... CERCLA Lien Information
LUCIS ..... Land Use Control Information System

Records of Emergency Release Reports

HMIRS ..... Hazardous Materials Information Reporting System

Other Ascertainable Records

DOT OPS ..... Incident and Accident Data
DOD ..... Department of Defense Sites
FUDS ..... Formerly Used Defense Sites
CONSENT ..... Superfund (CERCLA) Consent Decrees
ROD ..... Records Of Decision
UMTRA ..... Uranium Mill Tailings Sites
MINES ..... Mines Master Index File
TRIS ..... Toxic Chemical Release Inventory System
TSCA ..... Toxic Substances Control Act
FTTS ..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS ..... FIFRA/TSCA Tracking System Administrative Case Listing
SSTS ..... Section 7 Tracking Systems
ICIS ..... Integrated Compliance Information System
PADS ..... PCB Activity Database System
MLTS ..... Material Licensing Tracking System
RADINFO ..... Radiation Information Database
RAATS ..... RCRA Administrative Action Tracking System
DRYCLEANERS ..... Regulated Drycleaning Facilities
ENF ..... Enforcement Action Cases
AIRS ..... Permitted Facilities Listing
LEAD ..... Lead Inspection Database
INDIAN RESERV ..... Indian Reservations
SCRD DRYCLEANERS ..... State Coalition for Remediation of Drycleaners Listing
COAL ASH DOE ..... Sleam-Electric Plan Operation Data
PCB TRANSFORMER ..... PCB Transformer Registration Database
GWDP ..... Ground Water Discharge Permits
COAL ASH EPA ..... Coal Combustion Residues Surface Impoundments List
FINANCIAL ASSURANCE ..... Financial Assurance Information Listing

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.

EXECUTIVE SUMMARY

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 06/30/2009 has revealed that there is 1 CERCLIS site within approximately 0.625 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COMMONWEALTH ELECTRIC PROPERTY	180 MACARTHUR DRIVE	NNW 1/2 - 1 (0.605 mi.)	H40	194

Federal CERCLIS NFRAP site List

CERC-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 CERC-NFRAP list, as provided by EDR, and dated 06/23/2009 has revealed that there are 2 CERC-NFRAP sites within approximately 0.625 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MORSE CUTTING TOOLS	***163 PLEASANT STREET***	***WNW 1/2 - 1 (0.515 mi.)***	***G31***	***103***
DARTMOUTH FINISHING	***45 COVE STREET***	***S 1/2 - 1 (0.555 mi.)***	***35***	***139***

Federal RCRA generators list

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 01/13/2010 has revealed that there are 3 RCRA-CESQG sites within approximately 0.375 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BRODEUR C P INC	***80 WRIGHT ST***	***WSW 0 - 1/8 (0.060 mi.)***	***A5***	***13***
BARRYS ROUTE 18 COLLISION	***75 MACARTHUR BLVD***	***W 1/8 - 1/4 (0.175 mi.)***	***10***	***19***
J J TRUCK REPAIR INC	***85 CONWAY ST***	***NW 1/8 - 1/4 (0.204 mi.)***	***C14***	***32***

EXECUTIVE SUMMARY

Federal ERNS list

ERNS: The Emergency Response Notification System records and stores information on reported releases of oil and hazardous substances. The source of this database is the U.S. EPA.

A review of the ERNS list, as provided by EDR, and dated 12/31/2009 has revealed that there are 2 ERNS sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CAPE VERDE WAREHOUSE-10 SOUTH	CAPE VERDE WAREHOUSE-10	NNW 0 - 1/8 (0.084 mi.)	6	15
15 SOUTH ST.	15 SOUTH ST.	WNW 0 - 1/8 (0.117 mi.)	B7	15

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 01/15/2010 has revealed that there are 68 SHWS sites within approximately 1.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NORTHERN WIND SEAFOOD	***14 HASSEY ST***	***N 0 - 1/8 (0.037 mi.)***	***A2***	***7***
Compliance Status: Release Action Outcome				
NEAR SOUTH TERMINAL	***16 HASSEY ST***	***N 0 - 1/8 (0.042 mi.)***	***3***	***11***
Compliance Status: Adequately Regulated				
NO LOCATION AID	***15 SOUTH ST***	***WNW 0 - 1/8 (0.117 mi.)***	***B8***	***15***
Compliance Status: Release Action Outcome				
PIER FISH COMPANY	***68 CONWAY ST***	***NW 1/8 - 1/4 (0.195 mi.)***	***C12***	***27***
Compliance Status: Release Action Outcome				
ATLANTIC COAST FISHERIES	***CAPE ST***	***NNW 1/8 - 1/4 (0.219 mi.)***	***C17***	***42***
Compliance Status: Release Action Outcome				
SRTA	***65 POTOMSKA ST***	***WSW 1/8 - 1/4 (0.248 mi.)***	***D19***	***47***
Compliance Status: Response Action Outcome Not Required				
LOT 4	***BLACKMER ST***	***SSW 1/4 - 1/2 (0.307 mi.)***	***E21***	***54***
Compliance Status: Release Action Outcome				
DARN-IT, INC. LOADING DOCK	***84 GIFFORD ST***	***SSW 1/4 - 1/2 (0.435 mi.)***	***24***	***73***
Compliance Status: Release Action Outcome				
Compliance Status: Release Action Outcome				
**Additional key fields are available in the Map Findings section*				
STANDARD TAXI	***241 COUNTY ST***	***W 1/4 - 1/2 (0.453 mi.)***	***25***	***79***
Compliance Status: Tier II Release .				
ATLANTIC ELEVATOR & GARAGE	***128 GRINNELL ST***	***W 1/4 - 1/2 (0.467 mi.)***	***26***	***83***
Compliance Status: Release Action Outcome				
SPRAGUE ENERGY	***30 PINE ST***	***NW 1/4 - 1/2 (0.479 mi.)***	***F28***	***92***
Compliance Status: Release Action Outcome				
GLOBAL OIL FACILITY	***30 PINE ST***	***NW 1/4 - 1/2 (0.479 mi.)***	***F29***	***95***
Compliance Status: Release Action Outcome				
Compliance Status: Adequately Regulated				
MORSE CUTTING TOOLS	***163 PLEASANT STREET***	***WNW 1/2 - 1 (0.515 mi.)***	***G31***	***103***
Compliance Status: Tier 1B Release.				

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MORSE CUTTING TOOLS FMR	***163 PLEASANT ST***	***WNW 1/2 - 1 (0.515 mi.)***	***G32***	***128***
Compliance Status: Tier 1B Release.				
ALLEY WAY OF BILDING	***21 COVE ST***	***SSE 1/2 - 1 (0.534 mi.)***	***34***	***136***
Compliance Status: Release Action Outcome				
DARTMOUTH FINISHING	***45 COVE STREET***	***S 1/2 - 1 (0.555 mi.)***	***35***	***139***
Compliance Status: Release Action Outcome				
NO LOCATION AID	***180 MACARTHUR DR***	***NNW 1/2 - 1 (0.605 mi.)***	***H37***	***165***
Compliance Status: Release Action Outcome				
Compliance Status: URAM				
NEW BEDFORD OCEANARIUM	***180 MACARTHUR DR***	***NNW 1/2 - 1 (0.605 mi.)***	***H39***	***178***
Compliance Status: Tier 1B Release.				
CANNON ST STATION	***180 MACARTHUR DR***	***NNW 1/2 - 1 (0.605 mi.)***	***H42***	***204***
Compliance Status: Release Action Outcome				
COMM ELECTRIC POWER PLANT FMR	***180 MACARTHUR DR***	***NNW 1/2 - 1 (0.605 mi.)***	***H43***	***209***
Compliance Status: Release Action Outcome				
SOUTH TRANSFORMER YARD	***180 MACARTHUR DR***	***NNW 1/2 - 1 (0.605 mi.)***	***H44***	***212***
Compliance Status: Release Action Outcome				
Compliance Status: Release Action Outcome				
NO LOCATION AID	***104 WINSOR ST***	***SW 1/2 - 1 (0.689 mi.)***	***46***	***221***
Compliance Status: Tier 1D Release.				
TEXIERA RESIDENCE	***138-140 ROCKLAND ST***	***WSW 1/2 - 1 (0.703 mi.)***	***47***	***224***
Compliance Status: Release Action Outcome				
MAP 46 LOTS 160 & 163	***WALNUT / PLEASANT ST***	***NW 1/2 - 1 (0.726 mi.)***	***49***	***231***
Compliance Status: Unclassified				
Not reported	***STATE PIER***	***N 1/2 - 1 (0.744 mi.)***	***J53***	***242***
Compliance Status: Adequately Regulated				
NEW BEDFORD HARBOR	***ACUSHNET ESTUARY***	***NNW 1/2 - 1 (0.744 mi.)***	***J54***	***247***
Compliance Status: Tier 1A Release.				
FINICKY PET FOOD INC	***16 FRONT ST***	***NNW 1/2 - 1 (0.769 mi.)***	***K55***	***249***
Compliance Status: Release Action Outcome				
DELKEN CO	***16 FRONT ST***	***NNW 1/2 - 1 (0.769 mi.)***	***K56***	***253***
Compliance Status: Release Action Outcome				
NBPD PARKING LOT	***25 SPRING ST***	***NW 1/2 - 1 (0.776 mi.)***	***57***	***261***
Compliance Status: Release Action Outcome				
MOTT STREET PARK	***99 CLEVELAND ST***	***SSE 1/2 - 1 (0.780 mi.)***	***58***	***263***
Compliance Status: Release Action Outcome				
PROPERTY	***486 SOUTH ORCHARD ST***	***WSW 1/2 - 1 (0.781 mi.)***	***L59***	***265***
Compliance Status: Release Action Outcome				
REAR OF PROPERTY	***89 WEST RODNEY FRENCH B***	***S 1/2 - 1 (0.783 mi.)***	***60***	***276***
Compliance Status: Release Action Outcome				
LEONARDS WHARF	***84 FRONT ST***	***NNW 1/2 - 1 (0.800 mi.)***	***K62***	***292***
Compliance Status: Release Action Outcome				
NO LOCATION AID	***122-132 FRONT ST***	***NNW 1/2 - 1 (0.817 mi.)***	***K63***	***298***
Compliance Status: URAM				
MERIT GAS STATION	***1253 COVE RD***	***SW 1/2 - 1 (0.818 mi.)***	***M64***	***300***
Compliance Status: Release Action Outcome				
HESS CORP	***1253 COVE RD***	***SW 1/2 - 1 (0.818 mi.)***	***M65***	***303***
Compliance Status: Response Action Outcome Not Required				

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NO LOCATION AID	***1253 COVE RD***	***SW 1/2 - 1 (0.818 mi.)***	***M66***	***329***
Compliance Status: Response Action Outcome Not Required				
Compliance Status: Response Action Outcome Not Required				
PLEASANT ST	***66 SPRING ST***	***NW 1/2 - 1 (0.827 mi.)***	***N68***	***341***
Compliance Status: Release Action Outcome				
WATERWAY	***PIER 3***	***NNW 1/2 - 1 (0.829 mi.)***	***P70***	***352***
Compliance Status: Adequately Regulated				
NEW BEDFORD HARBOR	***PIER 3***	***NNW 1/2 - 1 (0.829 mi.)***	***P72***	***357***
Compliance Status: Adequately Regulated				
CRYSTAL ICE	***PIER 3***	***NNW 1/2 - 1 (0.829 mi.)***	***P73***	***358***
Compliance Status: Adequately Regulated				
INTER-CHURCH COUNCIL GREATER N	***412 COUNTY ST***	***NW 1/2 - 1 (0.835 mi.)***	***74***	***360***
Compliance Status: Release Action Outcome				
FV LEGACY	***50 FORT ST***	***ENE 1/2 - 1 (0.838 mi.)***	***O75***	***363***
Compliance Status: Release Action Outcome				
FAIRHAVEN SHIPYARD & MARINA IN	***50 FORT ST***	***ENE 1/2 - 1 (0.838 mi.)***	***O76***	***368***
Compliance Status: Adequately Regulated				
FAIRHAVEN SHIPYARD & MARINA	***50 FORT ST***	***ENE 1/2 - 1 (0.838 mi.)***	***O77***	***370***
Compliance Status: Release Action Outcome				
184 UNION @ PURCHASE	***185-187 UNION ST***	***NW 1/2 - 1 (0.846 mi.)***	***79***	***381***
Compliance Status: Submittal Invalidated by DEP				
PRIMA CARE VISION CENTER	***74 SPRING ST***	***NW 1/2 - 1 (0.847 mi.)***	***N80***	***387***
Compliance Status: Release Action Outcome				
REIDARS MANUFACTURING	***10 WATER ST***	***NE 1/2 - 1 (0.854 mi.)***	***81***	***393***
Compliance Status: Release Action Outcome				
HATHAWAY BRALEY FMR	***14 MAIN ST***	***NE 1/2 - 1 (0.881 mi.)***	***83***	***410***
Compliance Status: Remedy Operation Status				
Compliance Status: Response Action Outcome Not Required				
CUMBERLAND FARMS	***775 BROOK AVE***	***S 1/2 - 1 (0.888 mi.)***	***Q85***	***436***
Compliance Status: Release Action Outcome				
DN KELLEY & SONS SHIPYARD	***32 WATER ST***	***NE 1/2 - 1 (0.890 mi.)***	***R86***	***439***
Compliance Status: Adequately Regulated				
UNION WARF	***WATER / UNION ST***	***NE 1/2 - 1 (0.890 mi.)***	***R88***	***447***
Compliance Status: Release Action Outcome				
NO LOCATION AID	***127 WEST RODNEY FRENCH***	***S 1/2 - 1 (0.898 mi.)***	***89***	***457***
Compliance Status: Release Action Outcome				
Compliance Status: Release Action Outcome				
NO LOCATION AID	***1337 COVE RD***	***SW 1/2 - 1 (0.903 mi.)***	***S90***	***461***
Compliance Status: Release Action Outcome				
BELL ATLANTIC CENTRAL OFFICE	***390 ACHUSNET AVE***	***NNW 1/2 - 1 (0.924 mi.)***	***T92***	***470***
Compliance Status: Release Action Outcome				
ADJACENT TO ELM ST GARAGE & RT	***ELM ST PARCEL 19***	***NNW 1/2 - 1 (0.932 mi.)***	***T93***	***474***
Compliance Status: Release Action Outcome				
NO LOCATION AID	***1 FISH ISLAND RD***	***NNW 1/2 - 1 (0.972 mi.)***	***95***	***481***
Compliance Status: Release Action Outcome				
NO LOCATION AID	***71 MECHANICS LN***	***NW 1 - 2 (1.017 mi.)***	***97***	***493***
Compliance Status: Downgradient Property Status				

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ROOSEVELT JUNIOR HIGH SCHOOL	***120 DENNIS ST***	***S 1 - 2 (1.022 mi.)***	***U99***	***503***
Compliance Status: Release Action Outcome				
Not reported	***725 PLEASANT ST***	***NNW 1 - 2 (1.054 mi.)***	***V101***	***513***
Compliance Status: Release Action Outcome				
NO LOCATION AID	***800 PLEASANT ST***	***NNW 1 - 2 (1.060 mi.)***	***V102***	***519***
Compliance Status: Release Action Outcome				
ST LUKES HOSPITAL	***101 PAGE STREET***	***W 1 - 2 (1.070 mi.)***	***104***	***540***
Compliance Status: Release Action Outcome				
NO LOCATION AID	***67-69 MIDDLE ST***	***NNE 1 - 2 (1.074 mi.)***	***W106***	***551***
Compliance Status: Tier II Release .				
FORMER PARK MOTORS	***67-69 MIDDLE ST***	***NNE 1 - 2 (1.074 mi.)***	***W107***	***560***
Compliance Status: Response Action Outcome Not Required				
Compliance Status: Response Action Outcome Not Required				
BOATING CLUB	***80 MIDDLE ST***	***NNE 1 - 2 (1.098 mi.)***	***W108***	***569***
Compliance Status: Release Action Outcome				
NIEMIEC MARINE	***173 POPES IS***	***N 1 - 2 (1.112 mi.)***	***X110***	***593***
Compliance Status: Tier 1D Release.				
RIVERSIDE COMPLEX FMR	***POPESS IS***	***N 1 - 2 (1.117 mi.)***	***X111***	***594***
Compliance Status: Release Action Outcome				
NO LOCATION AID	***POPES IS***	***N 1 - 2 (1.117 mi.)***	***X112***	***596***
Compliance Status: Adequately Regulated				
Compliance Status: Adequately Regulated				

**Additional key fields are available in the Map Findings section*

State and tribal leaking storage tank lists

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 01/15/2010 has revealed that there are 4 LUST sites within approximately 0.625 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GETTY	***56 POTOMSKA ST***	***WSW 1/8 - 1/4 (0.218 mi.)***	***D16***	***35***
Facility Status: Response Action Outcome				
SOUTHEAST TRANSIT AUTHORITY	***75 POTOMSKA ST***	***WSW 1/4 - 1/2 (0.280 mi.)***	***20***	***49***
Facility Status: Response Action Outcome				
ACUSNET AVE SCHOOL FMR	***266 PURCHASE ST***	***W 1/4 - 1/2 (0.419 mi.)***	***23***	***69***
Facility Status: Response Action Outcome				
BERKSHIRE HATHAWAY INC	***97 COVE ST***	***S 1/2 - 1 (0.571 mi.)***	***36***	***153***
Facility Status: Response Action Outcome				

EXECUTIVE SUMMARY

LAST: The Leaking Aboveground Storage Tanks database

A review of the LAST list, as provided by EDR, and dated 01/15/2010 has revealed that there are 3 LAST sites within approximately 0.625 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SPRAGUE ENERGY CORP	***30 PINE ST***	***NW 1/4 - 1/2 (0.479 mi.)***	***F27***	***86***
Facility Status: Response Action Outcome				
GLOBAL OIL FACILITY	***30 PINE ST***	***NW 1/4 - 1/2 (0.479 mi.)***	***F29***	***95***
Facility Status: Response Action Outcome				
NSTAR ELECTRIC GAS	***180 MACARTHUR DR***	***NNW 1/2 - 1 (0.605 mi.)***	***H41***	***195***
Facility Status: Response Action Outcome Not Required				

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 12/04/2009 has revealed that there are 2 UST sites within approximately 0.375 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
YELLOWBIRD MOTOR LINES INC	***85 CONWAY ST***	***NW 1/8 - 1/4 (0.204 mi.)***	***C13***	***31***
GETTY	***56 POTOMSKA ST***	***WSW 1/8 - 1/4 (0.218 mi.)***	***D16***	***35***

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 01/15/2010 has revealed that there are 2 INST CONTROL sites within approximately 0.625 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LOT 4	***BLACKMER ST***	***SSW 1/4 - 1/2 (0.307 mi.)***	***E21***	***54***
BERKSHIRE HATHAWAY INC	***97 COVE ST***	***S 1/2 - 1 (0.571 mi.)***	***36***	***153***

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: The EPA's listing of Brownfields properites addressed by Cooperative Agreement Recipients and Brownfields properties addressed by Targeted Brownfields Assessments

A review of the US BROWNFIELDS list, as provided by EDR, and dated 10/01/2009 has revealed that there

is 1 US BROWNFIELDS site within approximately 0.625 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
STANDARD TIMES FIELD LOT 9G	FRONT STREET	SSW 1/4 - 1/2 (0.334 mi.)	E22	66

Records of Emergency Release Reports

SPILLS: This historical spills list includes sudden releases reported to DEP from the mid-1980's through September 30, 1993. The list has been archived and will not undergo further updates. The source is the Department of Environmental Protection's Spills Database.

A review of the SPILLS list, as provided by EDR, and dated 09/30/1993 has revealed that there are 2 SPILLS sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NORTHERN WIND	33 WRIGHT ST	WSW 0 - 1/8 (0.018 mi.)	A1	7
TRI ALLEGO FISH PLANT	62 HASSEY ST	N 0 - 1/8 (0.121 mi.)	9	18

RELEASE: MA Release Tracking Database.

A review of the RELEASE list, as provided by EDR, and dated 01/15/2010 has revealed that there are 98 RELEASE sites within approximately 1.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NORTHERN WIND SEAFOOD	***14 HASSEY ST***	***N 0 - 1/8 (0.037 mi.)***	***A2***	***7***
Facility Status: Response Action Outcome				
NEAR SOUTH TERMINAL	***16 HASSEY ST***	***N 0 - 1/8 (0.042 mi.)***	***3***	***11***
NO LOCATION AID	***15 SOUTH ST***	***WNW 0 - 1/8 (0.117 mi.)***	***B8***	***15***
Facility Status: Response Action Outcome				
PIER FISH COMPANY	***68 CONWAY ST***	***NW 1/8 - 1/4 (0.195 mi.)***	***C12***	***27***
Facility Status: Response Action Outcome				
GETTY	***56 POTOMSKA ST***	***WSW 1/8 - 1/4 (0.218 mi.)***	***D16***	***35***
Facility Status: Response Action Outcome				
ATLANTIC COAST FISHERIES	***CAPE ST***	***NNW 1/8 - 1/4 (0.219 mi.)***	***C17***	***42***
Facility Status: Response Action Outcome				
SRTA	***65 POTOMSKA ST***	***WSW 1/8 - 1/4 (0.248 mi.)***	***D19***	***47***
Facility Status: Response Action Outcome Not Required				
SOUTHEAST TRANSIT AUTHORITY	***75 POTOMSKA ST***	***WSW 1/4 - 1/2 (0.280 mi.)***	***20***	***49***
Facility Status: Response Action Outcome				
LOT 4	***BLACKMER ST***	***SSW 1/4 - 1/2 (0.307 mi.)***	***E21***	***54***
Facility Status: Response Action Outcome				
ACUSNET AVE SCHOOL FMR	***266 PURCHASE ST***	***W 1/4 - 1/2 (0.419 mi.)***	***23***	***69***
Facility Status: Response Action Outcome				
DARN-IT, INC. LOADING DOCK	***84 GIFFORD ST***	***SSW 1/4 - 1/2 (0.435 mi.)***	***24***	***73***
Facility Status: Response Action Outcome				
Facility Status: Response Action Outcome				
STANDARD TAXI	***241 COUNTY ST***	***W 1/4 - 1/2 (0.453 mi.)***	***25***	***79***
ATLANTIC ELEVATOR & GARAGE	***128 GRINNELL ST***	***W 1/4 - 1/2 (0.467 mi.)***	***26***	***83***
Facility Status: Response Action Outcome				

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SPRAGUE ENERGY CORP	***30 PINE ST***	***NW 1/4 - 1/2 (0.479 mi.)***	***F27***	***86***
Facility Status: Response Action Outcome				
SPRAGUE ENERGY	***30 PINE ST***	***NW 1/4 - 1/2 (0.479 mi.)***	***F28***	***92***
Facility Status: Response Action Outcome				
GLOBAL OIL FACILITY	***30 PINE ST***	***NW 1/4 - 1/2 (0.479 mi.)***	***F29***	***95***
Facility Status: Response Action Outcome				
Facility Status: Response Action Outcome				
MORSE CUTTING TOOLS	***163 PLEASANT STREET***	***WNW 1/2 - 1 (0.515 mi.)***	***G31***	***103***
MORSE CUTTING TOOLS FMR	***163 PLEASANT ST***	***WNW 1/2 - 1 (0.515 mi.)***	***G32***	***128***
ALLEY WAY OF BILDING	***21 COVE ST***	***SSE 1/2 - 1 (0.534 mi.)***	***34***	***136***
Facility Status: Response Action Outcome				
DARTMOUTH FINISHING	***45 COVE STREET***	***S 1/2 - 1 (0.555 mi.)***	***35***	***139***
Facility Status: Response Action Outcome				
BERKSHIRE HATHAWAY INC	***97 COVE ST***	***S 1/2 - 1 (0.571 mi.)***	***36***	***153***
Facility Status: Response Action Outcome				
NO LOCATION AID	***180 MACARTHUR DR***	***NNW 1/2 - 1 (0.605 mi.)***	***H37***	***165***
Facility Status: Response Action Outcome				
NEW BEDFORD OCEANARIUM	***180 MACARTHUR DR***	***NNW 1/2 - 1 (0.605 mi.)***	***H39***	***178***
NSTAR ELECTRIC GAS	***180 MACARTHUR DR***	***NNW 1/2 - 1 (0.605 mi.)***	***H41***	***195***
Facility Status: Response Action Outcome Not Required				
CANNON ST STATION	***180 MACARTHUR DR***	***NNW 1/2 - 1 (0.605 mi.)***	***H42***	***204***
Facility Status: Response Action Outcome				
COMM ELECTRIC POWER PLANT FMR	***180 MACARTHUR DR***	***NNW 1/2 - 1 (0.605 mi.)***	***H43***	***209***
Facility Status: Response Action Outcome				
SOUTH TRANSFORMER YARD	***180 MACARTHUR DR***	***NNW 1/2 - 1 (0.605 mi.)***	***H44***	***212***
Facility Status: Response Action Outcome				
Facility Status: Response Action Outcome				
Not reported	***545 PURCHASE ST***	***NW 1/2 - 1 (0.657 mi.)***	***45***	***218***
Facility Status: Response Action Outcome				
NO LOCATION AID	***104 WINSOR ST***	***SW 1/2 - 1 (0.689 mi.)***	***46***	***221***
TEXIERA RESIDENCE	***138-140 ROCKLAND ST***	***WSW 1/2 - 1 (0.703 mi.)***	***47***	***224***
Facility Status: Response Action Outcome				
NO LOCATION AID	***51 CLEVELAND ST***	***SSE 1/2 - 1 (0.705 mi.)***	***48***	***228***
Facility Status: Response Action Outcome				
MAP 46 LOTS 160 & 163	***WALNUT / PLEASANT ST***	***NW 1/2 - 1 (0.726 mi.)***	***49***	***231***
Facility Status: Unclassified Waste Site				
DOYLE SQ SERVICE STATION	***20 DARTMOUTH ST***	***W 1/2 - 1 (0.730 mi.)***	***I50***	***233***
GROTAS MOTORS	***1163 COVE RD***	***SSW 1/2 - 1 (0.730 mi.)***	***51***	***235***
METRO PIZZA	***32 DARTMOUTH ST***	***W 1/2 - 1 (0.739 mi.)***	***I52***	***238***
Facility Status: Response Action Outcome				
Not reported	***STATE PIER***	***N 1/2 - 1 (0.744 mi.)***	***J53***	***242***
NEW BEDFORD HARBOR	***ACUSHNET ESTUARY***	***NNW 1/2 - 1 (0.744 mi.)***	***J54***	***247***
FINICKY PET FOOD INC	***16 FRONT ST***	***NNW 1/2 - 1 (0.769 mi.)***	***K55***	***249***
Facility Status: Response Action Outcome				
DELKEN CO	***16 FRONT ST***	***NNW 1/2 - 1 (0.769 mi.)***	***K56***	***253***
Facility Status: Response Action Outcome				
NBPD PARKING LOT	***25 SPRING ST***	***NW 1/2 - 1 (0.776 mi.)***	***57***	***261***
Facility Status: Response Action Outcome				

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MOTT STREET PARK	***99 CLEVELAND ST***	***SSE 1/2 - 1 (0.780 mi.)***	***58***	***263***
Facility Status: Response Action Outcome				
PROPERTY	***486 SOUTH ORCHARD ST***	***WSW 1/2 - 1 (0.781 mi.)***	***L59***	***265***
Facility Status: Response Action Outcome				
REAR OF PROPERTY	***89 WEST RODNEY FRENCH B***	***S 1/2 - 1 (0.783 mi.)***	***60***	***276***
Facility Status: Response Action Outcome				
GOODYEAR TIRE & RUBBER	***545 ORCHARD ST***	***WSW 1/2 - 1 (0.793 mi.)***	***L61***	***278***
Facility Status: Response Action Outcome				
LEONARDS WHARF	***84 FRONT ST***	***NNW 1/2 - 1 (0.800 mi.)***	***K62***	***292***
Facility Status: Response Action Outcome				
NO LOCATION AID	***122-132 FRONT ST***	***NNW 1/2 - 1 (0.817 mi.)***	***K63***	***298***
MERIT GAS STATION	***1253 COVE RD***	***SW 1/2 - 1 (0.818 mi.)***	***M64***	***300***
Facility Status: Response Action Outcome				
HESS CORP	***1253 COVE RD***	***SW 1/2 - 1 (0.818 mi.)***	***M65***	***303***
Facility Status: Response Action Outcome Not Required				
NO LOCATION AID	***1253 COVE RD***	***SW 1/2 - 1 (0.818 mi.)***	***M66***	***329***
Facility Status: Response Action Outcome Not Required				
Facility Status: Response Action Outcome Not Required				
HESS 21504	***1253 COVE RD***	***SW 1/2 - 1 (0.818 mi.)***	***M67***	***336***
Facility Status: Response Action Outcome				
PLEASANT ST	***66 SPRING ST***	***NW 1/2 - 1 (0.827 mi.)***	***N68***	***341***
Facility Status: Response Action Outcome				
JUDGE RESIDENCE	***41 FORT ST***	***ENE 1/2 - 1 (0.829 mi.)***	***O69***	***347***
Facility Status: Response Action Outcome				
WATERWAY	***PIER 3***	***NNW 1/2 - 1 (0.829 mi.)***	***P70***	***352***
SEA FUELS	***PIER 3***	***NNW 1/2 - 1 (0.829 mi.)***	***P71***	***354***
Facility Status: Response Action Outcome				
NEW BEDFORD HARBOR	***PIER 3***	***NNW 1/2 - 1 (0.829 mi.)***	***P72***	***357***
CRYSTAL ICE	***PIER 3***	***NNW 1/2 - 1 (0.829 mi.)***	***P73***	***358***
INTER-CHURCH COUNCIL GREATER N	***412 COUNTY ST***	***NW 1/2 - 1 (0.835 mi.)***	***74***	***360***
Facility Status: Response Action Outcome				
FV LEGACY	***50 FORT ST***	***ENE 1/2 - 1 (0.838 mi.)***	***O75***	***363***
Facility Status: Response Action Outcome				
FAIRHAVEN SHIPYARD & MARINA IN	***50 FORT ST***	***ENE 1/2 - 1 (0.838 mi.)***	***O76***	***368***
FAIRHAVEN SHIPYARD & MARINA	***50 FORT ST***	***ENE 1/2 - 1 (0.838 mi.)***	***O77***	***370***
Facility Status: Response Action Outcome				
NO LOCATION AID	***343 ACUSHNET AVE***	***NNW 1/2 - 1 (0.841 mi.)***	***78***	***376***
184 UNION @ PURCHASE	***185-187 UNION ST***	***NW 1/2 - 1 (0.846 mi.)***	***79***	***381***
PRIMA CARE VISION CENTER	***74 SPRING ST***	***NW 1/2 - 1 (0.847 mi.)***	***N80***	***387***
Facility Status: Response Action Outcome				
REIDARS MANUFACTURING	***10 WATER ST***	***NE 1/2 - 1 (0.854 mi.)***	***81***	***393***
Facility Status: Response Action Outcome				
MAY INSTITUTE	***9 SOUTH 6TH ST***	***NW 1/2 - 1 (0.860 mi.)***	***N82***	***405***
Facility Status: Response Action Outcome				
HATHAWAY BRALEY FMR	***14 MAIN ST***	***NE 1/2 - 1 (0.881 mi.)***	***83***	***410***
Facility Status: Response Action Outcome Not Required				
Facility Status: Response Action Outcome Not Required				
NO LOCATION AID	***775 BROCK AVE***	***S 1/2 - 1 (0.888 mi.)***	***Q84***	***432***
Facility Status: Response Action Outcome				

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CUMBERLAND FARMS	***775 BROOK AVE***	***S 1/2 - 1 (0.888 mi.)***	***Q85***	***436***
Facility Status: Response Action Outcome				
DN KELLEY & SONS SHIPYARD	***32 WATER ST***	***NE 1/2 - 1 (0.890 mi.)***	***R86***	***439***
DN KELLEY & SON	***32 WATER ST***	***NE 1/2 - 1 (0.890 mi.)***	***R87***	***441***
Facility Status: DEP No Further Action				
UNION WARF	***WATER / UNION ST***	***NE 1/2 - 1 (0.890 mi.)***	***R88***	***447***
Facility Status: Response Action Outcome				
NO LOCATION AID	***127 WEST RODNEY FRENCH***	***S 1/2 - 1 (0.898 mi.)***	***89***	***457***
Facility Status: Response Action Outcome				
Facility Status: Response Action Outcome				
NO LOCATION AID	***1337 COVE RD***	***SW 1/2 - 1 (0.903 mi.)***	***S90***	***461***
Facility Status: Response Action Outcome				
NO LOCATION AID	***1339 COVE RD***	***SW 1/2 - 1 (0.905 mi.)***	***S91***	***465***
Facility Status: Response Action Outcome				
BELL ATLANTIC CENTRAL OFFICE	***390 ACHUSNET AVE***	***NNW 1/2 - 1 (0.924 mi.)***	***T92***	***470***
Facility Status: Response Action Outcome				
ADJACENT TO ELM ST GARAGE & RT	***ELM ST PARCEL 19***	***NNW 1/2 - 1 (0.932 mi.)***	***T93***	***474***
Facility Status: Response Action Outcome				
NO LOCATION AID	***281 UNION ST***	***NW 1/2 - 1 (0.944 mi.)***	***94***	***477***
Facility Status: Response Action Outcome				
NO LOCATION AID	***1 FISH ISLAND RD***	***NNW 1/2 - 1 (0.972 mi.)***	***95***	***481***
Facility Status: Response Action Outcome				
ROOSEVELT JR HIGH SCHOOL	***ROOSEVELT AVE***	***SSE 1/2 - 1 (0.995 mi.)***	***U96***	***489***
Facility Status: Response Action Outcome				
NO LOCATION AID	***71 MECHANICS LN***	***NW 1 - 2 (1.017 mi.)***	***97***	***493***
Facility Status: Downgradient Property Status				
CJ GALLEY PILOT HOUSE	***1397-1405 COVE RD***	***SW 1 - 2 (1.018 mi.)***	***98***	***500***
Facility Status: Response Action Outcome				
ROOSEVELT JUNIOR HIGH SCHOOL	***120 DENNIS ST***	***S 1 - 2 (1.022 mi.)***	***U99***	***503***
Facility Status: Response Action Outcome				
NO LOCATION AID	***88 GREEN ST***	***NE 1 - 2 (1.026 mi.)***	***100***	***509***
Facility Status: Response Action Outcome				
Not reported	***725 PLEASANT ST***	***NNW 1 - 2 (1.054 mi.)***	***V101***	***513***
Facility Status: Response Action Outcome				
NO LOCATION AID	***800 PLEASANT ST***	***NNW 1 - 2 (1.060 mi.)***	***V102***	***519***
Facility Status: Response Action Outcome				
CUMBERLAND FARMS	***68 MAIN ST***	***NNE 1 - 2 (1.064 mi.)***	***103***	***523***
Facility Status: Response Action Outcome				
Facility Status: Response Action Outcome				
ST LUKES HOSPITAL	***101 PAGE STREET***	***W 1 - 2 (1.070 mi.)***	***104***	***540***
Facility Status: Response Action Outcome				
PARK MOTORS	***67 MIDDLE ST***	***NNE 1 - 2 (1.074 mi.)***	***W105***	***548***
Facility Status: Response Action Outcome				
NO LOCATION AID	***67-69 MIDDLE ST***	***NNE 1 - 2 (1.074 mi.)***	***W106***	***551***
FORMER PARK MOTORS	***67-69 MIDDLE ST***	***NNE 1 - 2 (1.074 mi.)***	***W107***	***560***
Facility Status: Response Action Outcome Not Required				
Facility Status: Response Action Outcome Not Required				

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BOATING CLUB	***80 MIDDLE ST***	***NNE 1 - 2 (1.098 mi.)***	***W108***	***569***
Facility Status: Response Action Outcome				
GETTY	***30 ROCKDALE AVE***	***SW 1 - 2 (1.107 mi.)***	***109***	***575***
Facility Status: Response Action Outcome				
NIEMIEC MARINE	***173 POPES IS***	***N 1 - 2 (1.112 mi.)***	***X110***	***593***
RIVERSIDE COMPLEX FMR	***POPESS IS***	***N 1 - 2 (1.117 mi.)***	***X111***	***594***
Facility Status: Response Action Outcome				
NO LOCATION AID	***POPES IS***	***N 1 - 2 (1.117 mi.)***	***X112***	***596***
Facility Status: DEP No Further Action				
M&P AUTO SERVICE	***364 DARTMOUTH ST***	***WSW 1 - 2 (1.120 mi.)***	***113***	***603***
Facility Status: Response Action Outcome				
Facility Status: Response Action Outcome Not Required				
CUMBERLAND FARMS	***486 COUNTY ST***	***NW 1 - 2 (1.121 mi.)***	***Y114***	***615***
Facility Status: Downgradient Property Status				
GULF STATION	***486 COUNTY ST***	***NW 1 - 2 (1.121 mi.)***	***Y115***	***619***
Facility Status: Response Action Outcome				

Other Ascertainable Records

RCRA-NonGen: 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 list, as provided by EDR, and dated 01/13/2010 has revealed that there are 2 RCRA-NonGen sites within approximately 0.375 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HARRIET TRANSPORT INC	***63 CONWAY ST***	***NNW 1/8 - 1/4 (0.193 mi.)***	***C11***	***25***
VARIAN ASSOCIATES LEXINGTON VA	***114 CONWAY ST***	***NW 1/8 - 1/4 (0.221 mi.)***	***18***	***45***

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 10/19/2009 has revealed that there are 2 FINDS sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FOLEY FISH CO	77 WRIGHT ST	WSW 0 - 1/8 (0.057 mi.)	A4	12
BRODEUR C P INC	***80 WRIGHT ST***	***WSW 0 - 1/8 (0.060 mi.)***	***A5***	***13***

EXECUTIVE SUMMARY

EDR PROPRIETARY RECORDS

EDR Proprietary Records

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.

A review of the Manufactured Gas Plants list, as provided by EDR, has revealed that there are 3 Manufactured Gas Plants sites within approximately 1.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NEW BEDFORD GAS AND EDISON LIG	S WATER STREET	NW 1/4 - 1/2 (0.485 mi.)	F30	103
NEW BEDFORD GAS AND EDISON LIG	1ST STREET AND COFFIN	NW 1/2 - 1 (0.530 mi.)	33	136
COMMONWEALTH ELECTRIC	180 MACARTHUR DRIVE	NNW 1/2 - 1 (0.605 mi.)	H38	178

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
GASOLINE TANKER EAST OF RTE 240	HWS,RELEASE
BEHIND MOTEL	HWS,RELEASE
POLE #132/35	HWS,RELEASE
NEAR SEAPORT INN	HWS,RELEASE
MARSH ISLAND	CERCLIS-NFRAP,HWS,RELEASE
PROPERTY	HWS,RELEASE
EXIT 4	HWS,RELEASE
PROPERTY	HWS,RELEASE
NEAR PURCHASE ST EXIT	HWS,RELEASE
NEAR INTERSECTION OF RTE. 6	HWS,RELEASE
ELM ST	HWS,RELEASE
SOIL BORING LOCATION #13	HWS,RELEASE
ACUSHNET RIVER	HWS,RELEASE
BETWEEN EXIT 14 & 15	HWS,RELEASE
STEAMSHIP DOCK	HWS,RELEASE
AT ONEIDA ST	HWS,RELEASE
FISH ISLAND	CERCLIS-NFRAP,HWS,RELEASE
@ COGGESHALL	HWS,RELEASE
POPE'S ISLAND	CERCLIS-NFRAP
NEW BEDFORD-FAIRHAVEN BRIDGE	RELEASE,LAST
SULLIVANS LEDGE	LF
OHARA CHEVROLET FMR	LUST,RELEASE
ROADWAY/ACCIDENT	MA SPILLS
ROADWAY	MA SPILLS
FISH ISLAND	MA SPILLS
KINGS HWY PLAZA	MA SPILLS

OVERVIEW MAP - 2707507.2s

- 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 1/2 1 2 Miles

- Indian Reservations BIA
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- 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: 4 Wright Street	CLIENT: APEX Companies LLC
ADDRESS: 4 Wright Street New Bedford MA 02740	CONTACT: Mary Bruno
LAT/LONG: 41.6244 / 70.9162	INQUIRY #: 2707507.2s
	DATE: February 24, 2010 3:12 pm

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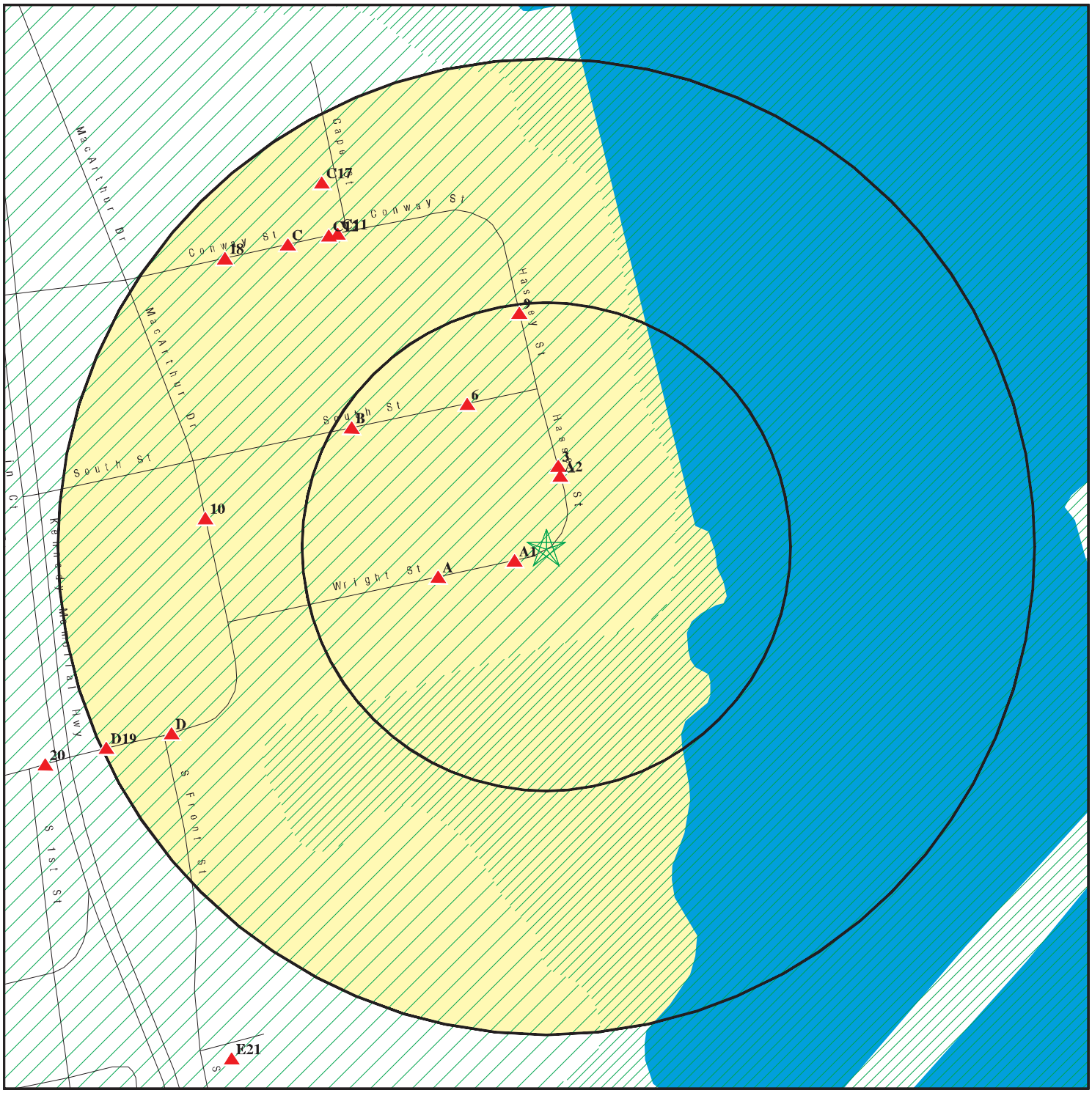
DETAIL MAP - 2707507.2s



- 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

0 1/16 1/8 1/4 Miles

- Indian Reservations BIA
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- 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: 4 Wright Street	CLIENT: APEX Companies LLC
ADDRESS: 4 Wright Street New Bedford MA 02740	CONTACT: Mary Bruno
LAT/LONG: 41.6244 / 70.9162	INQUIRY #: 2707507.2s DATE: February 24, 2010 3:13 pm

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MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL		1.125	0	0	0	0	0	0
Proposed NPL		1.125	0	0	0	0	0	0
NPL LIENS		0.125	0	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL		1.125	0	0	0	0	0	0
Federal CERCLIS list								
CERCLIS		0.625	0	0	0	1	NR	1
FEDERAL FACILITY		1.125	0	0	0	0	0	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP		0.625	0	0	0	2	NR	2
Federal RCRA CORRACTS facilities list								
CORRACTS		1.125	0	0	0	0	0	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF		0.625	0	0	0	0	NR	0
Federal RCRA generators list								
RCRA-LQG		0.375	0	0	0	NR	NR	0
RCRA-SQG		0.375	0	0	0	NR	NR	0
RCRA-CESQG		0.375	1	2	0	NR	NR	3
Federal institutional controls / engineering controls registries								
US ENG CONTROLS		0.625	0	0	0	0	NR	0
US INST CONTROL		0.625	0	0	0	0	NR	0
Federal ERNS list								
ERNS		0.125	2	NR	NR	NR	NR	2
State- and tribal - equivalent CERCLIS								
SHWS		1.125	3	3	6	45	11	68
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF		0.625	0	0	0	0	NR	0
State and tribal leaking storage tank lists								
LUST		0.625	0	1	2	1	NR	4
LAST		0.625	0	0	2	1	NR	3
INDIAN LUST		0.625	0	0	0	0	NR	0
State and tribal registered storage tank lists								
UST		0.375	0	2	0	NR	NR	2

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST		0.375	0	0	0	NR	NR	0
INDIAN UST		0.375	0	0	0	NR	NR	0
FEMA UST		0.375	0	0	0	NR	NR	0
State and tribal institutional control / engineering control registries								
INST CONTROL		0.625	0	0	1	1	NR	2
State and tribal voluntary cleanup sites								
INDIAN VCP		0.625	0	0	0	0	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS		0.625	0	0	1	0	NR	1
Local Lists of Landfill / Solid Waste Disposal Sites								
ODI		0.625	0	0	0	0	NR	0
DEBRIS REGION 9		0.625	0	0	0	0	NR	0
INDIAN ODI		0.625	0	0	0	0	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL		0.125	0	NR	NR	NR	NR	0
US HIST CDL		0.125	0	NR	NR	NR	NR	0
Local Land Records								
LIENS 2		0.125	0	NR	NR	NR	NR	0
LUCIS		0.625	0	0	0	0	NR	0
Records of Emergency Release Reports								
HMIRS		0.125	0	NR	NR	NR	NR	0
SPILLS		0.125	2	NR	NR	NR	NR	2
RELEASE		1.125	3	4	9	63	19	98
Other Ascertainable Records								
RCRA-NonGen		0.375	0	2	0	NR	NR	2
DOT OPS		0.125	0	NR	NR	NR	NR	0
DOD		1.125	0	0	0	0	0	0
FUDS		1.125	0	0	0	0	0	0
CONSENT		1.125	0	0	0	0	0	0
ROD		1.125	0	0	0	0	0	0
UMTRA		0.625	0	0	0	0	NR	0
MINES		0.375	0	0	0	NR	NR	0
TRIS		0.125	0	NR	NR	NR	NR	0
TSCA		0.125	0	NR	NR	NR	NR	0
FTTS		0.125	0	NR	NR	NR	NR	0
HIST FTTS		0.125	0	NR	NR	NR	NR	0
SSTS		0.125	0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
ICIS		0.125	0	NR	NR	NR	NR	0
PADS		0.125	0	NR	NR	NR	NR	0
MLTS		0.125	0	NR	NR	NR	NR	0
RADINFO		0.125	0	NR	NR	NR	NR	0
FINDS		0.125	2	NR	NR	NR	NR	2
RAATS		0.125	0	NR	NR	NR	NR	0
DRYCLEANERS		0.375	0	0	0	NR	NR	0
ENF		0.125	0	NR	NR	NR	NR	0
AIRS		0.125	0	NR	NR	NR	NR	0
LEAD		0.125	0	NR	NR	NR	NR	0
INDIAN RESERV		1.125	0	0	0	0	0	0
SCRD DRYCLEANERS		0.625	0	0	0	0	NR	0
COAL ASH DOE		0.125	0	NR	NR	NR	NR	0
PCB TRANSFORMER		0.125	0	NR	NR	NR	NR	0
GWDP		0.125	0	NR	NR	NR	NR	0
COAL ASH EPA		0.625	0	0	0	0	NR	0
FINANCIAL ASSURANCE		0.125	0	NR	NR	NR	NR	0
EDR PROPRIETARY RECORDS								
EDR Proprietary Records								
Manufactured Gas Plants		1.125	0	0	1	2	0	3

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 WSW < 1/8 0.018 mi. 94 ft. | **NORTHERN WIND 33 WRIGHT ST NEW BEDFORD, MA** | **SPILLS** | **S101039367 N/A**

Site 1 of 4 in cluster A

Relative: Equal

Actual: 0 ft.

MA Spills:

Facility ID:	0000	Spill ID:	S91-0565
Staff Lead:	BRENNAN, S	Date Entered:	Not reported
Last Entered:	19911002	First Response:	19910913
Spill Date:	19910913	Spill Time:	Not reported
Report Date:	19910913	Report Time:	Not reported
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	------	Contam Soil:	Not reported
Env Impact:	Not reported	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):	----------
Source:	----------	Other Source:	Not reported
Incident:	----------	Other Incdnt:	Not reported
Cleanup Type:	---	Contractor:	NOT USED
Referral:	NO	LUST Elig:	---
Report Prep:	Not reported	Category:	Not reported
Notifier:	BILL VERODONE, EPA, LEXINGTON		
Notif Tel:	Not reported		
Days/Close:	1		

Facility ID:	0000	Spill ID:	S93-0642
Staff Lead:	PINAUD, L	Date Entered:	Not reported
Last Entered:	19930921	First Response:	19930916
Spill Date:	Not reported	Spill Time:	Not reported
Report Date:	19930916	Report Time:	03:00PM
Case Closed:	YES	Mat Type:	NEITHER
Virgin Waste:	WASTE	Contam Soil:	Not reported
Env Impact:	SOIL	Other Impact:	Not reported
Material:	OTHER MATERIAL -->	Other Material:	BLEACH & FISH GURRIE
Qty Reported:	UNKNOWN	Qty Actual:	UNKNOWN
Qty Reported:	----------	Qty Actual:	----------
CAS No:	Not reported	PCB Lev (ppm):	NONE
Source:	OTHER SOURCE >	Other Source:	DUMPING
Incident:	DUMPING	Other Incdnt:	Not reported
Cleanup Type:	---	Contractor:	NOT USED
Referral:	WPC	LUST Elig:	NO
Report Prep:	Not reported	Category:	Not reported
Notifier:	ALFRED PAMPLOMA		
Notif Tel:	Not reported		
Days/Close:	0		

A2 North < 1/8 0.037 mi. 196 ft. | **NORTHERN WIND SEAFOOD 14 HASSEY ST NEW BEDFORD, MA** | **SHWS RELEASE** | **S103546739 N/A**

Site 2 of 4 in cluster A

Relative: Equal

Actual: 0 ft.

SHWS:

Facility ID:	4-0014460
Release Town:	NEW BEDFORD
Notification Date:	01/13/1999
Category:	TWO HR

NORTHERN WIND SEAFOOD (Continued) **S103546739**

Associated ID: Not reported
Compliance Status: **Release Action Outcome**
Status Date: 03/31/1999
Phase: Not reported
Response Action Outcome Class: A2
Oil Or Haz Material: Oil

Chemical:
Chemical: DIESEL FUEL
Quantity: 50 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: TANKER

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 01/31/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/31/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 03/31/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDD1U
Action Date: 01/25/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/21/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 01/21/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 01/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

NORTHERN WIND SEAFOOD (Continued) **S103546739**

Action Type: Release
Action Stat: REPORT
Action Date: 01/13/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 4-0014460
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 01/13/1999
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 03/31/1999
Phase: Not reported
Rspns Actn Outcome Class: A2
Oil / Haz Material Type: Oil

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 01/31/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/31/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 03/31/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDD1U
Action Date: 01/25/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/21/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 01/21/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA

NORTHERN WIND SEAFOOD (Continued) **S103546739**

Action Stat: FOLOFF
Action Date: 01/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 01/13/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: DIESEL FUEL
Quantity: 50 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: TANKER

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 01/31/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/31/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 03/31/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDD1U
Action Date: 01/25/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/21/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 01/21/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

NORTHERN WIND SEAFOOD (Continued) **S103546739**

Action Type:	RLFA
Action Stat:	FOLOFF
Action Date:	01/15/1999
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Release
Action Stat:	REPORT
Action Date:	01/13/1999
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

---

3 **NEAR SOUTH TERMINAL** **SHWS** **S108117400**
North **16 HASSEY ST** **RELEASE** **N/A**
< 1/8 **NEW BEDFORD, MA**
0.042 mi.
221 ft.

Relative:
Equal

Actual:
0 ft.

SHWS:

Facility ID:	4-0017572
Release Town:	NEW BEDFORD
Notification Date:	01/06/2003
Category:	TWO HR
Associated ID:	Not reported
Compliance Status:	**Adequately Regulated**
Status Date:	01/06/2003
Phase:	Not reported
Response Action Outcome Class:	Not reported
Oil Or Haz Material:	Not reported

Chemical:

Chemical:	UNKNOWN OIL SHEEN
Quantity:	Not reported

Location:

Location Type:	WATERBODY

Source:

Source Type:	UNKNOWN

Action:

Action Type:	Release
Action Stat:	REPORT
Action Date:	01/06/2003
Response Action Outcome:	Not reported

Action Type:	Response Action Outcome Not Required
Action Stat:	USCG
Action Date:	01/06/2003
Response Action Outcome:	Not reported

Release:

Facility ID:	4-0017572
Primary ID:	Not reported
Official City:	NEW BEDFORD
Notification:	01/06/2003
Category:	TWO HR

NEAR SOUTH TERMINAL (Continued) **S108117400**

Facility Status: ADQREG
Status Date: 01/06/2003
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: Release
Action Stat: REPORT
Action Date: 01/06/2003
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: USCG
Action Date: 01/06/2003
Response Action Outcome: Not reported

Chemical:
Chemical: UNKNOWN OIL SHEEN
Quantity: Not reported

Location:
Location Type: WATERBODY

Source:
Source Type: UNKNOWN

Action:
Action Type: Release
Action Stat: REPORT
Action Date: 01/06/2003
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: USCG
Action Date: 01/06/2003
Response Action Outcome: Not reported

A4 **FOLEY FISH CO** **FINDS** **1009455853**
WSW **77 WRIGHT ST** **N/A**
< 1/8 **NEW BEDFORD, MA 02740**
0.057 mi.
303 ft. **Site 3 of 4 in cluster A**

Relative:
Equal

Actual:
0 ft.

FINDS:

Registry ID: 110024839344

Environmental Interest/Information System
MA-EPICS - Massachussetts Environmental Protection Integrated Computer System

A5 WSW < 1/8 0.060 mi. 318 ft. | **BRODEUR C P INC**
80 WRIGHT ST
NEW BEDFORD, MA 02740 | **RCRA-CESQG FINDS MANIFEST** | **1004717016 MAD981891930**

Site 4 of 4 in cluster A

Relative: Equal

Actual: 0 ft.

RCRA-CESQG:

Date form received by agency:	10/20/1986
Facility name:	BRODEUR C P INC
Facility address:	80 WRIGHT ST NEW BEDFORD, MA 02740
EPA ID:	MAD981891930
Contact:	CLEMENT-P BRODEUR
Contact address:	80 WRIGHT ST NEW BEDFORD, MA 02740
Contact country:	US
Contact telephone:	(508) 993-0334
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:	BRODEUR C P INC
Owner/operator address:	80 WRIGHT ST NEW BEDFORD, MA 02740
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:	CLEMENT P BRODEUR
Owner/operator address:	80 WRIGHT ST NEW BEDFORD, MA 02740
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

BRODEUR C P INC (Continued) **1004717016**

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
Off-site waste receiver:	Commercial status unknown

Hazardous Waste Summary:

Waste code: D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

FINDS:

Registry ID: 110003471804

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

MANIFEST:

GEN Cert Date:	5/18/1994
Transporter Recpt Date:	Not reported
Number Of Containers:	0
Container Type:	Not reported
Waste Code1:	D001
Waste Code2:	Not reported
Waste Code3:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDF Name:	CHEM PAK CORP
TSDF ID:	RID084802842
TSDF Date:	Not reported

BRODEUR C P INC (Continued) **1004717016**

Date Imported:	9/11/1995
Transporter 2 Name:	Not reported
Transporter 2 ID:	Not reported
Manifest Docket Number:	Not reported
Waste Description:	Not reported
Quantity:	Not reported
WT/Vol Units:	Not reported
Item Number:	Not reported
Transporter Name:	Not reported
Transporter EPA ID:	Not reported
GEN Cert Date:	Not reported
Transporter Recpt Date:	Not reported
Transporter 2 Recpt Date:	Not reported
TSDF Recpt Date:	Not reported
EPA ID:	Not reported
Transporter 2 ID:	Not reported

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6 NNW < 1/8 0.084 mi. 442 ft. — **CAPE VERDE WAREHOUSE-10 SOUTH STREET** — **ERNS** — **99624140**

CAPE VERDE WAREHOUSE-10 SOUTH STREET — **N/A**

NEW BEDFORD, MA 02744

Relative: Higher

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

Actual: 3 ft.

B7 WNW < 1/8 0.117 mi. 617 ft. — **15 SOUTH ST.** — **ERNS** — **94361860**

15 SOUTH ST. — **N/A**

NEW BEDFORD, MA 02740

Site 1 of 2 in cluster B

Relative: Higher

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

Actual: 4 ft.

B8 WNW < 1/8 0.117 mi. 617 ft. — **NO LOCATION AID** — **SHWS RELEASE** — **S106513515**

15 SOUTH ST — **N/A**

NEW BEDFORD, MA

Site 2 of 2 in cluster B

Relative: Higher

Actual: 4 ft.

SHWS:

Facility ID:	4-0018467
Release Town:	NEW BEDFORD
Notification Date:	05/30/2004
Category:	TWO HR
Associated ID:	Not reported
Compliance Status:	**Release Action Outcome**
Status Date:	08/06/2004
Phase:	Not reported
Response Action Outcome Class:	A2
Oil Or Haz Material:	Oil

Chemical:

Chemical:	#2 FUEL OIL

NO LOCATION AID (Continued) **S106513515**

Quantity: 30 gallons

Location:
Location Type: INDUSTRIAL

Source:
Source Type: TANKER

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/06/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/29/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/01/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: FLDISS
Action Date: 07/01/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 05/30/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of a Modified Plan
Action Date: 05/30/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 05/30/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 4-0018467
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 05/30/2004
Category: TWO HR

NO LOCATION AID (Continued) **S106513515**

Facility Status: Response Action Outcome
Status Date: 08/06/2004
Phase: Not reported
Rspns Actn Outcome Class: A2
Oil / Haz Material Type: Oil

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/06/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/29/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/01/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: FLDISS
Action Date: 07/01/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 05/30/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of a Modified Plan
Action Date: 05/30/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 05/30/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: #2 FUEL OIL
Quantity: 30 gallons

Location:
Location Type: INDUSTRIAL

Source:
Source Type: TANKER

NO LOCATION AID (Continued) **S106513515**

Action:

Action Type:	Response Action Outcome
Action Stat:	RAO Statement Received
Action Date:	08/06/2004
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Response Action Outcome
Action Stat:	RAO Statement Received
Action Date:	07/29/2004
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	07/01/2004
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Notice of Responsibility
Action Stat:	FLDISS
Action Date:	07/01/2004
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	RLFA
Action Stat:	FLDD1A
Action Date:	05/30/2004
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Immediate Response
Action Stat:	Oral Approval of a Modified Plan
Action Date:	05/30/2004
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Release
Action Stat:	REPORT
Action Date:	05/30/2004
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

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9 **TRI ALLEGO FISH PLANT** **SPILLS** **S101026851**
North **62 HASSEY ST** **N/A**
< 1/8 **NEW BEDFORD, MA**
0.121 mi.
637 ft.

Relative:
Higher

Actual:
7 ft.

MA Spills:

Facility ID:	0000	Spill ID:	S89-0886
Staff Lead:	BRENNAN, S	Date Entered:	Not reported
Last Entered:	19900109	First Response:	19891214
Spill Date:	19891212	Spill Time:	12:00AM
Report Date:	19891214	Report Time:	10:30
Case Closed:	YES	Mat Type:	PETROLEUM

TRI ALLEGO FISH PLANT (Continued) **S101026851**

Virgin Waste:	WASTE	Contam Soil:	Not reported
Env Impact:	Not reported	Other Impact:	Not reported
Material:	WASTE OIL	Other Material:	Not reported
Qty Reported:	UNKNOWN	Qty Actual:	UNKNOWN
Qty Reported:	GALLONS	Qty Actual:	GALLONS
CAS No:	Not reported	PCB Lev (ppm):	----------
Source:	OTHER SOURCE >	Other Source:	? OF CONTAINERS
Incident:	OTHER RELEASE >	Other Incdnt:	LEAKING ON PIER
Cleanup Type:	---	Contractor:	NOT USED
Referral:	NO	LUST Elig:	---
Report Prep:	Not reported	Category:	Not reported
Notifier:	CHF BREEN/USCG		
Notif Tel:	Not reported		
Days/Close:	1		

10
West
1/8-1/4
0.175 mi.
924 ft.

BARRYS ROUTE 18 COLLISION
75 MACARTHUR BLVD
NEW BEDFORD, MA 02740

RCRA-CESQG **1000102546**
FINDS **MAD019505544**
MANIFEST

Relative:
Higher

Actual:
4 ft.

RCRA-CESQG:

Date form received by agency:	06/13/2005
Facility name:	BARRYS ROUTE 18 COLLISION
Facility address:	75 MACARTHUR BLVD NEW BEDFORD, MA 02740
EPA ID:	MAD019505544
Contact:	ROBERT ROGERS
Contact address:	75 MACARTHUR BLVD NEW BEDFORD, MA 027400000
Contact country:	US
Contact telephone:	5089921151X102
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:	PETER BARRY
Owner/operator address:	75 MACARTHUR BLVD NEW BEDFORD, MA 02740
Owner/operator country:	US
Owner/operator telephone:	Not reported

BARRYS ROUTE 18 COLLISION (Continued) **1000102546**

Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 06/17/2003
Owner/Op end date: Not reported

Owner/operator name: PETER BARRY
Owner/operator address: 75 MACARTHUR BLVD
NEW BEDFORD, MA 02740
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 06/17/2003
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
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 06/03/2005
Facility name: BARRYS ROUTE 18 COLLISION
Classification: Small Quantity Generator

Date form received by agency: 01/18/2005
Facility name: BARRYS ROUTE 18 COLLISION
Classification: Not a generator, verified

Date form received by agency: 06/26/1986
Facility name: BARRYS ROUTE 18 COLLISION
Site name: ACE AUTO BODY INC
Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

BARRYS ROUTE 18 COLLISION (Continued) **1000102546**

Waste code: D039
Waste name: TETRACHLOROETHYLENE

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED 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 NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED 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 NON-HALOGENATED 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 NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Facility Has Received Notices of Violations:

Regulation violated: SR - 353(5)
Area of violation: Generators - General
Date violation determined: 06/01/2005
Date achieved compliance: 08/18/2005
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 09/27/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 1720
Paid penalty amount: Not reported

Regulation violated: SR - 341(5)
Area of violation: Generators - Pre-transport
Date violation determined: 06/01/2005
Date achieved compliance: 09/27/2005
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 09/27/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 1720
Paid penalty amount: Not reported

Regulation violated: SR - 353(6)(g)
Area of violation: Generators - Pre-transport
Date violation determined: 06/01/2005
Date achieved compliance: 08/18/2005

BARRYS ROUTE 18 COLLISION (Continued) **1000102546**

Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 09/27/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 1720
Paid penalty amount: Not reported

Regulation violated: SR - 801
Area of violation: Generators - General
Date violation determined: 06/01/2005
Date achieved compliance: 06/03/2005
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 09/27/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 1720
Paid penalty amount: Not reported

Regulation violated: SR - 685(1)
Area of violation: Generators - General
Date violation determined: 09/19/1991
Date achieved compliance: 02/27/1992
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

Regulation violated: SR - 351(5)
Area of violation: Generators - General
Date violation determined: 09/19/1991
Date achieved compliance: 02/27/1992
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

Regulation violated: SR - 340(1)(j)
Area of violation: Generators - General
Date violation determined: 09/19/1991
Date achieved compliance: 02/27/1992
Violation lead agency: State

BARRYS ROUTE 18 COLLISION (Continued) **1000102546**

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

Regulation violated: SR - 351(9)
Area of violation: Generators - General
Date violation determined: 09/19/1991
Date achieved compliance: 02/27/1992
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

Regulation violated: SR - 682
Area of violation: Generators - General
Date violation determined: 09/19/1991
Date achieved compliance: 02/27/1992
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

Regulation violated: SR - 340(1)(b)
Area of violation: Generators - General
Date violation determined: 09/19/1991
Date achieved compliance: 02/27/1992
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: 06/01/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/18/2005
Evaluation lead agency: State

BARRYS ROUTE 18 COLLISION (Continued) **1000102546**

Evaluation date: 06/01/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 09/27/2005
Evaluation lead agency: State

Evaluation date: 06/01/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 06/03/2005
Evaluation lead agency: State

Evaluation date: 06/01/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 08/18/2005
Evaluation lead agency: State

Evaluation date: 02/27/1992
Evaluation: FOLLOW-UP INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/19/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 02/27/1992
Evaluation lead agency: State

FINDS:

Registry ID: 110003427471

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

MANIFEST:
GEN Cert Date: 3/7/2008
Transporter Recpt Date: 3/7/2008
Number Of Containers: 1
Container Type: DM
Waste Code1: D035
Waste Code2: F003
Waste Code3: F005
Comment: Not reported
Fee Exempt Code: Not reported
TSDF Name: United Oil Recovery Inc

BARRYS ROUTE 18 COLLISION (Continued) **1000102546**

TSDF ID:	RID084802842
TSDF Date:	3/10/2008
Date Imported:	7/11/2008 2:23:50 PM
Transporter 2 Name:	Not reported
Transporter 2 ID:	Not reported
Manifest Docket Number:	Not reported
Waste Description:	Not reported
Quantity:	Not reported
WT/Vol Units:	Not reported
Item Number:	Not reported
Transporter Name:	Not reported
Transporter EPA ID:	Not reported
GEN Cert Date:	Not reported
Transporter Recpt Date:	Not reported
Transporter 2 Recpt Date:	Not reported
TSDF Recpt Date:	Not reported
EPA ID:	Not reported
Transporter 2 ID:	Not reported

C11 **HARRIET TRANSPORT INC** **RCRA-NonGen** **1000361795**
NNW **63 CONWAY ST** **FINDS** **MAD005784327**
1/8-1/4 **NEW BEDFORD, MA 02742**
0.193 mi.
1018 ft. **Site 1 of 5 in cluster C**

Relative:
Higher

Actual:
11 ft.

RCRA-NonGen:

Date form received by agency:	10/09/1986
Facility name:	HARRIET TRANSPORT INC
Facility address:	63 CONWAY ST NEW BEDFORD, MA 02742
EPA ID:	MAD005784327
Mailing address:	PO BOX D620 NEW BEDFORD, MA 02742
Contact:	ROBERT SHORROCK
Contact address:	PO BOX D620 NEW BEDFORD, MA 02742
Contact country:	US
Contact telephone:	(508) 996-6793
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:	PAUL MCGOWAN
Owner/operator address:	PO BOX D620 NEW BEDFORD, MA 02742
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

HARRIET TRANSPORT INC (Continued) **1000361795**

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
Off-site waste receiver:	Commercial status unknown

Hazardous Waste Summary:

Waste code:	D001
Waste name:	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS 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:	06/23/1993
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:	06/23/1993
Evaluation lead agency:	State

FINDS:

Registry ID: 110003423199

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource

HARRIET TRANSPORT INC (Continued) **1000361795**

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.

C12 **PIER FISH COMPANY** **SHWS** **S108348150**
NW **68 CONWAY ST** **RELEASE** **N/A**
1/8-1/4 **NEW BEDFORD, MA 02740**
0.195 mi.
1027 ft. **Site 2 of 5 in cluster C**

Relative:
Higher

Actual:
11 ft.

SHWS:

Facility ID:	4-0020215
Release Town:	NEW BEDFORD
Notification Date:	12/11/2006
Category:	TWO HR
Associated ID:	Not reported
Compliance Status:	**Release Action Outcome**
Status Date:	01/29/2007
Phase:	Not reported
Response Action Outcome Class:	A1
Oil Or Haz Material:	Hazardous Material

Chemical:

Chemical:	ANHYDROUS AMMONIA
Quantity:	150 pounds

Location:

Location Type:	INDUSTRIAL
Location Type:	COMMERCIAL

Source:

Source Type:	PIPE

Action:

Action Type:	Response Action Outcome
Action Stat:	Level I - Technical Screen Audit
Action Date:	12/01/2008
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 Stat:	FLDD1U
Action Date:	02/11/2007
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 Stat:	Completion Statement Received
Action Date:	01/29/2007
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
Action Stat:	RAO Statement Received
Action Date:	01/29/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

PIER FISH COMPANY (Continued) **S108348150**

Action Type: RNF
Action Stat: REPORT
Action Date: 01/29/2007
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/15/2006
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: Notice of Responsibility
Action Stat: FLDISS
Action Date: 12/11/2006
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: Release
Action Stat: REPORT
Action Date: 12/11/2006
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 Stat: IRA Assessment Only
Action Date: 12/11/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Facility ID: 4-0020215
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 12/11/2006
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 01/29/2007
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil / Haz Material Type: Hazardous Material

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 12/01/2008
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 Stat: FLDD1U
Action Date: 02/11/2007
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

PIER FISH COMPANY (Continued) **S108348150**

Action Stat: Completion Statement Received
Action Date: 01/29/2007
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
Action Stat: RAO Statement Received
Action Date: 01/29/2007
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 Stat: REPORT
Action Date: 01/29/2007
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/15/2006
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: Notice of Responsibility
Action Stat: FLDISS
Action Date: 12/11/2006
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: Release
Action Stat: REPORT
Action Date: 12/11/2006
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 Stat: IRA Assessment Only
Action Date: 12/11/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:
Chemical: ANHYDROUS AMMONIA
Quantity: 150 pounds

Location:
Location Type: INDUSTRIAL
Location Type: COMMERCIAL

Source:
Source Type: PIPE

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 12/01/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

PIER FISH COMPANY (Continued) **S108348150**

Action Type: RLFA
Action Stat: FLDD1U
Action Date: 02/11/2007
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 Stat: Completion Statement Received
Action Date: 01/29/2007
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
Action Stat: RAO Statement Received
Action Date: 01/29/2007
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 Stat: REPORT
Action Date: 01/29/2007
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/15/2006
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: Notice of Responsibility
Action Stat: FLDISS
Action Date: 12/11/2006
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: Release
Action Stat: REPORT
Action Date: 12/11/2006
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 Stat: IRA Assessment Only
Action Date: 12/11/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

C13 NW 1/8-1/4 0.204 mi. 1076 ft. | **YELLOWBIRD MOTOR LINES INC**
85 CONWAY ST
NEW BEDFORD, MA 02742

UST | **U001004852**
FINANCIAL ASSURANCE | **N/A**

Site 3 of 5 in cluster C

Relative: Higher

Actual: 11 ft.

UST:

Facility ID:	3385

Facility:

Owner Id:	7696
Owner:	YELLOWBIRD MOTOR LINES INC
Owner Address:	85 CONWAY ST
Owner City,St,Zip:	NEW BEDFORD, MA 02742
Telephone:	(617) 997-2961
Description:	Truck/Transport
Fire Dept. ID:	5201
Date of Inspection:	Not reported
Inspector:	Not reported
Overfill Prevention:	Not reported
Spill Prevention:	Not reported

Tank ID:	1
Tank Status:	**Removed**
Tank Useage:	Not reported
Tank Material:	Not reported
Tank Contents:	Not reported
Tank Leak Detection:	Not reported
Pipe Material:	Not reported
Pipe Container:	Pressure
Pipe Leak Detection:	Not reported
Serial Number:	Not reported
Aboveground:	No
Capacity:	5000
Contents:	Diesel

Tank ID:	2
Tank Status:	**Removed**
Tank Useage:	Not reported
Tank Material:	Not reported
Tank Contents:	Not reported
Tank Leak Detection:	Not reported
Pipe Material:	Not reported
Pipe Container:	Pressure
Pipe Leak Detection:	Not reported
Serial Number:	Not reported
Aboveground:	No
Capacity:	300
Contents:	Waste Oil

FINASS2:

Facility Id:	3385
Description:	Truck/Transport
Work Phone:	(617) 997-2961
Financial Resp:	Commercial,

C14 **NW** **1/8-1/4** **0.204 mi.** **1076 ft.**	**J J TRUCK REPAIR INC** **85 CONWAY ST** **NEW BEDFORD, MA 02740** **Site 4 of 5 in cluster C**	**RCRA-CESQG** **FINDS**	**1004716995** **MAD981889322**

Relative:
Higher

Actual:
11 ft.

RCRA-CESQG:

Date form received by agency:	12/16/1986
Facility name:	J J TRUCK REPAIR INC
Facility address:	85 CONWAY ST NEW BEDFORD, MA 02740
EPA ID:	MAD981889322
Mailing address:	PO BOX 115 ACUSHNET, MA 02743
Contact:	JESSE JASON
Contact address:	PO BOX 115 ACUSHNET, MA 02743
Contact country:	US
Contact telephone:	(508) 993-8907
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:	JESSE JASON
Owner/operator address:	PO BOX 115 ACUSHNET, MA 02743
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:	JJ TRUCK REPAIR INC
Owner/operator address:	PO BOX 115 ACUSHNET, MA 02743
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

J J TRUCK REPAIR INC (Continued) **1004716995**

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
Off-site waste receiver:	Commercial status unknown

Hazardous Waste Summary:

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 LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

FINDS:

Registry ID: 110003471172

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

D15 WSW 1/8-1/4 0.214 mi. 1131 ft. | **CAPE NEWS CO.**
49 POTOMSKA ST.
NEW BEDFORD, MA 02742 | **MANIFEST** | **S109766653**
N/A

Site 1 of 3 in cluster D

Relative:
Equal

Actual:
0 ft.

CT MANIFEST:

Manifest No:	CTC0300167
Waste Occurence:	1
UNNA:	1993
Hazard Class:	FLAMMABLE
US Dot Description:	WASTE FLAMMABLE LIQUID, NOS
No of Containers:	001
Container Type:	TT
Quantity:	150
Weight/Volume:	G
Additional Description:	Y
Handling Code:	S02
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG
Manifest No:	CTC0300167
Waste Occurence:	1
EPA Waste Code:	D001
Recycled Waste?:	F
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG
Year:	1990
Manifest ID:	CTC0300167
TSDF EPA ID:	CTD021816889
TSDF Name:	UNITED OIL RECOVERY, INC.
TSDF Address:	136 GRACEY AVENUE
TSDF City,St,Zip:	MERIDEN, CT 06450
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	6/5/1990
Transporter EPA ID:	RID980906580
Transporter Name:	WESTERN OIL COMPANY
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	MAV000049366
Gererator Phone:	5089979346
Generator Mailing Addr:	49 POTOMSKA ST.
Generator Mailing Town:	NEW BEDFORD
Generator Mailing State:	MA
Generator Mailing Zip:	02742
Generator Mailing Country:	USA
Special Handling:	No
Discrepancies:	No
Date Shipped:	6/5/1990
Date Received:	6/5/1990
Last modified date:	4/27/2004
Last modified by:	IG

CAPE NEWS CO. (Continued) **S109766653**

Comments: Not reported

D16 WSW 1/8-1/4 0.218 mi. 1153 ft. | **GETTY**
56 POTOMSKA ST
NEW BEDFORD, MA 02740
Site 2 of 3 in cluster D | **LUST** **UST** **RELEASE** **FINANCIAL ASSURANCE** | **U002007821** **N/A**

Relative: Equal

Actual: 0 ft.

LUST:

Facility:

Facility ID:	4-0000485
Facility Status:	**Release Action Outcome**
Status Date:	07/09/1996
Source Type:	UST
Release Town:	NEW BEDFORD
Notification Date:	01/15/1988
Category:	NONE
Associated ID:	Not reported
Phase:	Not reported
Rspns Actn Outcome Class:	A2
Oil Or Haz Material:	Oil

Chemical:

Chemical:	PETROLEUM
Quantity:	Not reported

Location:

Location Type:	GASSTATION

Source:

Source Type:	UST

Action:

Action Type:	Response Action Outcome
Action Stat:	RAO Statement Received
Action Date:	07/09/1996
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Abatement Measure
Action Stat:	Completion Statement Received
Action Date:	06/26/1996
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Abatement Measure
Action Stat:	Status Report Received
Action Date:	05/08/1996
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Abatement Measure
Action Stat:	Written Plan Received
Action Date:	12/26/1995
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	TREGS
Action Stat:	WAVACC

GETTY (Continued) **U002007821**

Action Date: 09/03/1993
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: WAVSIG
Action Date: 08/27/1993
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: WAVREC
Action Date: 04/07/1993
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/20/1989
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: WAVDN
Action Date: 02/10/1989
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/15/1988
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 09/23/1987
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

UST:
Facility ID: 3484

Facility:
Owner Id: 139
Owner: GETTY PETROLEUM MARKETING INC
Owner Address: DEXTER RD & MASSASOIT AVE
Owner City,St,Zip: EAST PROVIDENCE, RI 02914
Telephone: (207) 799-8518
Description: Gas Station
Fire Dept. ID: 5201
Date of Inspection: Not reported
Inspector: Not reported
Overfill Prevention: Not reported
Spill Prevention: Not reported

GETTY (Continued) **U002007821**

Tank ID:	1
Tank Status:	**Removed**
Tank Useage:	Not reported
Tank Material:	Steel
Tank Contents:	Not reported
Tank Leak Detection:	Not reported
Pipe Material:	Steel
Pipe Container:	Not reported
Pipe Leak Detection:	Not reported
Serial Number:	Not reported
Aboveground:	No
Capacity:	4000
Contents:	Gasoline

Tank ID:	10
Tank Status:	**In Use**
Tank Useage:	MV
Tank Material:	Reinforced
Tank Contents:	2 Walls
Tank Leak Detection:	Interstitial Monitoring
Pipe Material:	Reinforced
Pipe Container:	2 Walls
Pipe Leak Detection:	Interstitial Space Monitor
Serial Number:	Not reported
Aboveground:	No
Capacity:	12000
Contents:	Gasoline

Tank ID:	11
Tank Status:	**In Use**
Tank Useage:	MV
Tank Material:	Reinforced
Tank Contents:	2 Walls
Tank Leak Detection:	Interstitial Monitoring
Pipe Material:	Reinforced
Pipe Container:	2 Walls
Pipe Leak Detection:	Interstitial Space Monitor
Serial Number:	Not reported
Aboveground:	No
Capacity:	6000
Contents:	Diesel

Tank ID:	2
Tank Status:	**Removed**
Tank Useage:	Not reported
Tank Material:	Steel
Tank Contents:	Not reported
Tank Leak Detection:	Not reported
Pipe Material:	Steel
Pipe Container:	Not reported
Pipe Leak Detection:	Not reported
Serial Number:	Not reported
Aboveground:	No
Capacity:	4000

GETTY (Continued) **U002007821**

Contents: Gasoline

Tank ID: 3
Tank Status: Removed
Tank Useage: Not reported
Tank Material: Steel
Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Steel
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 4000
Contents: Gasoline

Tank ID: 4
Tank Status: Removed
Tank Useage: Not reported
Tank Material: Steel
Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Steel
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 4000
Contents: Gasoline

Tank ID: 5
Tank Status: Removed
Tank Useage: Not reported
Tank Material: Steel
Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Steel
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 4000
Contents: Diesel

Tank ID: 6
Tank Status: Removed
Tank Useage: Not reported
Tank Material: Steel
Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Steel
Pipe Container: Not reported
Pipe Leak Detection: Not reported

GETTY (Continued) **U002007821**

Serial Number: Not reported
Aboveground: No
Capacity: 4000
Contents: Kerosene

Tank ID: 7
Tank Status: Removed
Tank Useage: Not reported
Tank Material: Steel
Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Steel
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 8000
Contents: Gasoline

Tank ID: 8
Tank Status: In Use
Tank Useage: MV
Tank Material: Reinforced
Tank Contents: 2 Walls
Tank Leak Detection: Interstitial Monitoring
Pipe Material: Reinforced
Pipe Container: 2 Walls
Pipe Leak Detection: Interstitial Space Monitor
Serial Number: Not reported
Aboveground: No
Capacity: 12000
Contents: Gasoline

Tank ID: 9
Tank Status: In Use
Tank Useage: MV
Tank Material: Reinforced
Tank Contents: 2 Walls
Tank Leak Detection: Interstitial Monitoring
Pipe Material: Reinforced
Pipe Container: 2 Walls
Pipe Leak Detection: Interstitial Space Monitor
Serial Number: Not reported
Aboveground: No
Capacity: 10000
Contents: Gasoline

Release:
Facility ID: 4-0000485
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 01/15/1988
Category: NONE
Facility Status: Response Action Outcome

GETTY (Continued) **U002007821**

Status Date: 07/09/1996
Phase: Not reported
Rspns Actn Outcome Class: A2
Oil / Haz Material Type: Oil

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/09/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 06/26/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 05/08/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 12/26/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: WAVACC
Action Date: 09/03/1993
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: WAVSIG
Action Date: 08/27/1993
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: WAVREC
Action Date: 04/07/1993
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/20/1989
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: WAVDN
Action Date: 02/10/1989
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

GETTY (Continued) **U002007821**

reduced to background.

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/15/1988
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 09/23/1987
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: PETROLEUM
Quantity: Not reported

Location:
Location Type: GASSTATION

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/09/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 06/26/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
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Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 12/26/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: WAVACC
Action Date: 09/03/1993
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: WAVSIG
Action Date: 08/27/1993

GETTY (Continued) **U002007821**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: WAVREC
Action Date: 04/07/1993
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/20/1989
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: WAVDN
Action Date: 02/10/1989
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/15/1988
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 09/23/1987
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

FINASS2:
Facility Id: 3484
Description: Gas Station
Work Phone: (207) 799-8518
Financial Resp: State Fund, Normal

C17 NNW 1/8-1/4 0.219 mi. 1157 ft. **ATLANTIC COAST FISHERIES CAPE ST NEW BEDFORD, MA** **SHWS RELEASE** **S103812499 N/A**

Site 5 of 5 in cluster C

Relative: Higher

Actual: 11 ft.

SHWS:
Facility ID: 4-0013002
Release Town: NEW BEDFORD
Notification Date: 05/30/1997
Category: TWO HR
Associated ID: Not reported
Compliance Status: **Release Action Outcome**
Status Date: 08/11/1997
Phase: Not reported
Response Action Outcome Class: A2
Oil Or Haz Material: Oil

ATLANTIC COAST FISHERIES (Continued) **S103812499**

Chemical:
Chemical: DIESEL FUEL
Quantity: 20 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: VEHICLE

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/11/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 07/28/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/05/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 06/05/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 05/30/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 05/30/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 4-0013002
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 05/30/1997
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 08/11/1997
Phase: Not reported
Rspns Actn Outcome Class: A2

ATLANTIC COAST FISHERIES (Continued) **S103812499**

Oil / Haz Material Type: Oil

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/11/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 07/28/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/05/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 06/05/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 05/30/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 05/30/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: DIESEL FUEL
Quantity: 20 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: VEHICLE

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/11/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 07/28/1997

ATLANTIC COAST FISHERIES (Continued) **S103812499**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/05/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 06/05/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 05/30/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 05/30/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

18
NW
1/8-1/4
0.221 mi.
1168 ft.

VARIAN ASSOCIATES LEXINGTON VACUUM **RCRA-NonGen** **1000245480**
114 CONWAY ST **FINDS** **MAD000650119**
NEW BEDFORD, MA 02740

Relative:
Higher

Actual:
11 ft.

RCRA-NonGen:
Date form received by agency: 10/06/1980
Facility name: VARIAN ASSOCIATES LEXINGTON VACUUM
Facility address: 114 CONWAY ST
NEW BEDFORD, MA 02740
EPA ID: MAD000650119
Contact: JOHN MEAKINS
Contact address: 114 CONWAY ST
NEW BEDFORD, MA 02740
Contact country: US
Contact telephone: (508) 997-7837
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: VARIAN ASSOC INC
Owner/operator address: 114 CONWAY ST
NEW BEDFORD, MA 02740
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private

VARIAN ASSOCIATES LEXINGTON VACUUM (Continued) **1000245480**

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
Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: F001
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, 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

FINDS:

Registry ID: 110003414911

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.

D19 WSW 1/8-1/4 0.248 mi. 1307 ft. | **SRTA 65 POTOMSKA ST NEW BEDFORD, MA** | **SHWS RELEASE** | **S103043654 N/A**

Site 3 of 3 in cluster D

Relative: Equal

Actual: 0 ft.

SHWS:

Facility ID:	4-0013706
Release Town:	NEW BEDFORD
Notification Date:	03/02/1998
Category:	72 HR
Associated ID:	Not reported
Compliance Status:	**Response Action Outcome Not Required**
Status Date:	05/08/1998
Phase:	Not reported
Response Action Outcome Class:	Not reported
Oil Or Haz Material:	Oil

Chemical:

Chemical:	MOTOR OIL
Quantity:	12 inches

Location:

Location Type:	INDUSTRIAL

Source:

Source Type:	PIPE

Action:

Action Type:	Response Action Outcome Not Required
Action Stat:	Related to a Tier Classified Site
Action Date:	05/08/1998
Response Action Outcome:	Not reported
Action Type:	RNF
Action Stat:	REPORT
Action Date:	05/08/1998
Response Action Outcome:	Not reported
Action Type:	Immediate Response
Action Stat:	Completion Statement Received
Action Date:	05/08/1998
Response Action Outcome:	Not reported
Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	03/05/1998
Response Action Outcome:	Not reported
Action Type:	RLFA
Action Stat:	FOLOFF
Action Date:	03/02/1998
Response Action Outcome:	Not reported
Action Type:	Release
Action Stat:	REPORT
Action Date:	03/02/1998
Response Action Outcome:	Not reported
Action Type:	Immediate Response
Action Stat:	Oral Approval of Plan

SRTA (Continued) **S103043654**

Action Date: 03/02/1998
Response Action Outcome: Not reported

Release:
Facility ID: 4-0013706
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 03/02/1998
Category: 72 HR
Facility Status: Response Action Outcome Not Required
Status Date: 05/08/1998
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Oil

Action:
Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 05/08/1998
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 05/08/1998
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 05/08/1998
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 03/05/1998
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 03/02/1998
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 03/02/1998
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 03/02/1998
Response Action Outcome: Not reported

Chemical:
Chemical: MOTOR OIL
Quantity: 12 inches

Location:

SRTA (Continued) **S103043654**

Location Type: INDUSTRIAL

Source:
Source Type: PIPE

Action:
Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 05/08/1998
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 05/08/1998
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 05/08/1998
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 03/05/1998
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 03/02/1998
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 03/02/1998
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 03/02/1998
Response Action Outcome: Not reported

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20 WSW 1/4-1/2 0.280 mi. 1476 ft. | **SOUTHEAST TRANSIT AUTHORITY** | **LUST RELEASE** | **S100829287 N/A**
75 POTOMSKA ST
NEW BEDFORD, MA 02740

Relative: Equal

Actual: 0 ft.

LUST:

Facility:
Facility ID: 4-0000714
Facility Status: Release Action Outcome
Status Date: 05/27/1999
Source Type: UST
Release Town: NEW BEDFORD
Notification Date: 10/15/1989
Category: NONE
Associated ID: Not reported

SOUTHEAST TRANSIT AUTHORITY (Continued) **S100829287**

Phase: Not reported
Rspns Actn Outcome Class: A2
Oil Or Haz Material: Oil

Chemical:
Chemical: PETROLEUM
Quantity: Not reported

Location:
Location Type: AUTOREPAIR
Location Type: MUNICIPAL

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 01/19/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 05/27/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 10/16/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 08/05/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 06/25/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM
Action Stat: NAFVIO
Action Date: 06/13/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 07/31/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification

SOUTHEAST TRANSIT AUTHORITY (Continued) **S100829287**

Action Stat: Tier 2 Classification
Action Date: 07/31/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: LSPFA
Action Date: 07/30/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/29/1990
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: TCTRNS
Action Date: 10/15/1989
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 4-0000714
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 10/15/1989
Category: NONE
Facility Status: Response Action Outcome
Status Date: 05/27/1999
Phase: Not reported
Rspns Actn Outcome Class: A2
Oil / Haz Material Type: Oil

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 01/19/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 05/27/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 10/16/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received

SOUTHEAST TRANSIT AUTHORITY (Continued) **S100829287**

Action Date: 08/05/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 06/25/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM
Action Stat: NAFVIO
Action Date: 06/13/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 07/31/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 07/31/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: LSPFA
Action Date: 07/30/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/29/1990
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: TCTRNS
Action Date: 10/15/1989
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: PETROLEUM
Quantity: Not reported

Location:
Location Type: AUTOREPAIR
Location Type: MUNICIPAL

Source:
Source Type: UST

Action:

SOUTHEAST TRANSIT AUTHORITY (Continued) **S100829287**

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 01/19/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 05/27/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 10/16/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 08/05/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 06/25/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM
Action Stat: NAFVIO
Action Date: 06/13/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 07/31/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 07/31/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: LSPFA
Action Date: 07/30/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/29/1990

SOUTHEAST TRANSIT AUTHORITY (Continued) **S100829287**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: TCTRNS
Action Date: 10/15/1989
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

E21 SSW 1/4-1/2 0.307 mi. 1623 ft. | **LOT 4 BLACKMER ST NEW BEDFORD, MA 02740** | **SHWS RELEASE INST CONTROL** | **S104562765 N/A**

Site 1 of 2 in cluster E

Relative: Higher

Actual: 2 ft.

SHWS:
Facility ID: 4-0015490
Release Town: NEW BEDFORD
Notification Date: 05/19/2000
Category: 120 DY
Associated ID: Not reported
Compliance Status: Release Action Outcome
Status Date: 03/27/2009
Phase: PHASE IV
Response Action Outcome Class: A3
Oil Or Haz Material: Hazardous Material

Chemical:
Chemical: LEAD
Quantity: 3640 parts per million

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: AUDCOM
Action Stat: NAFNON
Action Date: 11/20/2009
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 Stat: Level II - Audit Inspection
Action Date: 11/20/2009
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: RLFA
Action Stat: FLDRUN
Action Date: 10/08/2009
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.

LOT 4 (Continued) **S104562765**

Action Type: Phase III
Action Stat: Level I - Technical Screen Audit
Action Date: 10/06/2009
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 II
Action Stat: Level I - Technical Screen Audit
Action Date: 10/06/2009
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
Action Stat: Level I - Technical Screen Audit
Action Date: 10/02/2009
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 Stat: Legal Notice Published
Action Date: 03/31/2009
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
Action Stat: RAO Statement Received
Action Date: 03/27/2009
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 III
Action Stat: Completion Statement Received
Action Date: 03/27/2009
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 Stat: Transmittal Received
Action Date: 03/27/2009
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 II
Action Stat: Completion Statement Received
Action Date: 03/27/2009
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

LOT 4 (Continued) **S104562765**

Action Stat: Status Report Received
Action Date: 08/22/2008
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 II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 05/19/2008
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 Stat: Written Plan Received
Action Date: 04/22/2008
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 Stat: FLDRUN
Action Date: 01/08/2008
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: Partial Response Action Outcome
Action Stat: Action Audited
Action Date: 12/21/2007
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: AUDCOM
Action Stat: NAFNON
Action Date: 12/01/2007
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: RLFA
Action Stat: FLDRAN
Action Date: 11/21/2007
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: AUDCOM
Action Stat: NOA
Action Date: 11/13/2007
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: Partial Response Action Outcome
Action Stat: Level I - Technical Screen Audit

LOT 4 (Continued) **S104562765**

Action Date: 11/06/2006
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: Partial Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/10/2006
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 I
Action Stat: Completion Statement Received
Action Date: 05/24/2006
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 II
Action Stat: Scope of Work Received
Action Date: 05/24/2006
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: Tier Classification
Action Stat: Transmittal Received
Action Date: 05/24/2006
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: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 05/24/2006
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: Partial Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 11/09/2000
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 09/08/2000
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: RNF
Action Stat: REPORT
Action Date: 05/19/2000

LOT 4 (Continued) **S104562765**

Response Action Outcome: A 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
Action Stat: REPORT
Action Date: 05/19/2000
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.

Release:
Facility ID: 4-0015490
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 05/19/2000
Category: 120 DY
Facility Status: Response Action Outcome
Status Date: 03/27/2009
Phase: PHASE IV
Rspns Actn Outcome Class: A3
Oil / Haz Material Type: Hazardous Material

Action:
Action Type: AUDCOM
Action Stat: NAFNON
Action Date: 11/20/2009
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 Stat: Level II - Audit Inspection
Action Date: 11/20/2009
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: RLFA
Action Stat: FLDRUN
Action Date: 10/08/2009
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 III
Action Stat: Level I - Technical Screen Audit
Action Date: 10/06/2009
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 II
Action Stat: Level I - Technical Screen Audit
Action Date: 10/06/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

LOT 4 (Continued) **S104562765**

reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 10/02/2009
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 Stat: Legal Notice Published
Action Date: 03/31/2009
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
Action Stat: RAO Statement Received
Action Date: 03/27/2009
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 III
Action Stat: Completion Statement Received
Action Date: 03/27/2009
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 Stat: Transmittal Received
Action Date: 03/27/2009
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 II
Action Stat: Completion Statement Received
Action Date: 03/27/2009
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 Stat: Status Report Received
Action Date: 08/22/2008
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 II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 05/19/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

LOT 4 (Continued) **S104562765**

been implemented.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 04/22/2008
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 Stat: FLDRUN
Action Date: 01/08/2008
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: Partial Response Action Outcome
Action Stat: Action Audited
Action Date: 12/21/2007
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: AUDCOM
Action Stat: NAFNON
Action Date: 12/01/2007
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: RLFA
Action Stat: FLDRAN
Action Date: 11/21/2007
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: AUDCOM
Action Stat: NOA
Action Date: 11/13/2007
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: Partial Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 11/06/2006
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: Partial Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/10/2006
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.

LOT 4 (Continued) **S104562765**

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 05/24/2006
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 II
Action Stat: Scope of Work Received
Action Date: 05/24/2006
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: Tier Classification
Action Stat: Transmittal Received
Action Date: 05/24/2006
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: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 05/24/2006
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: Partial Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 11/09/2000
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 09/08/2000
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: RNF
Action Stat: REPORT
Action Date: 05/19/2000
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: Release
Action Stat: REPORT
Action Date: 05/19/2000
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.

LOT 4 (Continued) **S104562765**

Chemical:
Chemical: LEAD
Quantity: 3640 parts per million

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: AUDCOM
Action Stat: NAFNON
Action Date: 11/20/2009
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 Stat: Level II - Audit Inspection
Action Date: 11/20/2009
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: RLFA
Action Stat: FLDRUN
Action Date: 10/08/2009
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 III
Action Stat: Level I - Technical Screen Audit
Action Date: 10/06/2009
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 II
Action Stat: Level I - Technical Screen Audit
Action Date: 10/06/2009
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
Action Stat: Level I - Technical Screen Audit
Action Date: 10/02/2009
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 Stat: Legal Notice Published
Action Date: 03/31/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

LOT 4 (Continued) **S104562765**

been implemented.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/27/2009
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 III
Action Stat: Completion Statement Received
Action Date: 03/27/2009
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 Stat: Transmittal Received
Action Date: 03/27/2009
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 II
Action Stat: Completion Statement Received
Action Date: 03/27/2009
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 Stat: Status Report Received
Action Date: 08/22/2008
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 II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 05/19/2008
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 Stat: Written Plan Received
Action Date: 04/22/2008
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 Stat: FLDRUN
Action Date: 01/08/2008
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.

LOT 4 (Continued) **S104562765**

Action Type: Partial Response Action Outcome
Action Stat: Action Audited
Action Date: 12/21/2007
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: AUDCOM
Action Stat: NAFNON
Action Date: 12/01/2007
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: RLFA
Action Stat: FLDRAN
Action Date: 11/21/2007
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: AUDCOM
Action Stat: NOA
Action Date: 11/13/2007
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: Partial Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 11/06/2006
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: Partial Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/10/2006
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 I
Action Stat: Completion Statement Received
Action Date: 05/24/2006
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 II
Action Stat: Scope of Work Received
Action Date: 05/24/2006
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: Tier Classification

LOT 4 (Continued) **S104562765**

Action Stat: Transmittal Received
Action Date: 05/24/2006
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: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 05/24/2006
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: Partial Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 11/09/2000
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 09/08/2000
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: RNF
Action Stat: REPORT
Action Date: 05/19/2000
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: Release
Action Stat: REPORT
Action Date: 05/19/2000
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.

INST CONTROL:
Release Tracking Number: 4-0015490
Action Type: AUL
Action Stat: RECPT
Action Date: 03/27/2009
Response Action Outcome: A3

Release Tracking Number: 4-0015490
Action Type: AUL
Action Stat: LEGNOT
Action Date: 03/31/2009
Response Action Outcome: A3

Release Tracking Number: 4-0015490
Action Type: AUL

LOT 4 (Continued) **S104562765**

Action Stat: SNAUDI
Action Date: 11/20/2009
Response Action Outcome: A3

E22 SSW 1/4-1/2 0.334 mi. 1765 ft. | **STANDARD TIMES FIELD LOT 9G**
FRONT STREET
NEW BEDFORD, MA 02740 | **US BROWNFIELDS** | **1009806323**
N/A

Site 2 of 2 in cluster E

Relative: Higher

Actual: 3 ft.

US BROWNFIELDS:

Recipient name:	New Bedford, City of
Project name:	New Bedford, MA (A03)
Property name:	Standard Times Field Lot 9G
Parcel #:	New Bedford Assessor's Map 25A Lots 55, 60, 62, 63
Parcel size:	2.03
Latitude:	41.620161
Longitude:	-70.919349
Region:	1
HCM label:	Not reported
Map scale:	Not reported
Point of reference:	Other Point
Datum:	World Geodetic System of 1984
ICREQ date:	Not reported
ACRES property ID:	29821
Start date:	1/30/2006
Completed date:	1/30/2006
Accomplishment type:	Phase I Environmental Assessment
Accomplishment (acres):	Not reported
Ownership entity:	Government
Current use:	Not reported
Current owner:	City of New Bedford
Future use:	Not reported
Past use flag:	Not reported
Future use flag:	Not reported
Cleanup required:	Unknown
Proprietary controls:	Not reported
Gov. control:	Not reported
Enforcement permit tools:	Not reported
Info. devices:	Not reported
Video available:	No
Photo available:	Yes
Usage type:	Not reported
Not in state/tribal program:	Not reported
IC data address:	Not reported
IC in place date:	Not reported
IC in place flag:	Not reported
IC required flag:	No
NFA issue date:	Not reported
State and tribal program date:	Not reported
State and tribal program ID:	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

STANDARD TIMES FIELD LOT 9G (Continued) **1009806323**

Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Yes
Lead cleaned up:	Yes
None found:	Not reported
None cleaned up:	Not reported
No media found:	Not reported
No media cleaned up:	Not reported
Other found:	Not reported
Other cleaned up:	Yes
Other metals found:	Yes
Other metals cleaned:	Yes
PAHs found:	Yes
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:	Yes
Soil cleaned up:	Yes
Surface water affected:	Not reported
Surface water cleaned:	Not reported
Unknown found:	Not reported
Unknwon cleaned:	Not reported
Unknown media:	Not reported
Unknown media cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported

Recipient name:	New Bedford, City of
Project name:	New Bedford, MA (A03)
Property name:	Standard Times Field Lot 9G
Parcel #:	New Bedford Assessor's Map 25A Lots 55, 60, 62, 63
Parcel size:	2.03
Latitude:	41.620161
Longitude:	-70.919349
Region:	1
HCM label:	Not reported
Map scale:	Not reported
Point of reference:	Other Point
Datum:	World Geodetic System of 1984
ICREQ date:	Not reported
ACRES property ID:	29821
Start date:	Not reported
Completed date:	12/6/2007
Accomplishment type:	Acres Cleaned Up
Accomplishment (acres):	2.03
Ownership entity:	Government
Current use:	Not reported
Current owner:	City of New Bedford
Future use:	Not reported
Past use flag:	Not reported
Future use flag:	Not reported
Cleanup required:	Unknown

STANDARD TIMES FIELD LOT 9G (Continued) **1009806323**

Proprietary controls:	Not reported
Gov. control:	Not reported
Enforcement permit tools:	Not reported
Info. devices:	Not reported
Video available:	No
Photo available:	Yes
Usage type:	Not reported
Not in state/tribal program:	Not reported
IC data address:	Not reported
IC in place date:	Not reported
IC in place flag:	Not reported
IC required flag:	No
NFA issue date:	Not reported
State and tribal program date:	Not reported
State and tribal program ID:	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:	Yes
Lead cleaned up:	Yes
None found:	Not reported
None cleaned up:	Not reported
No media found:	Not reported
No media cleaned up:	Not reported
Other found:	Not reported
Other cleaned up:	Yes
Other metals found:	Yes
Other metals cleaned:	Yes
PAHs found:	Yes
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:	Yes
Soil cleaned up:	Yes
Surface water affected:	Not reported
Surface water cleaned:	Not reported
Unknown found:	Not reported
Unknwon cleaned:	Not reported
Unknown media:	Not reported
Unknown media cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported

Property Description: The property was formerly part of a mill complex demolished around 1930. The property was developed as a baseball field at an unknown time. The City and the New Bedford Redevelopment Authority acquired

STANDARD TIMES FIELD LOT 9G (Continued) **1009806323**

the property in December 2001 and sold a portionn of the property. Use as a baseball field ceased. The City planned to assess the remaining portion of the property and market it for use as a boat yard. In January 2005 the City began exploring the possibility of redeveloping the property back intoa baseball field.

23
West
1/4-1/2
0.419 mi.
2210 ft.

ACUSNET AVE SCHOOL FMR
266 PURCHASE ST
NEW BEDFORD, MA

LUST RELEASE **S106131665 N/A**

Relative: Higher

Actual: 5 ft.

LUST:

Facility:

Facility ID:	4-0018079
Facility Status:	**Release Action Outcome**
Status Date:	12/30/2003
Source Type:	UST
Release Town:	NEW BEDFORD
Notification Date:	10/14/2003
Category:	TWO HR
Associated ID:	Not reported
Phase:	Not reported
Rspns Actn Outcome Class:	A1
Oil Or Haz Material:	Not reported

Chemical:

Chemical:	#4 OIL
Quantity:	10000 gallons

Location:

Location Type:	RESIDNTIAL

Source:

Source Type:	UST

Action:

Action Type:	Immediate Response Action - DEP Lead
Action Stat:	Completion Statement Received
Action Date:	12/30/2003
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
Action Stat:	RAO Statement Received
Action Date:	12/30/2003
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 Stat:	Written Plan Received
Action Date:	12/24/2003
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 Stat:	REPORT
Action Date:	12/24/2003
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

ACUSNET AVE SCHOOL FMR (Continued) **S106131665**

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 11/16/2003
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 Stat: FOLOFF
Action Date: 11/14/2003
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 Stat: FOLOFF
Action Date: 11/13/2003
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: C&E
Action Stat: NORA
Action Date: 10/21/2003
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/21/2003
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: Notice of Responsibility
Action Stat: FLDISS
Action Date: 10/15/2003
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 Stat: Oral Approval of Plan
Action Date: 10/15/2003
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
Action Stat: REPORT
Action Date: 10/14/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Facility ID: 4-0018079
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 10/14/2003
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 12/30/2003

ACUSNET AVE SCHOOL FMR (Continued) **S106131665**

Phase: Not reported
Rspns Actn Outcome Class: A1
Oil / Haz Material Type: Not reported

Action:

Action Type: Immediate Response Action - DEP Lead
Action Stat: Completion Statement Received
Action Date: 12/30/2003
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
Action Stat: RAO Statement Received
Action Date: 12/30/2003
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 Stat: Written Plan Received
Action Date: 12/24/2003
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 Stat: REPORT
Action Date: 12/24/2003
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 Stat: FLDRAN
Action Date: 11/16/2003
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 Stat: FOLOFF
Action Date: 11/14/2003
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 Stat: FOLOFF
Action Date: 11/13/2003
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: C&E
Action Stat: NORA
Action Date: 10/21/2003
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/21/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

ACUSNET AVE SCHOOL FMR (Continued) **S106131665**

Action Type: Notice of Responsibility
Action Stat: FLDISS
Action Date: 10/15/2003
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 Stat: Oral Approval of Plan
Action Date: 10/15/2003
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
Action Stat: REPORT
Action Date: 10/14/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:
Chemical: #4 OIL
Quantity: 10000 gallons

Location:
Location Type: RESIDNTIAL

Source:
Source Type: UST

Action:
Action Type: Immediate Response Action - DEP Lead
Action Stat: Completion Statement Received
Action Date: 12/30/2003
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
Action Stat: RAO Statement Received
Action Date: 12/30/2003
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 Stat: Written Plan Received
Action Date: 12/24/2003
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 Stat: REPORT
Action Date: 12/24/2003
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 Stat: FLDRAN
Action Date: 11/16/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

ACUSNET AVE SCHOOL FMR (Continued) **S106131665**

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 11/14/2003
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 Stat: FOLOFF
Action Date: 11/13/2003
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: C&E
Action Stat: NORA
Action Date: 10/21/2003
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/21/2003
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: Notice of Responsibility
Action Stat: FLDISS
Action Date: 10/15/2003
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 Stat: Oral Approval of Plan
Action Date: 10/15/2003
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
Action Stat: REPORT
Action Date: 10/14/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

24
SSW
1/4-1/2
0.435 mi.
2294 ft.

DARN-IT, INC. LOADING DOCK
84 GIFFORD ST
NEW BEDFORD, MA

SHWS **S104562766**
RELEASE **N/A**

Relative:
Equal

Actual:
0 ft.

SHWS:
Facility ID: 4-0015491
Release Town: NEW BEDFORD
Notification Date: 05/09/2000
Category: 120 DY
Associated ID: Not reported
Compliance Status: **Release Action Outcome**
Status Date: 05/16/2001
Phase: Not reported

DARN-IT, INC. LOADING DOCK (Continued) **S104562766**

Response Action Outcome Class: B1
Oil Or Haz Material: Oil and Hazardous Material

Chemical:
Chemical: C11 THRU C22 AROMATIC HYDROCARBONS
Quantity: 1200 parts per million
Chemical: LEAD
Quantity: .058 parts per million
Chemical: BENZO[A]ANTHRACENE
Quantity: 5.6 parts per million

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 04/28/2004
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 05/17/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 05/16/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/07/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release
Action Stat: REPORT
Action Date: 05/09/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF
Action Stat: REPORT
Action Date: 05/09/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Facility ID: 4-0020913
Release Town: NEW BEDFORD
Notification Date: 11/21/2007
Category: TWO HR

DARN-IT, INC. LOADING DOCK (Continued) **S104562766**

Associated ID: Not reported
Compliance Status: **Release Action Outcome**
Status Date: 01/28/2008
Phase: Not reported
Response Action Outcome Class: A1
Oil Or Haz Material: Oil

Chemical:
Chemical: DIESEL FUEL
Quantity: 45 gallons

Location:
Location Type: PRIVPROP
Location Type: ROADWAY

Source:
Source Type: FUELTANK
Source Type: VEHICLE

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 04/14/2008
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
Action Stat: RAO Statement Received
Action Date: 01/28/2008
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 Stat: REPORT
Action Date: 01/28/2008
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/05/2007
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
Action Stat: REPORT
Action Date: 11/21/2007
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 Stat: FLDD1U
Action Date: 11/21/2007
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 Stat: Oral Approval of Plan
Action Date: 11/21/2007

DARN-IT, INC. LOADING DOCK (Continued) **S104562766**

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:

Facility ID:	4-0015491
Primary ID:	Not reported
Official City:	NEW BEDFORD
Notification:	05/09/2000
Category:	120 DY
Facility Status:	Response Action Outcome
Status Date:	05/16/2001
Phase:	Not reported
Rspns Actn Outcome Class:	B1
Oil / Haz Material Type:	Oil and Hazardous Material

Action:

Action Type:	Response Action Outcome
Action Stat:	Level I - Technical Screen Audit
Action Date:	04/28/2004
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.
Action Type:	Response Action Outcome
Action Stat:	Fee Received
Action Date:	05/17/2001
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.
Action Type:	Response Action Outcome
Action Stat:	RAO Statement Received
Action Date:	05/16/2001
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.
Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	07/07/2000
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.
Action Type:	Release
Action Stat:	REPORT
Action Date:	05/09/2000
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.
Action Type:	RNF
Action Stat:	REPORT
Action Date:	05/09/2000
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

Chemical:

Chemical:	C11 THRU C22 AROMATIC HYDROCARBONS
Quantity:	1200 parts per million
Chemical:	LEAD

DARN-IT, INC. LOADING DOCK (Continued) **S104562766**

Quantity: .058 parts per million
Chemical: BENZO[A]ANTHRACENE
Quantity: 5.6 parts per million

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 04/28/2004
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 05/17/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 05/16/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/07/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release
Action Stat: REPORT
Action Date: 05/09/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF
Action Stat: REPORT
Action Date: 05/09/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Facility ID: 4-0020913
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 11/21/2007
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 01/28/2008
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil / Haz Material Type: Oil

DARN-IT, INC. LOADING DOCK (Continued) **S104562766**

Action:

Action Type:	Response Action Outcome
Action Stat:	Level I - Technical Screen Audit
Action Date:	04/14/2008
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
Action Stat:	RAO Statement Received
Action Date:	01/28/2008
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 Stat:	REPORT
Action Date:	01/28/2008
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:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	12/05/2007
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
Action Stat:	REPORT
Action Date:	11/21/2007
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 Stat:	FLDD1U
Action Date:	11/21/2007
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 Stat:	Oral Approval of Plan
Action Date:	11/21/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:

Chemical:	DIESEL FUEL
Quantity:	45 gallons

Location:

Location Type:	PRIVPROP
Location Type:	ROADWAY

Source:

Source Type:	FUELTANK
Source Type:	VEHICLE

Action:

Action Type:	Response Action Outcome
Action Stat:	Level I - Technical Screen Audit

DARN-IT, INC. LOADING DOCK (Continued) **S104562766**

Action Date: 04/14/2008
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
Action Stat: RAO Statement Received
Action Date: 01/28/2008
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 Stat: REPORT
Action Date: 01/28/2008
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/05/2007
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
Action Stat: REPORT
Action Date: 11/21/2007
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 Stat: FLDD1U
Action Date: 11/21/2007
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 Stat: Oral Approval of Plan
Action Date: 11/21/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

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25 West 1/4-1/2 0.453 mi. 2391 ft.

STANDARD TAXI
241 COUNTY ST
NEW BEDFORD, MA 02740

SHWS RELEASE **S100363079 N/A**

Relative: Higher

Actual: 6 ft.

SHWS:
Facility ID: 4-0001052
Release Town: NEW BEDFORD
Notification Date: 04/15/1991
Category: NONE
Associated ID: Not reported
Compliance 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**

STANDARD TAXI (Continued) **S100363079**

accepted waivers are categorically Tier 2 sites.
Status Date: 02/03/1998
Phase: PHASE II
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: MOTOR POOL

Source:
Source Type: PIPE

Action:
Action Type: C&E
Action Stat: NON
Action Date: 10/07/2009
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: NON
Action Date: 05/01/2009
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 06/18/2003
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: NON
Action Date: 04/16/2003
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 10/26/1998
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 07/15/1998
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 02/03/1998
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 02/03/1998
Response Action Outcome: Not reported

Action Type: Phase I
Action Stat: Completion Statement Received

STANDARD TAXI (Continued) **S100363079**

Action Date: 02/03/1998
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 04/15/1991
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: RFI
Action Date: 01/25/1991
Response Action Outcome: Not reported

Release:
Facility ID: 4-0001052
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 04/15/1991
Category: NONE
Facility Status: TIERII
Status Date: 02/03/1998
Phase: PHASE II
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: C&E
Action Stat: NON
Action Date: 10/07/2009
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: NON
Action Date: 05/01/2009
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 06/18/2003
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: NON
Action Date: 04/16/2003
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 10/26/1998
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 07/15/1998
Response Action Outcome: Not reported

STANDARD TAXI (Continued) **S100363079**

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 02/03/1998
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 02/03/1998
Response Action Outcome: Not reported

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 02/03/1998
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 04/15/1991
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: RFI
Action Date: 01/25/1991
Response Action Outcome: Not reported

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: MOTOR POOL

Source:
Source Type: PIPE

Action:
Action Type: C&E
Action Stat: NON
Action Date: 10/07/2009
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: NON
Action Date: 05/01/2009
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 06/18/2003
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: NON
Action Date: 04/16/2003
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received

STANDARD TAXI (Continued) **S100363079**

Action Date:	10/26/1998
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Stat:	Written Plan Received
Action Date:	07/15/1998
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	Tier 2 Classification
Action Date:	02/03/1998
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	Transmittal Received
Action Date:	02/03/1998
Response Action Outcome:	Not reported
Action Type:	Phase I
Action Stat:	Completion Statement Received
Action Date:	02/03/1998
Response Action Outcome:	Not reported
Action Type:	Release
Action Stat:	TCTRNS
Action Date:	04/15/1991
Response Action Outcome:	Not reported
Action Type:	C&E
Action Stat:	RFI
Action Date:	01/25/1991
Response Action Outcome:	Not reported

26
West
1/4-1/2
0.467 mi.
2465 ft.

ATLANTIC ELEVATOR & GARAGE
128 GRINNELL ST
NEW BEDFORD, MA

SHWS **S103812667**
RELEASE **N/A**

Relative:
Higher

Actual:
10 ft.

SHWS:

Facility ID:	4-0014620
Release Town:	NEW BEDFORD
Notification Date:	03/25/1999
Category:	TWO HR
Associated ID:	Not reported
Compliance Status:	**Release Action Outcome**
Status Date:	05/11/1999
Phase:	Not reported
Response Action Outcome Class:	A1
Oil Or Haz Material:	Oil

Chemical:

Chemical:	MOTOR OIL
Quantity:	25 gallons

Location:

Location Type:	COMMERCIAL

ATLANTIC ELEVATOR & GARAGE (Continued) **S103812667**

Source:
Source Type: VEHICLE

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 01/10/2005
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
Action Stat: RAO Statement Received
Action Date: 05/11/1999
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: RNF
Action Stat: REPORT
Action Date: 05/11/1999
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 04/02/1999
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
Action Stat: REPORT
Action Date: 03/25/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Facility ID: 4-0014620
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 03/25/1999
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 05/11/1999
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil / Haz Material Type: Oil

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 01/10/2005
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
Action Stat: RAO Statement Received
Action Date: 05/11/1999

ATLANTIC ELEVATOR & GARAGE (Continued) **S103812667**

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 Stat: REPORT
Action Date: 05/11/1999
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 04/02/1999
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
Action Stat: REPORT
Action Date: 03/25/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:
Chemical: MOTOR OIL
Quantity: 25 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: VEHICLE

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 01/10/2005
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
Action Stat: RAO Statement Received
Action Date: 05/11/1999
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: RNF
Action Stat: REPORT
Action Date: 05/11/1999
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 04/02/1999
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
Action Stat: REPORT

ATLANTIC ELEVATOR & GARAGE (Continued) **S103812667**

Action Date: 03/25/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F27 **SPRAGUE ENERGY CORP** **RCRA-NonGen** **1000161554**
NW **30 PINE ST** **LAST** **MAD075727503**
1/4-1/2 **NEW BEDFORD, MA 02740** **MANIFEST**
0.479 mi. **RELEASE**
2532 ft. **Site 1 of 4 in cluster F**

Relative: Higher

Actual: 9 ft.

RCRA-NonGen:
Date form received by agency: 06/21/2006
Facility name: SPRAGUE ENERGY CORP
Facility address: 30 PINE ST
NEW BEDFORD, MA 02740
EPA ID: MAD075727503
Contact: TIMOTHY KIPP
Contact address: TWO INTERNATIONAL DR
PORTSMOUTH, NH 028010000
Contact country: US
Contact telephone: (603) 430-7264
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: SPRAGUE ENERGY CORP
Owner/operator address: TWO INTERNATIONAL DR
PORTSMOUTH, NH 02801
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 06/22/2006
Owner/Op end date: Not reported

Owner/operator name: SPRAGUE ENERGY CORP
Owner/operator address: TWO INTERNATIONAL DR
PORTSMOUTH, NH 02801
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 06/22/2006
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

SPRAGUE ENERGY CORP (Continued) **1000161554**

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
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 10/31/1980
Facility name: SPRAGUE ENERGY CORP
Site name: SPRAGUE MASSACHUSETTS
Classification: Small Quantity Generator

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: MA01
Waste name: WASTE OIL

Waste code: MA98
Waste name: OFF SPECIFICATION USED OIL FUEL THAT IS SHIPPED USING A HW MANIFEST

Waste code: MA99
Waste name: NON-HAZARDOUS WASTE TO BE USED ONLY FOR NON-HW SHIPPED USING HW MANIFEST

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 05/29/1985
Date achieved compliance: 05/29/1990
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

SPRAGUE ENERGY CORP (Continued) **1000161554**

Date achieved compliance: 05/29/1990
Evaluation lead agency: State

LAST:
Facility ID: 4-0015577
Source Type: AST
Release Town: NEW BEDFORD
Notification Date: 07/06/2000
Category: TWO HR
Associated ID: Not reported
Facility Status: Release Action Outcome
Status Date: 02/22/2001
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil Or Haz Material: Oil

Chemical:
Chemical: #6 FUEL OIL
Quantity: Not reported

Location:
Location Type: COMMERCIAL
Location Type: INDUSTRIAL

Source:
Source Type: AST

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 04/02/2004
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: Immediate Response
Action Stat: Completion Statement Received
Action Date: 02/22/2001
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
Action Stat: RAO Statement Received
Action Date: 02/22/2001
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 Stat: Status Report Received
Action Date: 11/02/2000
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 Stat: REPORT
Action Date: 09/05/2000
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 Stat: Written Plan Received

SPRAGUE ENERGY CORP (Continued) **1000161554**

Action Date: 09/05/2000
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/17/2000
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: RLFA
Action Stat: FOLOFF
Action Date: 07/07/2000
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
Action Stat: REPORT
Action Date: 07/06/2000
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: RLFA
Action Stat: FLDD1A
Action Date: 07/06/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

MANIFEST:
GEN Cert Date: 9/22/2006
Transporter Recpt Date: 9/22/2006
Number Of Containers: 3
Container Type: R003MA98
Waste Code1: MA99
Waste Code2: MA99
Waste Code3: Not reported
Comment: Not reported
Fee Exempt Code: Not reported
TSDF Name: United Oil Recovery Inc
TSDF ID: RID084802842
TSDF Date: 9/22/2006
Date Imported: 9/21/2007 5:11:56 PM
Transporter 2 Name: Not reported
Transporter 2 ID: Not reported
Manifest Docket Number: Not reported
Waste Description: Not reported
Quantity: Not reported
WT/Vol Units: Not reported
Item Number: Not reported
Transporter Name: Not reported
Transporter EPA ID: Not reported
GEN Cert Date: Not reported
Transporter Recpt Date: Not reported
Transporter 2 Recpt Date: Not reported
TSDF Recpt Date: Not reported
EPA ID: Not reported

SPRAGUE ENERGY CORP (Continued) **1000161554**

Transporter 2 ID: Not reported

Release:

Facility ID:	4-0015577
Primary ID:	Not reported
Official City:	NEW BEDFORD
Notification:	07/06/2000
Category:	TWO HR
Facility Status:	Response Action Outcome
Status Date:	02/22/2001
Phase:	Not reported
Rspns Actn Outcome Class:	A1
Oil / Haz Material Type:	Oil

Action:

Action Type:	Response Action Outcome
Action Stat:	Level I - Technical Screen Audit
Action Date:	04/02/2004
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:	Immediate Response
Action Stat:	Completion Statement Received
Action Date:	02/22/2001
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
Action Stat:	RAO Statement Received
Action Date:	02/22/2001
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 Stat:	Status Report Received
Action Date:	11/02/2000
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 Stat:	REPORT
Action Date:	09/05/2000
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 Stat:	Written Plan Received
Action Date:	09/05/2000
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:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	07/17/2000
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

SPRAGUE ENERGY CORP (Continued) **1000161554**

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 07/07/2000
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
Action Stat: REPORT
Action Date: 07/06/2000
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: RLFA
Action Stat: FLDD1A
Action Date: 07/06/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:
Chemical: #6 FUEL OIL
Quantity: Not reported

Location:
Location Type: COMMERCIAL
Location Type: INDUSTRIAL

Source:
Source Type: AST

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 04/02/2004
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: Immediate Response
Action Stat: Completion Statement Received
Action Date: 02/22/2001
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
Action Stat: RAO Statement Received
Action Date: 02/22/2001
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 Stat: Status Report Received
Action Date: 11/02/2000
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 Stat: REPORT
Action Date: 09/05/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced

SPRAGUE ENERGY CORP (Continued) **1000161554**

to background or a threat of release has been eliminated.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 09/05/2000
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/17/2000
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: RLFA
Action Stat: FOLOFF
Action Date: 07/07/2000
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
Action Stat: REPORT
Action Date: 07/06/2000
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: RLFA
Action Stat: FLDD1A
Action Date: 07/06/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F28 **SPRAGUE ENERGY** **SHWS** **S108348211**
NW **30 PINE ST** **RELEASE** **N/A**
1/4-1/2 **NEW BEDFORD, MA**
0.479 mi.
2532 ft. **Site 2 of 4 in cluster F**

Relative:
Higher

Actual:
9 ft.

SHWS:
Facility ID: 4-0020254
Release Town: NEW BEDFORD
Notification Date: 01/08/2007
Category: TWO HR
Associated ID: Not reported
Compliance Status: **Release Action Outcome**
Status Date: 03/08/2007
Phase: Not reported
Response Action Outcome Class: A2
Oil Or Haz Material: Oil

Chemical:
Chemical: FUEL OIL
Quantity: 32 gallons

Location:
Location Type: COMMERCIAL

Source:

SPRAGUE ENERGY (Continued) **S108348211**

Source Type: Not reported

Action:

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 03/22/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/08/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 03/08/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 02/08/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 01/08/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 01/08/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Facility ID: 4-0020254
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 01/08/2007
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 03/08/2007
Phase: Not reported
Rspns Actn Outcome Class: A2
Oil / Haz Material Type: Oil

Action:

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 03/22/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

SPRAGUE ENERGY (Continued) **S108348211**

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/08/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 03/08/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 02/08/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 01/08/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 01/08/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: FUEL OIL
Quantity: 32 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 03/22/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/08/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 03/08/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

SPRAGUE ENERGY (Continued) **S108348211**

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 02/08/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 01/08/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 01/08/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

F29 **GLOBAL OIL FACILITY** **SHWS** **S101037323**
NW **30 PINE ST** **LAST** **N/A**
1/4-1/2 **NEW BEDFORD, MA** **RELEASE**
0.479 mi. **SPILLS**
2532 ft. **Site 3 of 4 in cluster F**

Relative:
Higher

Actual:
9 ft.

SHWS:
Facility ID: 4-0018540
Release Town: NEW BEDFORD
Notification Date: 07/12/2004
Category: TWO HR
Associated ID: Not reported
Compliance Status: **Release Action Outcome**
Status Date: 11/10/2004
Phase: Not reported
Response Action Outcome Class: A2
Oil Or Haz Material: Not reported

Chemical:
Chemical: #6 OIL
Quantity: 200 gallons

Location:
Location Type: INDUSTRIAL

Source:
Source Type: PIPE

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 11/29/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 11/10/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

GLOBAL OIL FACILITY (Continued) **S101037323**

Action Type:	Immediate Response
Action Stat:	Level I - Technical Screen Audit
Action Date:	09/14/2004
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Immediate Response
Action Stat:	Written Plan Received
Action Date:	09/09/2004
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	RNF
Action Stat:	REPORT
Action Date:	09/09/2004
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	08/05/2004
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Release
Action Stat:	REPORT
Action Date:	07/12/2004
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Immediate Response
Action Stat:	Oral Approval of Plan
Action Date:	07/12/2004
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Facility ID:	4-0021153
Release Town:	NEW BEDFORD
Notification Date:	03/27/2008
Category:	TWO HR
Associated ID:	Not reported
Compliance Status:	**Adequately Regulated**
Status Date:	03/30/2008
Phase:	Not reported
Response Action Outcome Class:	Not reported
Oil Or Haz Material:	Not reported

Chemical:

Chemical:	BILGE SPOILS
Quantity:	Not reported
Chemical:	UNKNOWN PETROLEUM
Quantity:	Not reported

Location:

Location Type:	WATERBODY

Source:

Source Type:	BOAT

GLOBAL OIL FACILITY (Continued) **S101037323**

Action:

Action Type:	Response Action Outcome Not Required
Action Stat:	Adequately Regulated
Action Date:	03/30/2008
Response Action Outcome:	Not reported
Action Type:	RLFA
Action Stat:	FLDDO
Action Date:	03/27/2008
Response Action Outcome:	Not reported
Action Type:	Release
Action Stat:	REPORT
Action Date:	03/27/2008
Response Action Outcome:	Not reported

LAST:

Facility ID:	4-0013434
Source Type:	AST
Release Town:	NEW BEDFORD
Notification Date:	10/17/1997
Category:	TWO HR
Associated ID:	Not reported
Facility Status:	**Release Action Outcome**
Status Date:	12/24/1997
Phase:	Not reported
Rspns Actn Outcome Class:	A1
Oil Or Haz Material:	Not reported

Chemical:

Chemical:	#6 OIL
Quantity:	200 gallons

Location:

Location Type:	COMMERCIAL

Source:

Source Type:	AST

Action:

Action Type:	Response Action Outcome
Action Stat:	RAO Statement Received
Action Date:	12/24/1997
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 Stat:	REPORT
Action Date:	12/17/1997
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:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	10/29/1997
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

GLOBAL OIL FACILITY (Continued) **S101037323**

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/17/1997
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
Action Stat: REPORT
Action Date: 10/17/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Facility ID: 4-0013434
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 10/17/1997
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 12/24/1997
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil / Haz Material Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 12/24/1997
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 Stat: REPORT
Action Date: 12/17/1997
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/29/1997
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 Stat: FOLOFF
Action Date: 10/17/1997
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
Action Stat: REPORT
Action Date: 10/17/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

GLOBAL OIL FACILITY (Continued) **S101037323**

Chemical:
Chemical: #6 OIL
Quantity: 200 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: AST

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 12/24/1997
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 Stat: REPORT
Action Date: 12/17/1997
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/29/1997
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 Stat: FOLOFF
Action Date: 10/17/1997
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
Action Stat: REPORT
Action Date: 10/17/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Facility ID: 4-0018540
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 07/12/2004
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 11/10/2004
Phase: Not reported
Rspns Actn Outcome Class: A2
Oil / Haz Material Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 11/29/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

GLOBAL OIL FACILITY (Continued) **S101037323**

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 11/10/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 09/14/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 09/09/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 09/09/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 08/05/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 07/12/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 07/12/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: #6 OIL
Quantity: 200 gallons

Location:
Location Type: INDUSTRIAL

Source:
Source Type: PIPE

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 11/29/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

GLOBAL OIL FACILITY (Continued) **S101037323**

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 11/10/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 09/14/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 09/09/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 09/09/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 08/05/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 07/12/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 07/12/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Facility ID: 4-0021153
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 03/27/2008
Category: TWO HR
Facility Status: ADQREG
Status Date: 03/30/2008
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: Response Action Outcome Not Required
Action Stat: Adequately Regulated
Action Date: 03/30/2008

GLOBAL OIL FACILITY (Continued) **S101037323**

Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDDO
Action Date: 03/27/2008
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 03/27/2008
Response Action Outcome: Not reported

Chemical:
Chemical: BILGE SPOILS
Quantity: Not reported
Chemical: UNKNOWN PETROLEUM
Quantity: Not reported

Location:
Location Type: WATERBODY

Source:
Source Type: BOAT

Action:
Action Type: Response Action Outcome Not Required
Action Stat: Adequately Regulated
Action Date: 03/30/2008
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDDO
Action Date: 03/27/2008
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 03/27/2008
Response Action Outcome: Not reported

MA Spills:

Facility ID:	0000	Spill ID:	S90-0828
Staff Lead:	LEARY, J	Date Entered:	19920226
Last Entered:	19920226	First Response:	19901108
Spill Date:	19901108	Spill Time:	12:00AM
Report Date:	19901108	Report Time:	04:00AM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	VIRGIN	Contam Soil:	Not reported
Env Impact:	Not reported	Other Impact:	Not reported
Material:	#2 FUEL OIL	Other Material:	Not reported
Qty Reported:	251-500	Qty Actual:	----------
Qty Reported:	GALLONS	Qty Actual:	----------
CAS No:	Not reported	PCB Lev (ppm):	NONE
Source:	PIPE/HOSE/LINE	Other Source:	Not reported
Incident:	LEAK	Other Incdnt:	Not reported
Cleanup Type:	---	Contractor:	NOT USED
Referral:	NO	LUST Elig:	---

GLOBAL OIL FACILITY (Continued) **S101037323**

Report Prep: Not reported Category: Not reported
Notifier: TOM CONDON/EPA
Notif Tel: Not reported
Days/Close: 1

F30
NW
1/4-1/2
0.485 mi.
2560 ft.

Relative:
Higher

Actual:
14 ft.

NEW BEDFORD GAS AND EDISON LIGHT CO **Manufactured Gas Plants** **1008408466**
S WATER STREET **N/A**
NEW BEDFORD, MA 02740

Site 4 of 4 in cluster F

G31
WNW
1/2-1
0.515 mi.
2719 ft.

Relative:
Higher

Actual:
14 ft.

MORSE CUTTING TOOLS **CERC-NFRAP** **1000378887**
163 PLEASANT STREET **RCRA-NonGen** **MAD051505683**
NEW BEDFORD, MA 02740 **FINDS**
SHWS
Site 1 of 2 in cluster G **UST**
SPILLS
RELEASE
FINANCIAL ASSURANCE

CERC-NFRAP:
Site ID: 0102598
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: Removal Only Site (No Site Assessment Work Needed)

CERCLIS-NFRAP Site Contact Name(s):
Contact Title: Site Assessment Manager
Contact Name: Nancy Smith
Contact Tel: (617) 918-1436

Contact Title: OSC
Contact Name: JANIS TSANG
Contact Tel: (617) 918-1231

Program Priority:
Description: Environmental Justice Indicator

CERCLIS-NFRAP Assessment History:
Action: REMOVAL ASSESSMENT
Date Started: 03/03/1992
Date Completed: 03/03/1992
Priority Level: Not reported

Action: AM
Date Started: Not reported
Date Completed: 04/08/1992
Priority Level: Not reported

Action: ADMINISTRATIVE RECORDS
Date Started: 06/05/1992
Date Completed: Not reported

MORSE CUTTING TOOLS (Continued) **1000378887**

Priority Level: Admin Record Compiled for a Removal Event

Action: Public Notice Published
Date Started: Not reported
Date Completed: 06/14/1992
Priority Level: Not reported

Action: REMOVAL
Date Started: 04/20/1992
Date Completed: 07/02/1992
Priority Level: Cleaned up

Action: Notice Letters Issued
Date Started: Not reported
Date Completed: 04/27/1993
Priority Level: Not reported

Action: NON-NPL PRP SEARCH
Date Started: 04/01/1992
Date Completed: 04/04/1995
Priority Level: Search Complete, No Viable PRPs

Action: DD
Date Started: Not reported
Date Completed: 04/04/1995
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 08/06/1996
Priority Level: Not reported

RCRA-NonGen:
Date form received by agency: 11/18/1980
Facility name: MORSE TOOL INC
Facility address: 163 PLEASANT ST
NEW BEDFORD, MA 02742
EPA ID: MAD051505683
Contact: JAMES WILLIAMS
Contact address: 163 PLEASANT ST
NEW BEDFORD, MA 02740
Contact country: US
Contact telephone: (508) 994-9611
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: MORSE CUTTING TOOLS
Owner/operator address: 163 PLEASANT ST
NEW BEDFORD, MA 02740
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private

MORSE CUTTING TOOLS (Continued) **1000378887**

Owner/Operator Type: Operator
Owner/Op start date: 03/01/1990
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
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 08/18/1980
Facility name: MORSE TOOL INC
Classification: Not a generator, verified

Date form received by agency: 08/18/1980
Facility name: MORSE TOOL INC
Classification: Not a generator, verified

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D005
Waste name: BARIUM

Waste code: D008
Waste name: LEAD

Waste code: F001
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, 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.

MORSE CUTTING TOOLS (Continued) **1000378887**

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 LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: K069
Waste name: EMISSION CONTROL DUST/SLUDGE FROM SECONDARY LEAD SMELTING. (NOTE: THIS LISTING IS STAYED ADMINISTRATIVELY FOR SLUDGE GENERATED FROM SECONDARY ACID SCRUBBER SYSTEMS. THE STAY WILL REMAIN IN EFFECT UNTIL FURTHER ADMINISTRATIVE ACTION IS TAKEN. IF EPA TAKES FURTHER ACTION EFFECTING THIS STAY, EPA WILL PUBLISH A NOTICE OF THE ACTION IN THE FEDERAL REGISTER.

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 06/27/1990
Date achieved compliance: 07/01/1992
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

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 11/25/1986
Date achieved compliance: 04/09/1987
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/30/1986
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: 06/21/1985
Date achieved compliance: 02/27/1992
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/21/1985
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

MORSE CUTTING TOOLS (Continued) **1000378887**

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: 06/21/1985
Date achieved compliance: 02/27/1992
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

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 02/25/1985
Date achieved compliance: 09/10/1985
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/28/1985
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: 07/01/1992
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/03/1992
Evaluation: FOLLOW-UP INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/27/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/27/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 07/01/1992
Evaluation lead agency: State

MORSE CUTTING TOOLS (Continued) **1000378887**

Evaluation date: 04/09/1987
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/25/1986
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Generators - General
Date achieved compliance: 04/09/1987
Evaluation lead agency: State

Evaluation date: 06/21/1985
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Generators - General
Date achieved compliance: 02/27/1992
Evaluation lead agency: State

Evaluation date: 02/25/1985
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/25/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 09/10/1985
Evaluation lead agency: State

FINDS:

Registry ID: 110001949606

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.

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

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.

MORSE CUTTING TOOLS (Continued) **1000378887**

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

SHWS:

Facility ID:	4-0001203
Release Town:	NEW BEDFORD
Notification Date:	07/15/1992
Category:	NONE
Associated ID:	4-0001203
Compliance Status:	**Tier 1B, A site/release where an NRS score of less than 550 and equal t or greater than 450. These sites/releases require a permit and the response actions may be performed under the supervision of a Licensed Site Professional (LSP) without prior DEP approval, unless such an approval is specifically required by DEP.**
Status Date:	11/27/2000
Phase:	Not reported
Response Action Outcome Class:	Not reported
Oil Or Haz Material:	Oil

Chemical:

Chemical:	SLUDGE
Quantity:	Not reported
Chemical:	WATER
Quantity:	Not reported

Location:

Location Type:	INDUSTRIAL

Source:

Source Type:	UNKNOWN

Action:

Action Type:	BWS02
Action Stat:	PREAPP
Action Date:	Not reported
Response Action Outcome:	Not reported
Action Type:	BWS20
Action Stat:	APPROV
Action Date:	Not reported
Response Action Outcome:	Not reported
Action Type:	C&E
Action Stat:	RFI
Action Date:	12/23/2009
Response Action Outcome:	Not reported
Action Type:	AUDCOM
Action Stat:	NOA
Action Date:	12/23/2009
Response Action Outcome:	Not reported

MORSE CUTTING TOOLS (Continued) **1000378887**

Action Type: C&E
Action Stat: INTLET
Action Date: 12/23/2009
Response Action Outcome: Not reported

Action Type: Partial Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 10/14/2009
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Completion Statement Received
Action Date: 06/03/2008
Response Action Outcome: Not reported

Action Type: Partial Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/03/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 12/21/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 06/21/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 01/03/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINI
Action Date: 01/03/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 07/03/2006
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 07/03/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 04/14/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Legal Notice Published

MORSE CUTTING TOOLS (Continued) **1000378887**

Action Date: 04/12/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 12/28/2005
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 12/28/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/22/2005
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 06/22/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 12/23/2004
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 12/23/2004
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/24/2004
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 06/24/2004
Response Action Outcome: Not reported

Action Type: AUDCOM
Action Stat: NAFNVD
Action Date: 04/22/2004
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Level II - Audit Inspection
Action Date: 04/22/2004
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 03/18/2004
Response Action Outcome: Not reported

MORSE CUTTING TOOLS (Continued) **1000378887**

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 12/30/2003
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 12/30/2003
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 09/11/2003
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/20/2003
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 05/27/2003
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Level I - Technical Screen Audit
Action Date: 01/16/2003
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 12/19/2002
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 12/16/2002
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 09/17/2002
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/20/2002
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 12/18/2001
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Completion Statement Received

MORSE CUTTING TOOLS (Continued) **1000378887**

Action Date: 12/18/2001
Response Action Outcome: Not reported

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 12/18/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Approval of Plan
Action Date: 07/30/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/22/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 06/12/2001
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREFF
Action Date: 06/06/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Approval of Plan
Action Date: 02/26/2001
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 11/27/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 1B Classification
Action Date: 11/27/2000
Response Action Outcome: Not reported

Action Type: Partial Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 12/30/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVTC
Action Date: 10/27/1999
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 10/18/1999
Response Action Outcome: Not reported

MORSE CUTTING TOOLS (Continued) **1000378887**

Action Type: PIP
Action Stat: PIPDLY
Action Date: 05/14/1999
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 12/17/1998
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/05/1997
Response Action Outcome: Not reported

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 08/05/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/05/1997
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: LSPFA
Action Date: 08/05/1997
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: RFI
Action Date: 09/24/1996
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 07/15/1992
Response Action Outcome: Not reported

UST:
Facility ID: 3406

Facility:
Owner Id: 4590
Owner: MORSE CUTTING TOOLS
Owner Address: 163 PLEASANT ST
Owner City,St,Zip: NEW BEDFORD, MA 02742
Telephone: (617) 994-9611
Description: Other
Fire Dept. ID: 5201
Date of Inspection: Not reported
Inspector: Not reported
Overfill Prevention: Not reported
Spill Prevention: Not reported

MORSE CUTTING TOOLS (Continued) **1000378887**

Tank ID:	1
Tank Status:	**Removed**
Tank Useage:	Not reported
Tank Material:	Steel
Tank Contents:	Not reported
Tank Leak Detection:	Not reported
Pipe Material:	Not reported
Pipe Container:	Not reported
Pipe Leak Detection:	Not reported
Serial Number:	Not reported
Aboveground:	No
Capacity:	50
Contents:	Gasoline

Tank ID:	2
Tank Status:	**Removed**
Tank Useage:	Not reported
Tank Material:	Steel
Tank Contents:	Not reported
Tank Leak Detection:	Not reported
Pipe Material:	Not reported
Pipe Container:	Not reported
Pipe Leak Detection:	Not reported
Serial Number:	Not reported
Aboveground:	No
Capacity:	500
Contents:	Not reported

Tank ID:	3
Tank Status:	**Removed**
Tank Useage:	Not reported
Tank Material:	Steel
Tank Contents:	Not reported
Tank Leak Detection:	Not reported
Pipe Material:	Not reported
Pipe Container:	Not reported
Pipe Leak Detection:	Not reported
Serial Number:	Not reported
Aboveground:	No
Capacity:	10000
Contents:	Not reported

MA Spills:

Facility ID:	0000	Spill ID:	S88-0743
Staff Lead:	BEGLEY, J	Date Entered:	19890108
Last Entered:	19890108	First Response:	19881122
Spill Date:	19881122	Spill Time:	10:27PM
Report Date:	19881122	Report Time:	11:00
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	VIRGIN	Contam Soil:	Not reported
Env Impact:	Not reported	Other Impact:	Not reported
Material:	MISCELLANEOUS OIL	Other Material:	Not reported
Qty Reported:	51-100	Qty Actual:	51-100
Qty Reported:	GALLONS	Qty Actual:	GALLONS
CAS No:	Not reported	PCB Lev (ppm):	Not reported

MORSE CUTTING TOOLS (Continued) **1000378887**

Source:	OTHER SOURCE >	Other Source:	LINE
Incident:	RUPTURE	Other Incdnt:	Not reported
Cleanup Type:	Not reported	Contractor:	NOT USED
Referral:	NO	LUST Elig:	Not reported
Report Prep:	Not reported	Category:	Not reported
Notifier:	Not reported		
Notif Tel:	Not reported		
Days/Close:	-1		

Facility ID:	4-1203	Spill ID:	S92-0124
Staff Lead:	MORAN, M	Date Entered:	Not reported
Last Entered:	19920311	First Response:	19920227
Spill Date:	19920227	Spill Time:	Not reported
Report Date:	19920227	Report Time:	01:00PM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	WASTE	Contam Soil:	Not reported
Env Impact:	----------	Other Impact:	Not reported
Material:	WASTE OIL	Other Material:	Not reported
Qty Reported:	UNKNOWN	Qty Actual:	UNKNOWN
Qty Reported:	GALLONS	Qty Actual:	GALLONS
CAS No:	Not reported	PCB Lev (ppm):	----------
Source:	OTHER SOURCE >	Other Source:	ABANDONED
Incident:	OTHER RELEASE >	Other Incdnt:	BUILDING
Cleanup Type:	---	Contractor:	NOT USED
Referral:	SA	LUST Elig:	NO
Report Prep:	Not reported	Category:	Not reported
Notifier:	LT GAUTHIER/FD		
Notif Tel:	Not reported		
Days/Close:	0		

Facility ID:	0000	Spill ID:	S90-0837
Staff Lead:	PINAUD, L	Date Entered:	19920226
Last Entered:	19930917	First Response:	19901113
Spill Date:	19901113	Spill Time:	Not reported
Report Date:	19901113	Report Time:	09:45AM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	WASTE	Contam Soil:	Not reported
Env Impact:	SOIL	Other Impact:	Not reported
Material:	OTHER MATERIAL -->	Other Material:	CUTTING OIL
Qty Reported:	UNKNOWN	Qty Actual:	UNKNOWN
Qty Reported:	----------	Qty Actual:	----------
CAS No:	Not reported	PCB Lev (ppm):	----------
Source:	OTHER SOURCE >	Other Source:	UNKNOWN
Incident:	DUMPING	Other Incdnt:	Not reported
Cleanup Type:	---	Contractor:	NOT USED
Referral:	NO	LUST Elig:	---
Report Prep:	Not reported	Category:	Not reported
Notifier:	JIM WILLIAMS		
Notif Tel:	Not reported		
Days/Close:	0		

Facility ID:	0000	Spill ID:	S93-0620
Staff Lead:	OTHER	Date Entered:	19940224
Last Entered:	19940224	First Response:	19930825
Spill Date:	Not reported	Spill Time:	Not reported
Report Date:	19930825	Report Time:	01:30
Case Closed:	YES	Mat Type:	UNKNOWN

MORSE CUTTING TOOLS (Continued) **1000378887**

Virgin Waste:	------	Contam Soil:	Not reported
Env Impact:	SOIL	Other Impact:	Not reported
Material:	OTHER MATERIAL -->	Other Material:	CUTTING OIL
Qty Reported:	----------	Qty Actual:	UNKNOWN
Qty Reported:	----------	Qty Actual:	----------
CAS No:	Not reported	PCB Lev (ppm):	----------
Source:	OTHER SOURCE >	Other Source:	UNKNOWN
Incident:	OTHER RELEASE >	Other Incdnt:	UNKNOWN
Cleanup Type:	---	Contractor:	NOT USED
Referral:	NO	LUST Elig:	NO
Report Prep:	Not reported	Category:	Not reported
Notifier:	BILL BACKBURN/NB HEALTH DEPT		
Notif Tel:	Not reported		
Days/Close:	0		

Release:

Facility ID:	4-0001203
Primary ID:	4-0001203
Official City:	NEW BEDFORD
Notification:	07/15/1992
Category:	NONE
Facility Status:	TIER1B
Status Date:	11/27/2000
Phase:	Not reported
Rspns Actn Outcome Class:	Not reported
Oil / Haz Material Type:	Oil

Action:

Action Type:	BWS02
Action Stat:	PREAPP
Action Date:	Not reported
Response Action Outcome:	Not reported
Action Type:	BWS20
Action Stat:	APPROV
Action Date:	Not reported
Response Action Outcome:	Not reported
Action Type:	C&E
Action Stat:	RFI
Action Date:	12/23/2009
Response Action Outcome:	Not reported
Action Type:	AUDCOM
Action Stat:	NOA
Action Date:	12/23/2009
Response Action Outcome:	Not reported
Action Type:	C&E
Action Stat:	INTLET
Action Date:	12/23/2009
Response Action Outcome:	Not reported
Action Type:	Partial Response Action Outcome
Action Stat:	Level I - Technical Screen Audit
Action Date:	10/14/2009
Response Action Outcome:	Not reported

MORSE CUTTING TOOLS (Continued) **1000378887**

Action Type: Phase V
Action Stat: Completion Statement Received
Action Date: 06/03/2008
Response Action Outcome: Not reported

Action Type: Partial Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/03/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 12/21/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 06/21/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 01/03/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINI
Action Date: 01/03/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 07/03/2006
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 07/03/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 04/14/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 04/12/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 12/28/2005
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD

MORSE CUTTING TOOLS (Continued) **1000378887**

Action Date: 12/28/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/22/2005
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 06/22/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 12/23/2004
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 12/23/2004
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/24/2004
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 06/24/2004
Response Action Outcome: Not reported

Action Type: AUDCOM
Action Stat: NAFNVD
Action Date: 04/22/2004
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Level II - Audit Inspection
Action Date: 04/22/2004
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 03/18/2004
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 12/30/2003
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 12/30/2003
Response Action Outcome: Not reported

MORSE CUTTING TOOLS (Continued) **1000378887**

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 09/11/2003
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/20/2003
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 05/27/2003
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Level I - Technical Screen Audit
Action Date: 01/16/2003
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 12/19/2002
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 12/16/2002
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 09/17/2002
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/20/2002
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 12/18/2001
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 12/18/2001
Response Action Outcome: Not reported

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 12/18/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Approval of Plan

MORSE CUTTING TOOLS (Continued) **1000378887**

Action Date: 07/30/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/22/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 06/12/2001
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREFF
Action Date: 06/06/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Approval of Plan
Action Date: 02/26/2001
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 11/27/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 1B Classification
Action Date: 11/27/2000
Response Action Outcome: Not reported

Action Type: Partial Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 12/30/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVTC
Action Date: 10/27/1999
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 10/18/1999
Response Action Outcome: Not reported

Action Type: PIP
Action Stat: PIPDLY
Action Date: 05/14/1999
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 12/17/1998
Response Action Outcome: Not reported

MORSE CUTTING TOOLS (Continued) **1000378887**

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/05/1997
Response Action Outcome: Not reported

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 08/05/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/05/1997
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: LSPFA
Action Date: 08/05/1997
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: RFI
Action Date: 09/24/1996
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 07/15/1992
Response Action Outcome: Not reported

Chemical:
Chemical: SLUDGE
Quantity: Not reported
Chemical: WATER
Quantity: Not reported

Location:
Location Type: INDUSTRIAL

Source:
Source Type: UNKNOWN

Action:
Action Type: BWS02
Action Stat: PREAPP
Action Date: Not reported
Response Action Outcome: Not reported

Action Type: BWS20
Action Stat: APPROV
Action Date: Not reported
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: RFI
Action Date: 12/23/2009
Response Action Outcome: Not reported

MORSE CUTTING TOOLS (Continued) **1000378887**

Action Type: AUDCOM
Action Stat: NOA
Action Date: 12/23/2009
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: INTLET
Action Date: 12/23/2009
Response Action Outcome: Not reported

Action Type: Partial Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 10/14/2009
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Completion Statement Received
Action Date: 06/03/2008
Response Action Outcome: Not reported

Action Type: Partial Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/03/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 12/21/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 06/21/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 01/03/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINI
Action Date: 01/03/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 07/03/2006
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 07/03/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREXT

MORSE CUTTING TOOLS (Continued) **1000378887**

Action Date: 04/14/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 04/12/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 12/28/2005
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 12/28/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/22/2005
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 06/22/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 12/23/2004
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 12/23/2004
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/24/2004
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 06/24/2004
Response Action Outcome: Not reported

Action Type: AUDCOM
Action Stat: NAFNVD
Action Date: 04/22/2004
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Level II - Audit Inspection
Action Date: 04/22/2004
Response Action Outcome: Not reported

MORSE CUTTING TOOLS (Continued) **1000378887**

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 03/18/2004
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 12/30/2003
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 12/30/2003
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 09/11/2003
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/20/2003
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 05/27/2003
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Level I - Technical Screen Audit
Action Date: 01/16/2003
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 12/19/2002
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 12/16/2002
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 09/17/2002
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/20/2002
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received

MORSE CUTTING TOOLS (Continued) **1000378887**

Action Date: 12/18/2001
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 12/18/2001
Response Action Outcome: Not reported

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 12/18/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Approval of Plan
Action Date: 07/30/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/22/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 06/12/2001
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREFF
Action Date: 06/06/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Approval of Plan
Action Date: 02/26/2001
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 11/27/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 1B Classification
Action Date: 11/27/2000
Response Action Outcome: Not reported

Action Type: Partial Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 12/30/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVTC
Action Date: 10/27/1999
Response Action Outcome: Not reported

MORSE CUTTING TOOLS (Continued) **1000378887**

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 10/18/1999
Response Action Outcome: Not reported

Action Type: PIP
Action Stat: PIPDLY
Action Date: 05/14/1999
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 12/17/1998
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/05/1997
Response Action Outcome: Not reported

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 08/05/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/05/1997
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: LSPFA
Action Date: 08/05/1997
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: RFI
Action Date: 09/24/1996
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 07/15/1992
Response Action Outcome: Not reported

FINASS2:
Facility Id: 3406
Description: Other
Work Phone: (617) 994-9611
Financial Resp: Normal

G32 WNW 1/2-1 0.515 mi. 2719 ft. | **MORSE CUTTING TOOLS FMR**
163 PLEASANT ST
NEW BEDFORD, MA 02740 | **SHWS RELEASE** | **S103546637 N/A**

Site 2 of 2 in cluster G

Relative: Higher

Actual: 14 ft.

SHWS:

Facility ID:	4-0014221
Release Town:	NEW BEDFORD
Notification Date:	09/25/1998
Category:	120 DY
Associated ID:	4-0001203
Compliance Status:	**Tier 1B, A site/release where an NRS score of less than 550 and equal t or greater than 450. These sites/releases require a permit and the response actions may be performed under the supervision of a Licensed Site Professional (LSP) without prior DEP approval, unless such an approval is specifically required by DEP.**
Status Date:	11/27/2000
Phase:	Not reported
Response Action Outcome Class:	Not reported
Oil Or Haz Material:	Not reported

Chemical:

Chemical:	AROMATICS
Quantity:	3400 parts per million
Chemical:	ALIPHATICS
Quantity:	8700 parts per million
Chemical:	ALIPHATICS
Quantity:	1200 parts per million

Location:

Location Type:	Not reported

Source:

Source Type:	Not reported

Action:

Action Type:	Tier Classification
Action Stat:	PEREXT
Action Date:	04/14/2006
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	Legal Notice Published
Action Date:	04/12/2006
Response Action Outcome:	Not reported
Action Type:	Immediate Response
Action Stat:	Status Report Received
Action Date:	06/20/2003
Response Action Outcome:	Not reported
Action Type:	Immediate Response
Action Stat:	Status Report Received
Action Date:	12/19/2002
Response Action Outcome:	Not reported
Action Type:	Immediate Response
Action Stat:	Status Report Received
Action Date:	06/20/2002
Response Action Outcome:	Not reported

MORSE CUTTING TOOLS FMR (Continued) **S103546637**

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 12/18/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/22/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 06/12/2001
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREFF
Action Date: 06/06/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 02/05/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 12/21/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 1B Classification
Action Date: 11/27/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 11/27/2000
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/19/2000
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 12/20/1999
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 10/27/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVTC

MORSE CUTTING TOOLS FMR (Continued) **S103546637**

Action Date: 10/27/1999
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 10/27/1999
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 06/18/1999
Response Action Outcome: Not reported

Action Type: PIP
Action Stat: PIPMTG
Action Date: 05/14/1999
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 12/22/1998
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/27/1998
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 09/25/1998
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 09/25/1998
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/05/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/05/1997
Response Action Outcome: Not reported

Release:
Facility ID: 4-0014221
Primary ID: 4-0001203
Official City: NEW BEDFORD
Notification: 09/25/1998
Category: 120 DY
Facility Status: TIER1B
Status Date: 11/27/2000

MORSE CUTTING TOOLS FMR (Continued) **S103546637**

Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 04/14/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 04/12/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/20/2003
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 12/19/2002
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/20/2002
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 12/18/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/22/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 06/12/2001
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREFF
Action Date: 06/06/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 02/05/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 12/21/2000

MORSE CUTTING TOOLS FMR (Continued) **S103546637**

Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 1B Classification
Action Date: 11/27/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 11/27/2000
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/19/2000
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 12/20/1999
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 10/27/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVTC
Action Date: 10/27/1999
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 10/27/1999
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 06/18/1999
Response Action Outcome: Not reported

Action Type: PIP
Action Stat: PIPMTG
Action Date: 05/14/1999
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 12/22/1998
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/27/1998
Response Action Outcome: Not reported

MORSE CUTTING TOOLS FMR (Continued) **S103546637**

Action Type: RNF
Action Stat: REPORT
Action Date: 09/25/1998
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 09/25/1998
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/05/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/05/1997
Response Action Outcome: Not reported

Chemical:
Chemical: AROMATICS
Quantity: 3400 parts per million
Chemical: ALIPHATICS
Quantity: 8700 parts per million
Chemical: ALIPHATICS
Quantity: 1200 parts per million

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 04/14/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 04/12/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/20/2003
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 12/19/2002
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/20/2002

MORSE CUTTING TOOLS FMR (Continued) **S103546637**

Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 12/18/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/22/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 06/12/2001
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREFF
Action Date: 06/06/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 02/05/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 12/21/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 1B Classification
Action Date: 11/27/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 11/27/2000
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/19/2000
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 12/20/1999
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 10/27/1999
Response Action Outcome: Not reported

MORSE CUTTING TOOLS FMR (Continued) **S103546637**

Action Type: Tier Classification
Action Stat: LNKVTC
Action Date: 10/27/1999
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 10/27/1999
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 06/18/1999
Response Action Outcome: Not reported

Action Type: PIP
Action Stat: PIPMTG
Action Date: 05/14/1999
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 12/22/1998
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/27/1998
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 09/25/1998
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 09/25/1998
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/05/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/05/1997
Response Action Outcome: Not reported

33
NW
1/2-1
0.530 mi.
2798 ft.

Relative:
Higher

Actual:
13 ft.

NEW BEDFORD GAS AND EDISON LIGHT CO
1ST STREET AND COFFIN
NEW BEDFORD, MA 02740

Manufactured Gas Plants

1008408465
N/A

34
SSE
1/2-1
0.534 mi.
2817 ft.

Relative:
Equal

Actual:
0 ft.

ALLEY WAY OF BILDING
21 COVE ST
NEW BEDFORD, MA

SHWS
RELEASE

S106132349
N/A

SHWS:

Facility ID:	4-0018076
Release Town:	NEW BEDFORD
Notification Date:	10/14/2003
Category:	TWO HR
Associated ID:	Not reported
Compliance Status:	**Release Action Outcome**
Status Date:	01/28/2004
Phase:	Not reported
Response Action Outcome Class:	A1
Oil Or Haz Material:	Oil

Chemical:

Chemical:	HEATING OIL
Quantity:	200 gallons

Location:

Location Type:	INDUSTRIAL

Source:

Source Type:	PIPE

Action:

Action Type:	Response Action Outcome
Action Stat:	RAO Statement Received
Action Date:	01/28/2004
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:	Immediate Response
Action Stat:	Completion Statement Received
Action Date:	01/28/2004
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:	Immediate Response
Action Stat:	Written Plan Received
Action Date:	01/28/2004
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 Stat:	REPORT
Action Date:	01/28/2004
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

ALLEY WAY OF BILDING (Continued) **S106132349**

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/26/2003
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
Action Stat: REPORT
Action Date: 10/14/2003
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 Stat: Oral Approval of Plan
Action Date: 10/14/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Facility ID: 4-0018076
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 10/14/2003
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 01/28/2004
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil / Haz Material Type: Oil

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 01/28/2004
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: Immediate Response
Action Stat: Completion Statement Received
Action Date: 01/28/2004
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: Immediate Response
Action Stat: Written Plan Received
Action Date: 01/28/2004
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 Stat: REPORT
Action Date: 01/28/2004
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: Notice of Responsibility

ALLEY WAY OF BILDING (Continued) **S106132349**

Action Stat: ISSUED
Action Date: 11/26/2003
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
Action Stat: REPORT
Action Date: 10/14/2003
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 Stat: Oral Approval of Plan
Action Date: 10/14/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:
Chemical: HEATING OIL
Quantity: 200 gallons

Location:
Location Type: INDUSTRIAL

Source:
Source Type: PIPE

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 01/28/2004
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: Immediate Response
Action Stat: Completion Statement Received
Action Date: 01/28/2004
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: Immediate Response
Action Stat: Written Plan Received
Action Date: 01/28/2004
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 Stat: REPORT
Action Date: 01/28/2004
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/26/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

ALLEY WAY OF BILDING (Continued) **S106132349**

Action Type:	Release
Action Stat:	REPORT
Action Date:	10/14/2003
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 Stat:	Oral Approval of Plan
Action Date:	10/14/2003
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

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35 South 1/2-1 0.555 mi. 2932 ft.

DARTMOUTH FINISHING
45 COVE STREET
NEW BEDFORD, MA 02744

CERC-NFRAP **1000520652**
SHWS **MAD985275015**
RELEASE

Relative: Equal

Actual: 0 ft.

CERC-NFRAP:

Site ID:	0102899
Federal Facility:	Not a Federal Facility
NPL Status:	Not on the NPL
Non NPL Status:	Removal Only Site (No Site Assessment Work Needed)

CERCLIS-NFRAP Site Contact Name(s):

Contact Title:	PRESIDENT
Contact Name:	NICHOLAS GESKOS
Contact Tel:	Not reported

Contact Title:	OSC
Contact Name:	RICHARD HAWORTH
Contact Tel:	(617) 918-1229

Contact Title:	Site Assessment Manager
Contact Name:	Nancy Smith
Contact Tel:	(617) 918-1436

Program Priority:

Description:	Environmental Justice Indicator

CERCLIS-NFRAP Assessment History:

Action:	REMOVAL ASSESSMENT
Date Started:	01/21/1997
Date Completed:	01/29/1997
Priority Level:	Not reported

Action:	Notice Letters Issued
Date Started:	Not reported
Date Completed:	02/20/1997
Priority Level:	Not reported

Action:	AM
Date Started:	Not reported
Date Completed:	03/06/1997
Priority Level:	Not reported

DARTMOUTH FINISHING (Continued) **1000520652**

Action: DC
Date Started: Not reported
Date Completed: 03/06/1997
Priority Level: Not reported

Action: Public Notice Published
Date Started: Not reported
Date Completed: 05/22/1997
Priority Level: Not reported

Action: ADMINISTRATIVE RECORDS
Date Started: 05/22/1997
Date Completed: Not reported
Priority Level: Admin Record Compiled for a Removal Event

Action: REMOVAL
Date Started: 03/16/1997
Date Completed: 07/17/1997
Priority Level: Cleaned up

Action: ISSUE REQ LTTRS (104e)
Date Started: Not reported
Date Completed: 02/16/2000
Priority Level: Not reported

Action: ISSUE REQ LTTRS (104e)
Date Started: Not reported
Date Completed: 03/02/2000
Priority Level: Not reported

Action: ISSUE REQ LTTRS (104e)
Date Started: Not reported
Date Completed: 03/08/2000
Priority Level: Not reported

Action: IQ
Date Started: Not reported
Date Completed: 04/12/2000
Priority Level: Not reported

Action: IY
Date Started: Not reported
Date Completed: 04/18/2000
Priority Level: Not reported

Action: ISSUE REQ LTTRS (104e)
Date Started: Not reported
Date Completed: 04/19/2000
Priority Level: Not reported

Action: NON-NPL PRP SEARCH
Date Started: 02/21/1997
Date Completed: 07/07/2000
Priority Level: Not reported

Action: DD
Date Started: Not reported

DARTMOUTH FINISHING (Continued) **1000520652**

Date Completed: 07/07/2000
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 10/25/2002
Priority Level: Not reported

Action: LA
Date Started: Not reported
Date Completed: Not reported
Priority Level: Not reported

SHWS:
Facility ID: 4-0012810
Release Town: NEW BEDFORD
Notification Date: 01/21/1997
Category: TWO HR
Associated ID: Not reported
Compliance Status: Release Action Outcome
Status Date: 08/31/2004
Phase: Not reported
Response Action Outcome Class: A2
Oil Or Haz Material: Hazardous Material

Chemical:
Chemical: HAZARDOUS WASTE
Quantity: 11000 gallons

Location:
Location Type: INDUSTRIAL

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 09/03/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/31/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 08/31/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: ACOP
Action Date: 02/11/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

DARTMOUTH FINISHING (Continued) **1000520652**

Action Type:	Immediate Response
Action Stat:	Status Report Received
Action Date:	01/20/2004
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	C&E
Action Stat:	NOEC
Action Date:	10/29/2003
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	RLFA
Action Stat:	FLDRUN
Action Date:	07/18/2003
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	RLFA
Action Stat:	FLDRUN
Action Date:	07/14/2003
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Immediate Response
Action Stat:	Level I - Technical Screen Audit
Action Date:	07/03/2003
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Immediate Response
Action Stat:	Status Report Received
Action Date:	06/27/2003
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Immediate Response
Action Stat:	Status Report Received
Action Date:	12/20/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	RLFA
Action Stat:	FLDRUN
Action Date:	11/27/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	RLFA
Action Stat:	FOLOFF
Action Date:	09/10/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Immediate Response
Action Stat:	Written Plan Received
Action Date:	08/22/2002

DARTMOUTH FINISHING (Continued) **1000520652**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 08/22/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: UAO
Action Date: 07/23/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: PAN
Action Date: 07/23/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: NON
Action Date: 05/29/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: NON
Action Date: 03/05/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 08/28/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 08/27/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 08/27/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 08/26/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

DARTMOUTH FINISHING (Continued) **1000520652**

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 07/28/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 07/18/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 07/17/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 07/16/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/14/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: NORA
Action Date: 06/14/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: INTLET
Action Date: 06/14/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/04/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: NORA
Action Date: 06/04/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 04/10/1997

DARTMOUTH FINISHING (Continued) **1000520652**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 01/21/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 01/21/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 4-0012810
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 01/21/1997
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 08/31/2004
Phase: Not reported
Rspns Actn Outcome Class: A2
Oil / Haz Material Type: Hazardous Material

Action:
Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 09/03/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/31/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 08/31/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: ACOP
Action Date: 02/11/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 01/20/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

DARTMOUTH FINISHING (Continued) **1000520652**

reduced to background.

Action Type: C&E
Action Stat: NOEC
Action Date: 10/29/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 07/18/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 07/14/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 07/03/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/27/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 12/20/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 11/27/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 09/10/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 08/22/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF

DARTMOUTH FINISHING (Continued) **1000520652**

Action Stat: REPORT
Action Date: 08/22/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: UAO
Action Date: 07/23/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: PAN
Action Date: 07/23/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: NON
Action Date: 05/29/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: NON
Action Date: 03/05/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 08/28/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 08/27/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 08/27/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 08/26/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 07/28/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

DARTMOUTH FINISHING (Continued) **1000520652**

reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 07/18/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 07/17/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 07/16/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/14/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: NORA
Action Date: 06/14/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: INTLET
Action Date: 06/14/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/04/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: NORA
Action Date: 06/04/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 04/10/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA

DARTMOUTH FINISHING (Continued) **1000520652**

Action Stat: FLDD1A
Action Date: 01/21/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 01/21/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: HAZARDOUS WASTE
Quantity: 11000 gallons

Location:
Location Type: INDUSTRIAL

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 09/03/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/31/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 08/31/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: ACOP
Action Date: 02/11/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 01/20/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: NOEC
Action Date: 10/29/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

DARTMOUTH FINISHING (Continued) **1000520652**

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 07/18/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 07/14/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 07/03/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/27/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 12/20/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 11/27/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 09/10/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 08/22/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 08/22/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: UAO
Action Date: 07/23/2002

DARTMOUTH FINISHING (Continued) **1000520652**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: PAN
Action Date: 07/23/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: NON
Action Date: 05/29/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: NON
Action Date: 03/05/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 08/28/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 08/27/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 08/27/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 08/26/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 07/28/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 07/18/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

DARTMOUTH FINISHING (Continued) **1000520652**

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 07/17/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 07/16/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/14/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: NORA
Action Date: 06/14/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: INTLET
Action Date: 06/14/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/04/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: NORA
Action Date: 06/04/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 04/10/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 01/21/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 01/21/1997

DARTMOUTH FINISHING (Continued) **1000520652**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

36
South
1/2-1
0.571 mi.
3016 ft.

Relative:
Higher

Actual:
1 ft.

BERKSHIRE HATHAWAY INC
97 COVE ST
NEW BEDFORD, MA 02744

RCRA-CESQG **1000272535**
FINDS **MAD001024314**
LUST
UST
RELEASE
INST CONTROL
FINANCIAL ASSURANCE

RCRA-CESQG:

Date form received by agency:	08/18/1980
Facility name:	BERKSHIRE HATHAWAY INC
Facility address:	97 COVE ST NEW BEDFORD, MA 02744
EPA ID:	MAD001024314
Mailing address:	PO BOX C904 NEW BEDFORD, MA 02741
Contact:	KIMBALL-A BAKER JR
Contact address:	PO BOX C904 NEW BEDFORD, MA 02741
Contact country:	US
Contact telephone:	(508) 997-4561
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:	BERKSHIRE HATHAWAY INC
Owner/operator address:	PO BOX C904 NEW BEDFORD, MA 02741
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	06/15/1993
Owner/Op end date:	Not reported

Owner/operator name:	BERKSHIRE HATHAWAY GREIGE MILL DIV
Owner/operator address:	PO BOX C904

BERKSHIRE HATHAWAY INC (Continued) **1000272535**

NEW BEDFORD, MA 02741
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
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 08/18/1980
Facility name: BERKSHIRE HATHAWAY INC
Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: F001
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, 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: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED 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

BERKSHIRE HATHAWAY INC (Continued) **1000272535**

NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED 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: U002
Waste name: ACETONE (I)

Waste code: U080
Waste name: METHANE, DICHLORO-

Waste code: U154
Waste name: METHANOL (I)

Waste code: U210
Waste name: ETHENE, TETRACHLORO-

Waste code: U226
Waste name: ETHANE, 1,1,1-TRICHLORO-

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 05/01/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110001939868

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.

MA-EPICS - Massachussetts Environmental Protection Integrated Computer System

BERKSHIRE HATHAWAY INC (Continued) **1000272535**

LUST:

Facility:

Facility ID:	4-0015117
Facility Status:	**Release Action Outcome**
Status Date:	10/21/2002
Source Type:	UST
Release Town:	NEW BEDFORD
Notification Date:	11/05/1999
Category:	72 HR
Associated ID:	Not reported
Phase:	PHASE III
Rspns Actn Outcome Class:	A3
Oil Or Haz Material:	Oil

Chemical:

Chemical:	#6 FUEL OIL
Quantity:	4 inches

Location:

Location Type:	COMMERCIAL

Source:

Source Type:	UST

Action:

Action Type:	AUDCOM
Action Stat:	NAFNON
Action Date:	10/17/2006
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:	Activity and Use Limitation
Action Stat:	Confirmatory AUL received
Action Date:	10/06/2006
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:	RLFA
Action Stat:	FLDRAN
Action Date:	08/01/2006
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:	AUDCOM
Action Stat:	NOA
Action Date:	12/26/2003
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
Action Stat:	Level I - Technical Screen Audit
Action Date:	01/28/2003
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

BERKSHIRE HATHAWAY INC (Continued) **1000272535**

been implemented.

Action Type: Activity and Use Limitation
Action Stat: Level I - Technical Screen Audit
Action Date: 01/23/2003
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 Stat: Transmittal Received
Action Date: 10/21/2002
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
Action Stat: RAO Statement Received
Action Date: 10/21/2002
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 II
Action Stat: Completion Statement Received
Action Date: 10/21/2002
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 Stat: Completion Statement Received
Action Date: 11/06/2000
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 Stat: Tier 2 Classification
Action Date: 11/06/2000
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 I
Action Stat: Completion Statement Received
Action Date: 11/06/2000
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 II
Action Stat: Scope of Work Received
Action Date: 11/06/2000
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.

BERKSHIRE HATHAWAY INC (Continued) **1000272535**

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 11/06/2000
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: Release Abatement Measure
Action Stat: Fee Received
Action Date: 04/20/2000
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: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 04/18/2000
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.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/31/2000
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: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 11/08/1999
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 Stat: FOLOFF
Action Date: 11/08/1999
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
Action Stat: REPORT
Action Date: 11/05/1999
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.

UST:
Facility ID: 3358

Facility:
Owner Id: 679
Owner: BERKSHIRE HATHAWAY INC
Owner Address: 97 COVE ST

BERKSHIRE HATHAWAY INC (Continued) **1000272535**

Owner City,St,Zip: NEW BEDFORD, MA 02744
Telephone: (508) 999-9900
Description: Industrial
Fire Dept. ID: 5201
Date of Inspection: Not reported
Inspector: Not reported
Overfill Prevention: Not reported
Spill Prevention: Not reported

Tank ID: 1
Tank Status: Removed
Tank Useage: Not reported
Tank Material: Not reported
Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Not reported
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 50000
Contents: Fuel Oil

Tank ID: 2
Tank Status: Removed
Tank Useage: Not reported
Tank Material: Not reported
Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Not reported
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 50000
Contents: Fuel Oil

Release:
Facility ID: 4-0015117
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 11/05/1999
Category: 72 HR
Facility Status: Response Action Outcome
Status Date: 10/21/2002
Phase: PHASE III
Rspns Actn Outcome Class: A3
Oil / Haz Material Type: Oil

Action:
Action Type: AUDCOM
Action Stat: NAFNON
Action Date: 10/17/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

BERKSHIRE HATHAWAY INC (Continued) **1000272535**

been implemented.

Action Type: Activity and Use Limitation
Action Stat: Confirmatory AUL received
Action Date: 10/06/2006
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: RLFA
Action Stat: FLDRAN
Action Date: 08/01/2006
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: AUDCOM
Action Stat: NOA
Action Date: 12/26/2003
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
Action Stat: Level I - Technical Screen Audit
Action Date: 01/28/2003
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 Stat: Level I - Technical Screen Audit
Action Date: 01/23/2003
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 Stat: Transmittal Received
Action Date: 10/21/2002
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
Action Stat: RAO Statement Received
Action Date: 10/21/2002
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 II
Action Stat: Completion Statement Received
Action Date: 10/21/2002
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.

BERKSHIRE HATHAWAY INC (Continued) **1000272535**

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 11/06/2000
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 Stat: Tier 2 Classification
Action Date: 11/06/2000
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 I
Action Stat: Completion Statement Received
Action Date: 11/06/2000
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 II
Action Stat: Scope of Work Received
Action Date: 11/06/2000
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 Stat: Transmittal Received
Action Date: 11/06/2000
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: Release Abatement Measure
Action Stat: Fee Received
Action Date: 04/20/2000
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: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 04/18/2000
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.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/31/2000
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: Immediate Response

BERKSHIRE HATHAWAY INC (Continued) **1000272535**

Action Stat: Oral Approval of Plan
Action Date: 11/08/1999
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 Stat: FOLOFF
Action Date: 11/08/1999
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
Action Stat: REPORT
Action Date: 11/05/1999
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.

Chemical:
Chemical: #6 FUEL OIL
Quantity: 4 inches

Location:
Location Type: COMMERCIAL

Source:
Source Type: UST

Action:
Action Type: AUDCOM
Action Stat: NAFNON
Action Date: 10/17/2006
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: Activity and Use Limitation
Action Stat: Confirmatory AUL received
Action Date: 10/06/2006
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: RLFA
Action Stat: FLDRAN
Action Date: 08/01/2006
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: AUDCOM
Action Stat: NOA
Action Date: 12/26/2003
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.

BERKSHIRE HATHAWAY INC (Continued) **1000272535**

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 01/28/2003
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 Stat: Level I - Technical Screen Audit
Action Date: 01/23/2003
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 Stat: Transmittal Received
Action Date: 10/21/2002
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
Action Stat: RAO Statement Received
Action Date: 10/21/2002
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 II
Action Stat: Completion Statement Received
Action Date: 10/21/2002
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 Stat: Completion Statement Received
Action Date: 11/06/2000
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 Stat: Tier 2 Classification
Action Date: 11/06/2000
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 I
Action Stat: Completion Statement Received
Action Date: 11/06/2000
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 II

BERKSHIRE HATHAWAY INC (Continued) **1000272535**

Action Stat: Scope of Work Received
Action Date: 11/06/2000
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 Stat: Transmittal Received
Action Date: 11/06/2000
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: Release Abatement Measure
Action Stat: Fee Received
Action Date: 04/20/2000
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: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 04/18/2000
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.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/31/2000
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: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 11/08/1999
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 Stat: FOLOFF
Action Date: 11/08/1999
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
Action Stat: REPORT
Action Date: 11/05/1999
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.

BERKSHIRE HATHAWAY INC (Continued) **1000272535**

INST CONTROL:
Release Tracking Number: 4-0015117
Action Type: AUL
Action Stat: CONFRM
Action Date: 10/06/2006
Response Action Outcome: A3

Release Tracking Number: 4-0015117
Action Type: AUL
Action Stat: TSAUD
Action Date: 01/23/2003
Response Action Outcome: A3

Release Tracking Number: 4-0015117
Action Type: AUL
Action Stat: RECPT
Action Date: 10/21/2002
Response Action Outcome: A3

FINASS2:
Facility Id: 3358
Description: Industrial
Work Phone: (508) 999-9900
Financial Resp: Commercial, Normal

H37 **NO LOCATION AID** **SHWS** **S106954129**
NNW **180 MACARTHUR DR** **RELEASE** **N/A**
1/2-1 **NEW BEDFORD, MA**
0.605 mi.
3196 ft. **Site 1 of 8 in cluster H**

Relative:
Higher

Actual:
30 ft.

SHWS:
Facility ID: 4-0016574
Release Town: NEW BEDFORD
Notification Date: 09/17/2001
Category: TWO HR
Associated ID: Not reported
Compliance Status: **Release Action Outcome**
Status Date: 09/24/2002
Phase: Not reported
Response Action Outcome Class: B1
Oil Or Haz Material: Hazardous Material

Chemical:
Chemical: BENZENE
Quantity: 2000 parts per billion
Chemical: TETRACHLOROETHYLENE
Quantity: 28.3 parts per billion

Location:
Location Type: INDUSTRIAL

Source:
Source Type: UNKNOWN

Action:
Action Type: C&E
Action Stat: NON
Action Date: 02/19/2003

NO LOCATION AID (Continued) **S106954129**

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 10/03/2002
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 09/24/2002
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 07/30/2002
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 07/19/2002
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response
Action Stat: Imminent Hazard Evaluation Received
Action Date: 07/19/2002
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 01/15/2002
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 11/23/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 11/09/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response
Action Stat: Imminent Hazard Evaluation Received
Action Date: 11/09/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

NO LOCATION AID (Continued) **S106954129**

Action Type: RNF
Action Stat: REPORT
Action Date: 11/09/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/05/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release
Action Stat: REPORT
Action Date: 09/17/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 09/17/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Facility ID: 4-0014208
Release Town: NEW BEDFORD
Notification Date: 09/23/1998
Category: 120 DY
Associated ID: Not reported
Compliance Status: URAM
Status Date: 07/17/2009
Phase: PHASE IV
Response Action Outcome Class: Not reported
Oil Or Haz Material: Hazardous Material

Chemical:
Chemical: BENZENE, 1,3,5-TRIMETHYL-
Quantity: 230 parts per million
Chemical: ACENAPHTHYLENE
Quantity: 940 parts per million
Chemical: BENZ[A]ANTHRACENE
Quantity: 700 parts per million
Chemical: ANTHRACENE
Quantity: 1100 parts per million
Chemical: ACENAPHTHYLENE, 1,2-DIHYDRO
Quantity: 1800 parts per million
Chemical: BENZENE
Quantity: 180 parts per million
Chemical: 2-METHYLNAPHTHALENE
Quantity: 4400 parts per million

Location:
Location Type: PRIVPROP

Source:
Source Type: UNKNOWN

Action:

NO LOCATION AID (Continued) **S106954129**

Action Type: Utility-related Abatement Measure
Action Stat: Completion Statement Received
Action Date: 07/24/2009
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure
Action Stat: Notification of URAM Received
Action Date: 07/17/2009
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 03/14/2009
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: TSEVAL
Action Date: 10/10/2007
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 10/03/2002
Response Action Outcome: Not reported

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 07/29/2002
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 07/29/2002
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 07/19/2002
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Imminent Hazard Evaluation Received
Action Date: 07/19/2002
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 01/15/2002
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 11/09/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Imminent Hazard Evaluation Received

NO LOCATION AID (Continued) **S106954129**

Action Date: 11/09/2001
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 09/25/2001
Response Action Outcome: Not reported

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 09/25/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 07/13/2001
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 09/30/1999
Response Action Outcome: Not reported

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 09/30/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 09/30/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 09/30/1999
Response Action Outcome: Not reported

Action Type: PIP
Action Stat: Legal Notice Published
Action Date: 09/30/1999
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 03/23/1999
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 09/23/1998
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 09/23/1998
Response Action Outcome: Not reported

NO LOCATION AID (Continued) **S106954129**

Release:

Facility ID:	4-0014208
Primary ID:	Not reported
Official City:	NEW BEDFORD
Notification:	09/23/1998
Category:	120 DY
Facility Status:	URAM
Status Date:	07/17/2009
Phase:	PHASE IV
Rspns Actn Outcome Class:	Not reported
Oil / Haz Material Type:	Hazardous Material

Action:

Action Type:	Utility-related Abatement Measure
Action Stat:	Completion Statement Received
Action Date:	07/24/2009
Response Action Outcome:	Not reported
Action Type:	Utility-related Abatement Measure
Action Stat:	Notification of URAM Received
Action Date:	07/17/2009
Response Action Outcome:	Not reported
Action Type:	RLFA
Action Stat:	FOLOFF
Action Date:	03/14/2009
Response Action Outcome:	Not reported
Action Type:	Response Action Outcome
Action Stat:	TSEVAL
Action Date:	10/10/2007
Response Action Outcome:	Not reported
Action Type:	Response Action Outcome
Action Stat:	RAO Statement Received
Action Date:	10/03/2002
Response Action Outcome:	Not reported
Action Type:	Phase III
Action Stat:	Completion Statement Received
Action Date:	07/29/2002
Response Action Outcome:	Not reported
Action Type:	Phase II
Action Stat:	Completion Statement Received
Action Date:	07/29/2002
Response Action Outcome:	Not reported
Action Type:	Immediate Response
Action Stat:	Completion Statement Received
Action Date:	07/19/2002
Response Action Outcome:	Not reported
Action Type:	Immediate Response
Action Stat:	Imminent Hazard Evaluation Received
Action Date:	07/19/2002
Response Action Outcome:	Not reported

NO LOCATION AID (Continued) **S106954129**

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 01/15/2002
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 11/09/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Imminent Hazard Evaluation Received
Action Date: 11/09/2001
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 09/25/2001
Response Action Outcome: Not reported

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 09/25/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 07/13/2001
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 09/30/1999
Response Action Outcome: Not reported

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 09/30/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 09/30/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 09/30/1999
Response Action Outcome: Not reported

Action Type: PIP
Action Stat: Legal Notice Published
Action Date: 09/30/1999
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED

NO LOCATION AID (Continued) **S106954129**

Action Date: 03/23/1999
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 09/23/1998
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 09/23/1998
Response Action Outcome: Not reported

Chemical:
Chemical: BENZENE, 1,3,5-TRIMETHYL-
Quantity: 230 parts per million
Chemical: ACENAPHTHYLENE
Quantity: 940 parts per million
Chemical: BENZ[A]ANTHRACENE
Quantity: 700 parts per million
Chemical: ANTHRACENE
Quantity: 1100 parts per million
Chemical: ACENAPHTHYLENE, 1,2-DIHYDRO
Quantity: 1800 parts per million
Chemical: BENZENE
Quantity: 180 parts per million
Chemical: 2-METHYLNAPHTHALENE
Quantity: 4400 parts per million

Location:
Location Type: PRIVPROP

Source:
Source Type: UNKNOWN

Action:
Action Type: Utility-related Abatement Measure
Action Stat: Completion Statement Received
Action Date: 07/24/2009
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure
Action Stat: Notification of URAM Received
Action Date: 07/17/2009
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 03/14/2009
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: TSEVAL
Action Date: 10/10/2007
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: RAO Statement Received

NO LOCATION AID (Continued) **S106954129**

Action Date: 10/03/2002
Response Action Outcome: Not reported

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 07/29/2002
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 07/29/2002
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 07/19/2002
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Imminent Hazard Evaluation Received
Action Date: 07/19/2002
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 01/15/2002
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 11/09/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Imminent Hazard Evaluation Received
Action Date: 11/09/2001
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 09/25/2001
Response Action Outcome: Not reported

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 09/25/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 07/13/2001
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 09/30/1999
Response Action Outcome: Not reported

NO LOCATION AID (Continued) **S106954129**

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 09/30/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 09/30/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 09/30/1999
Response Action Outcome: Not reported

Action Type: PIP
Action Stat: Legal Notice Published
Action Date: 09/30/1999
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 03/23/1999
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 09/23/1998
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 09/23/1998
Response Action Outcome: Not reported

Facility ID: 4-0016574
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 09/17/2001
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 09/24/2002
Phase: Not reported
Rspns Actn Outcome Class: B1
Oil / Haz Material Type: Hazardous Material

Action:
Action Type: C&E
Action Stat: NON
Action Date: 02/19/2003
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 10/03/2002
Response Action Outcome: Remedial actions have not been conducted because a level of No

NO LOCATION AID (Continued) **S106954129**

Significant Risk exists.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 09/24/2002
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 07/30/2002
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 07/19/2002
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response
Action Stat: Imminent Hazard Evaluation Received
Action Date: 07/19/2002
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 01/15/2002
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 11/23/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 11/09/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response
Action Stat: Imminent Hazard Evaluation Received
Action Date: 11/09/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF
Action Stat: REPORT
Action Date: 11/09/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Notice of Responsibility

NO LOCATION AID (Continued) **S106954129**

Action Stat: ISSUED
Action Date: 11/05/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release
Action Stat: REPORT
Action Date: 09/17/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 09/17/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Chemical:
Chemical: BENZENE
Quantity: 2000 parts per billion
Chemical: TETRACHLOROETHYLENE
Quantity: 28.3 parts per billion

Location:
Location Type: INDUSTRIAL

Source:
Source Type: UNKNOWN

Action:
Action Type: C&E
Action Stat: NON
Action Date: 02/19/2003
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 10/03/2002
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 09/24/2002
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 07/30/2002
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 07/19/2002
Response Action Outcome: Remedial actions have not been conducted because a level of No

NO LOCATION AID (Continued) **S106954129**

Significant Risk exists.

Action Type: Immediate Response
Action Stat: Imminent Hazard Evaluation Received
Action Date: 07/19/2002
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 01/15/2002
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 11/23/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 11/09/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response
Action Stat: Imminent Hazard Evaluation Received
Action Date: 11/09/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF
Action Stat: REPORT
Action Date: 11/09/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/05/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release
Action Stat: REPORT
Action Date: 09/17/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 09/17/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

H38 NNW 1/2-1 0.605 mi. 3196 ft. | **COMMONWEALTH ELECTRIC** | **Manufactured Gas Plants** | **1008408464**
180 MACARTHUR DRIVE | **N/A**
NEW BEDFORD, MA 02740

Site 2 of 8 in cluster H

Relative: Higher

Actual: 30 ft.

Manufactured Gas Plants:
Alternate Name:NEW BEDFORD GAS LIGHT CO;NEW BEDFORD GAS AND EDISON LIGHTING CO.

H39 NNW 1/2-1 0.605 mi. 3196 ft. | **NEW BEDFORD OCEANARIUM** | **FINDS SHWS RELEASE AIRS** | **1007085944**
180 MACARTHUR DR | **N/A**
NEW BEDFORD, MA 02741

Site 3 of 8 in cluster H

Relative: Higher

Actual: 30 ft.

FINDS:

Registry ID: 110015656057

Environmental Interest/Information System
MA-EPICS - Massachussetts Environmental Protection Integrated Computer System

SHWS:

Facility ID:	4-0012592
Release Town:	NEW BEDFORD
Notification Date:	08/26/1996
Category:	TWO HR
Associated ID:	Not reported
Compliance Status:	**Tier 1B, A site/release where an NRS score of less than 550 and equal t or greater than 450. These sites/releases require a permit and the response actions may be performed under the supervision of a Licensed Site Professional (LSP) without prior DEP approval, unless such an approval is specifically required by DEP.**
Status Date:	09/24/1999
Phase:	PHASE IV
Response Action Outcome Class:	Not reported
Oil Or Haz Material:	Hazardous Material

Chemical:

Chemical:	CREOSOTE
Quantity:	Not reported
Chemical:	COAL TAR
Quantity:	Not reported

Location:

Location Type:	COMMERCIAL
Location Type:	WATERBODY

Source:

Source Type:	UNKNOWN

Action:

Action Type:	BWS02
Action Stat:	APPROV
Action Date:	Not reported
Response Action Outcome:	Not reported

NEW BEDFORD OCEANARIUM (Continued) **1007085944**

Action Type: BWS20
Action Stat: APPROV
Action Date: Not reported
Response Action Outcome: Not reported

Action Type: BWS20
Action Stat: PREAPP
Action Date: Not reported
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 10/06/2009
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 06/12/2009
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 06/11/2009
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 04/21/2009
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 02/19/2009
Response Action Outcome: Not reported

Action Type: Phase III
Action Stat: Revised Statement or Transmittal Received
Action Date: 02/19/2009
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 10/14/2008
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 04/17/2008
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 11/01/2007
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received

NEW BEDFORD OCEANARIUM (Continued) **1007085944**

Action Date: 10/29/2007
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 04/19/2007
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 04/10/2007
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 03/07/2007
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 11/01/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 10/26/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 05/01/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 10/24/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 04/15/2005
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 03/11/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 10/22/2004
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 05/16/2003
Response Action Outcome: Not reported

NEW BEDFORD OCEANARIUM (Continued) **1007085944**

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 10/22/2002
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 05/10/2002
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 10/15/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 04/13/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 10/16/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREFF
Action Date: 05/09/2000
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 04/18/2000
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 12/15/1999
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 09/24/1999
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 09/24/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 1B Classification
Action Date: 09/24/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Revised Statement or Transmittal Received

NEW BEDFORD OCEANARIUM (Continued) **1007085944**

Action Date: 09/24/1999
Response Action Outcome: Not reported

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 09/24/1999
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 09/24/1999
Response Action Outcome: Not reported

Action Type: PIP
Action Stat: Legal Notice Published
Action Date: 09/15/1999
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 04/20/1999
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 10/16/1998
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 07/02/1998
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/01/1998
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 03/06/1998
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 03/05/1998
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 11/19/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 09/02/1997
Response Action Outcome: Not reported

NEW BEDFORD OCEANARIUM (Continued) **1007085944**

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 09/02/1997
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 09/02/1997
Response Action Outcome: Not reported

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 09/02/1997
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 08/21/1997
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/04/1997
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 05/28/1997
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 03/24/1997
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/15/1997
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 08/26/1996
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: Adequately Regulated
Action Date: 08/26/1996
Response Action Outcome: Not reported

Release:
Facility ID: 4-0012592
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 08/26/1996
Category: TWO HR

NEW BEDFORD OCEANARIUM (Continued) **1007085944**

Facility Status: TIER1B
Status Date: 09/24/1999
Phase: PHASE IV
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Hazardous Material

Action:

Action Type: BWS02
Action Stat: APPROV
Action Date: Not reported
Response Action Outcome: Not reported

Action Type: BWS20
Action Stat: APPROV
Action Date: Not reported
Response Action Outcome: Not reported

Action Type: BWS20
Action Stat: PREAPP
Action Date: Not reported
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 10/06/2009
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 06/12/2009
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 06/11/2009
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 04/21/2009
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 02/19/2009
Response Action Outcome: Not reported

Action Type: Phase III
Action Stat: Revised Statement or Transmittal Received
Action Date: 02/19/2009
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 10/14/2008
Response Action Outcome: Not reported

Action Type: Immediate Response

NEW BEDFORD OCEANARIUM (Continued) **1007085944**

Action Stat: Status Report Received
Action Date: 04/17/2008
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 11/01/2007
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 10/29/2007
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 04/19/2007
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 04/10/2007
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 03/07/2007
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 11/01/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 10/26/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 05/01/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 10/24/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 04/15/2005
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 03/11/2005

NEW BEDFORD OCEANARIUM (Continued) **1007085944**

Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 10/22/2004
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 05/16/2003
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 10/22/2002
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 05/10/2002
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 10/15/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 04/13/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 10/16/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREFF
Action Date: 05/09/2000
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 04/18/2000
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 12/15/1999
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 09/24/1999
Response Action Outcome: Not reported

NEW BEDFORD OCEANARIUM (Continued) **1007085944**

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 09/24/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 1B Classification
Action Date: 09/24/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 09/24/1999
Response Action Outcome: Not reported

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 09/24/1999
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 09/24/1999
Response Action Outcome: Not reported

Action Type: PIP
Action Stat: Legal Notice Published
Action Date: 09/15/1999
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 04/20/1999
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 10/16/1998
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 07/02/1998
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/01/1998
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 03/06/1998
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received

NEW BEDFORD OCEANARIUM (Continued) **1007085944**

Action Date: 03/05/1998
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 11/19/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 09/02/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 09/02/1997
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 09/02/1997
Response Action Outcome: Not reported

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 09/02/1997
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 08/21/1997
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/04/1997
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 05/28/1997
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 03/24/1997
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/15/1997
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 08/26/1996
Response Action Outcome: Not reported

NEW BEDFORD OCEANARIUM (Continued) **1007085944**

Action Type: Response Action Outcome Not Required
Action Stat: Adequately Regulated
Action Date: 08/26/1996
Response Action Outcome: Not reported

Chemical:
Chemical: CREOSOTE
Quantity: Not reported
Chemical: COAL TAR
Quantity: Not reported

Location:
Location Type: COMMERCIAL
Location Type: WATERBODY

Source:
Source Type: UNKNOWN

Action:
Action Type: BWS02
Action Stat: APPROV
Action Date: Not reported
Response Action Outcome: Not reported

Action Type: BWS20
Action Stat: APPROV
Action Date: Not reported
Response Action Outcome: Not reported

Action Type: BWS20
Action Stat: PREAPP
Action Date: Not reported
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 10/06/2009
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 06/12/2009
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 06/11/2009
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 04/21/2009
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 02/19/2009
Response Action Outcome: Not reported

NEW BEDFORD OCEANARIUM (Continued) **1007085944**

Action Type: Phase III
Action Stat: Revised Statement or Transmittal Received
Action Date: 02/19/2009
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 10/14/2008
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 04/17/2008
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 11/01/2007
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 10/29/2007
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 04/19/2007
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 04/10/2007
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 03/07/2007
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 11/01/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 10/26/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 05/01/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received

NEW BEDFORD OCEANARIUM (Continued) **1007085944**

Action Date: 10/24/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 04/15/2005
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 03/11/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 10/22/2004
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 05/16/2003
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 10/22/2002
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 05/10/2002
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 10/15/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 04/13/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 10/16/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREFF
Action Date: 05/09/2000
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 04/18/2000
Response Action Outcome: Not reported

NEW BEDFORD OCEANARIUM (Continued) **1007085944**

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 12/15/1999
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 09/24/1999
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 09/24/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 1B Classification
Action Date: 09/24/1999
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 09/24/1999
Response Action Outcome: Not reported

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 09/24/1999
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 09/24/1999
Response Action Outcome: Not reported

Action Type: PIP
Action Stat: Legal Notice Published
Action Date: 09/15/1999
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 04/20/1999
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 10/16/1998
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 07/02/1998
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received

NEW BEDFORD OCEANARIUM (Continued) **1007085944**

Action Date: 06/01/1998
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 03/06/1998
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 03/05/1998
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 11/19/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 09/02/1997
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 09/02/1997
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 09/02/1997
Response Action Outcome: Not reported

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 09/02/1997
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 08/21/1997
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/04/1997
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 05/28/1997
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 03/24/1997
Response Action Outcome: Not reported

NEW BEDFORD OCEANARIUM (Continued) **1007085944**

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/15/1997
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 08/26/1996
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: Adequately Regulated
Action Date: 08/26/1996
Response Action Outcome: Not reported

AIRS:
Facility Status: APPROV
Permit Code: AQ02
Permit Name: Non-Major Comprehensive Approval
DEP Region: SE
Application Tracking Number: W029271
Date Closed: 4/23/2003
DEP Region Number: 377725
Applicant Name: NEW BEDFORD OCEANARIUM CORP
Applicant Address: 128 UNION ST
Applicant City,St,Zip: NEW BEDFORD, MA 027410000
Applicant Telephone: 5089945400

H40 **COMMONWEALTH ELECTRIC PROPERTY** **CERCLIS** **1003072911**
NNW **180 MACARTHUR DRIVE** **MAN000103064**
1/2-1 **NEW BEDFORD, MA 02740**
0.605 mi.
3196 ft. **Site 4 of 8 in cluster H**

Relative:
Higher

Actual:
30 ft.

CERCLIS:
Site ID: 0103064
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: Other Cleanup Activity: State-Lead Cleanup

CERCLIS Site Contact Name(s):
Contact Name: Not reported
Contact Tel: Not reported
Contact Title: 12701

Site Description: Not reported

CERCLIS Assessment History:
Action: DISCOVERY
Date Started: Not reported
Date Completed: 7/13/2000 0:00:00
Priority Level: Not reported

Action: COMBINED PA/SI
Date Started: 7/13/2000 0:00:00
Date Completed: 4/23/2003 0:00:00

COMMONWEALTH ELECTRIC PROPERTY (Continued) **1003072911**

Priority Level: Low priority for further assessment

H41 NNW 1/2-1 0.605 mi. 3196 ft.

Relative: Higher

Actual: 30 ft.

NSTAR ELECTRIC GAS
180 MACARTHUR DR
NEW BEDFORD, MA 02740

Site 5 of 8 in cluster H

RCRA-SQG **1000301793**
PADS **MAD002577575**
LAST
MANIFEST
MANIFEST
RELEASE

RCRA-SQG:
Date form received by agency: 11/29/2004
Facility name: NSTAR ELECTRIC GAS
Facility address: 180 MACARTHUR BLVD
NEW BEDFORD, MA 02740
EPA ID: MAD002577575
Mailing address: ONE NSTAR WAY
WESTWOOD, MA 020900000
Contact: JONATHAN REICH
Contact address: ONE NSTAR WAY
WESTWOOD, MA 020900000
Contact country: US
Contact telephone: (781) 441-3807
Contact email: Not reported
EPA Region: 01
Land type: Private
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: NSTAR ELECTRIC GAS
Owner/operator address: ONE NSTAR WAY
WESTWOOD, MA 02090
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 11/29/2004
Owner/Op end date: Not reported

Owner/operator name: NSTAR ELECTRIC GAS
Owner/operator address: ONE NSTAR WAY
WESTWOOD, MA 02090
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 11/29/2004
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No

NSTAR ELECTRIC GAS (Continued) **1000301793**

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
Off-site waste receiver:	Commercial status unknown

Historical Generators:

Date form received by agency:	02/07/1992
Facility name:	NSTAR ELECTRIC GAS
Site name:	COM ELECTRIC CANNON ST GENL STA
Classification:	Large Quantity Generator
Date form received by agency:	03/01/1990
Facility name:	NSTAR ELECTRIC GAS
Site name:	COM/ELECTRIC CANNON ST ELECTRIC
Classification:	Large Quantity Generator
Date form received by agency:	08/18/1980
Facility name:	NSTAR ELECTRIC GAS
Site name:	COM ELECTRIC CANNON ST GEN STA
Classification:	Small Quantity Generator

Hazardous Waste Summary:

Waste code:	MA98
Waste name:	OFF SPECIFICATION USED OIL FUEL THAT IS SHIPPED USING A HW MANIFEST
Waste code:	D001
Waste name:	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Waste code:	D008
Waste name:	LEAD
Waste code:	D009
Waste name:	MERCURY
Waste code:	D018
Waste name:	BENZENE
Waste code:	MA01
Waste name:	WASTE OIL

NSTAR ELECTRIC GAS (Continued) **1000301793**

Waste code: MA02
Waste name: PCB WASTES

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 09/17/1985
Date achieved compliance: 04/22/1992
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

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 04/23/1985
Date achieved compliance: 04/22/1992
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

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 04/23/1985
Date achieved compliance: 04/22/1992
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/24/1985
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: 12/03/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/22/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported

NSTAR ELECTRIC GAS (Continued) **1000301793**

Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/17/1985
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Generators - General
Date achieved compliance: 04/22/1992
Evaluation lead agency: State

Evaluation date: 04/23/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 04/22/1992
Evaluation lead agency: State

LAST:
Facility ID: 4-0015755
Source Type: AST
Release Town: NEW BEDFORD
Notification Date: 09/14/2000
Category: 72 HR
Associated ID: Not reported
Facility Status: Response Action Outcome Not Required
Status Date: 07/13/2001
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:
Chemical: COAL TAR
Quantity: 84 inches

Location:
Location Type: INDUSTRIAL

Source:
Source Type: AST

Action:
Action Type: Immediate Response
Action Stat: Imminent Hazard Evaluation Received
Action Date: 07/19/2002
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 07/19/2002
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 01/15/2002
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Imminent Hazard Evaluation Received
Action Date: 11/09/2001
Response Action Outcome: Not reported

Action Type: Immediate Response

NSTAR ELECTRIC GAS (Continued) **1000301793**

Action Stat: Written Plan Received
Action Date: 11/09/2001
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 07/13/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 07/13/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 04/13/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 01/12/2001
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 11/13/2000
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 11/13/2000
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/05/2000
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 09/14/2000
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 09/14/2000
Response Action Outcome: Not reported

NY MANIFEST:
EPA ID: MAD002577575
Country: USA
Mailing Name: COMMONWEALTH ELECTRIC COMPANY
Mailing Contact: EDWIN E NICHOLSON
Mailing Address: 180 MCAURTHUR DRIVE
Mailing Address 2: Not reported

NSTAR ELECTRIC GAS (Continued) **1000301793**

Mailing City:	NEW BEDFORD
Mailing State:	MA
Mailing Zip:	02740
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	617-291-0950

Document ID:	NYO1079694
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	MA006
Trans2 State ID:	Not reported
Generator Ship Date:	840607
Trans1 Recv Date:	840607
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	840611
Part A Recv Date:	840703
Part B Recv Date:	840726
Generator EPA ID:	MAD002577575
Trans1 EPA ID:	MAD039322250
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B004 - PCB ARTICLES WITH 50 PPM BUT < 500 PPM
Quantity:	40000
Units:	P - Pounds
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	84
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

MANIFEST:

GEN Cert Date:	8/4/2000
Transporter Recpt Date:	Not reported
Number Of Containers:	0
Container Type:	MA01
Waste Code1:	MA98
Waste Code2:	Not reported
Waste Code3:	Not reported
Comment:	gen date approx
Fee Exempt Code:	Not reported
TSDF Name:	SK
TSDF ID:	rid040098352
TSDF Date:	Not reported
Date Imported:	9/29/2000

NSTAR ELECTRIC GAS (Continued) **1000301793**

Transporter 2 Name: Not reported
Transporter 2 ID: Not reported
Manifest Docket Number: Not reported
Waste Description: Not reported
Quantity: Not reported
WT/Vol Units: Not reported
Item Number: Not reported
Transporter Name: Not reported
Transporter EPA ID: Not reported
GEN Cert Date: Not reported
Transporter Recpt Date: Not reported
Transporter 2 Recpt Date: Not reported
TSDF Recpt Date: Not reported
EPA ID: Not reported
Transporter 2 ID: Not reported

Release:
Facility ID: 4-0015755
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 09/14/2000
Category: 72 HR
Facility Status: Response Action Outcome Not Required
Status Date: 07/13/2001
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: Immediate Response
Action Stat: Imminent Hazard Evaluation Received
Action Date: 07/19/2002
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 07/19/2002
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 01/15/2002
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Imminent Hazard Evaluation Received
Action Date: 11/09/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 11/09/2001
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site

NSTAR ELECTRIC GAS (Continued) **1000301793**

Action Date: 07/13/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 07/13/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 04/13/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 01/12/2001
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 11/13/2000
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 11/13/2000
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/05/2000
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 09/14/2000
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 09/14/2000
Response Action Outcome: Not reported

Chemical:
Chemical: COAL TAR
Quantity: 84 inches

Location:
Location Type: INDUSTRIAL

Source:
Source Type: AST

Action:
Action Type: Immediate Response
Action Stat: Imminent Hazard Evaluation Received
Action Date: 07/19/2002
Response Action Outcome: Not reported

NSTAR ELECTRIC GAS (Continued) **1000301793**

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 07/19/2002
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 01/15/2002
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Imminent Hazard Evaluation Received
Action Date: 11/09/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 11/09/2001
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 07/13/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 07/13/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 04/13/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 01/12/2001
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 11/13/2000
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 11/13/2000
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/05/2000
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan

NSTAR ELECTRIC GAS (Continued) **1000301793**

Action Date: 09/14/2000
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 09/14/2000
Response Action Outcome: Not reported

H42 NNW 1/2-1 0.605 mi. 3196 ft. **CANNON ST STATION**
180 MACARTHUR DR
NEW BEDFORD, MA
SHWS RELEASE **S104774358 N/A**

Site 6 of 8 in cluster H

Relative: Higher

Actual: 30 ft.

SHWS:
Facility ID: 4-0015570
Release Town: NEW BEDFORD
Notification Date: 06/23/2000
Category: TWO HR
Associated ID: Not reported
Compliance Status: Release Action Outcome
Status Date: 07/22/2003
Phase: PHASE IV
Response Action Outcome Class: A2
Oil Or Haz Material: Oil

Chemical:
Chemical: FUEL OIL
Quantity: Not reported

Location:
Location Type: Not reported

Source:
Source Type: UNKNOWN

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 08/27/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/22/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/26/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 06/26/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

CANNON ST STATION (Continued) **S104774358**

reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 04/26/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 04/26/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 04/26/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 04/26/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 10/23/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 08/30/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 08/22/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 07/05/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/30/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release

CANNON ST STATION (Continued) **S104774358**

Action Stat: REPORT
Action Date: 06/23/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 06/23/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 4-0015570
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 06/23/2000
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 07/22/2003
Phase: PHASE IV
Rspns Actn Outcome Class: A2
Oil / Haz Material Type: Oil

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 08/27/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/22/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/26/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 06/26/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 04/26/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Completion Statement Received

CANNON ST STATION (Continued) **S104774358**

Action Date: 04/26/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 04/26/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 04/26/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 10/23/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 08/30/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 08/22/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 07/05/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/30/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 06/23/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 06/23/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

CANNON ST STATION (Continued) **S104774358**

Chemical:
Chemical: FUEL OIL
Quantity: Not reported

Location:
Location Type: Not reported

Source:
Source Type: UNKNOWN

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 08/27/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/22/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/26/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 06/26/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 04/26/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 04/26/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 04/26/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 04/26/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

CANNON ST STATION (Continued) **S104774358**

Action Type:	Immediate Response
Action Stat:	Status Report Received
Action Date:	10/23/2000
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Immediate Response
Action Stat:	Written Plan Received
Action Date:	08/30/2000
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	RNF
Action Stat:	REPORT
Action Date:	08/22/2000
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	RLFA
Action Stat:	FOLOFF
Action Date:	07/05/2000
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	06/30/2000
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Release
Action Stat:	REPORT
Action Date:	06/23/2000
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Immediate Response
Action Stat:	Oral Approval of Plan
Action Date:	06/23/2000
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

H43 **COMM ELECTRIC POWER PLANT FMR** **SHWS** **S104847652**
NNW **180 MACARTHUR DR** **RELEASE** **N/A**
1/2-1 **NEW BEDFORD, MA**
0.605 mi.
3196 ft. **Site 7 of 8 in cluster H**

Relative:
Higher

Actual:
30 ft.

SHWS:

Facility ID:	4-0015896
Release Town:	NEW BEDFORD
Notification Date:	11/20/2000
Category:	120 DY
Associated ID:	Not reported
Compliance Status:	**Release Action Outcome**
Status Date:	03/23/2001
Phase:	Not reported

COMM ELECTRIC POWER PLANT FMR (Continued) **S104847652**

Response Action Outcome Class: B1
Oil Or Haz Material: Hazardous Material

Chemical:
Chemical: ETHENE, 1,1-DICHLORO-
Quantity: 210 parts per billion

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 04/12/2004
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/23/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 02/15/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF
Action Stat: REPORT
Action Date: 11/20/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release
Action Stat: REPORT
Action Date: 11/20/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Release:
Facility ID: 4-0015896
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 11/20/2000
Category: 120 DY
Facility Status: Response Action Outcome
Status Date: 03/23/2001
Phase: Not reported
Rspns Actn Outcome Class: B1
Oil / Haz Material Type: Hazardous Material

Action:
Action Type: Response Action Outcome

COMM ELECTRIC POWER PLANT FMR (Continued) **S104847652**

Action Stat: Level I - Technical Screen Audit
Action Date: 04/12/2004
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/23/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 02/15/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF
Action Stat: REPORT
Action Date: 11/20/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release
Action Stat: REPORT
Action Date: 11/20/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Chemical:
Chemical: ETHENE, 1,1-DICHLORO-
Quantity: 210 parts per billion

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 04/12/2004
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/23/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 02/15/2001
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

COMM ELECTRIC POWER PLANT FMR (Continued) **S104847652**

Action Type: RNF
Action Stat: REPORT
Action Date: 11/20/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release
Action Stat: REPORT
Action Date: 11/20/2000
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

H44
NNW
1/2-1
0.605 mi.
3196 ft.

SOUTH TRANSFORMER YARD
180 MACARTHUR DR
NEW BEDFORD, MA

SHWS **S104232405**
RELEASE **N/A**

Site 8 of 8 in cluster H

Relative:
Higher

Actual:
30 ft.

SHWS:
Facility ID: 4-0011345
Release Town: NEW BEDFORD
Notification Date: 05/04/1995
Category: TWO HR
Associated ID: Not reported
Compliance Status: **Release Action Outcome**
Status Date: 09/01/1995
Phase: Not reported
Response Action Outcome Class: A1
Oil Or Haz Material: Oil

Chemical:
Chemical: TRANSFORMER OIL
Quantity: 10 gallons
Chemical: TRANSFORMER OIL
Quantity: Not reported

Location:
Location Type: INDUSTRIAL

Source:
Source Type: TRANSFORM

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 09/01/1995
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: RNF
Action Stat: REPORT
Action Date: 06/30/1995
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 Stat: Written Plan Received
Action Date: 06/30/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced

SOUTH TRANSFORMER YARD (Continued) **S104232405**

to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 05/10/1995
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: Release
Action Stat: REPORT
Action Date: 05/04/1995
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: RLFA
Action Stat: FOLOFF
Action Date: 05/04/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Facility ID: 4-0018316
Release Town: NEW BEDFORD
Notification Date: 03/12/2004
Category: 120 DY
Associated ID: Not reported
Compliance Status: Release Action Outcome
Status Date: 04/05/2004
Phase: Not reported
Response Action Outcome Class: A2
Oil Or Haz Material: Oil

Chemical:
Chemical: HYDRAULIC FLUID
Quantity: Not reported
Chemical: HYDRAULIC FLUID
Quantity: 10000 parts per million

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: BWS20
Action Stat: APPROV
Action Date: Not reported
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 04/09/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received

SOUTH TRANSFORMER YARD (Continued) **S104232405**

Action Date: 04/05/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 03/18/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 03/12/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 03/12/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 03/12/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 4-0011345
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 05/04/1995
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 09/01/1995
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil / Haz Material Type: Oil

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 09/01/1995
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: RNF
Action Stat: REPORT
Action Date: 06/30/1995
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 Stat: Written Plan Received
Action Date: 06/30/1995

SOUTH TRANSFORMER YARD (Continued) **S104232405**

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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 05/10/1995
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: Release
Action Stat: REPORT
Action Date: 05/04/1995
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: RLFA
Action Stat: FOLOFF
Action Date: 05/04/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:
Chemical: TRANSFORMER OIL
Quantity: 10 gallons
Chemical: TRANSFORMER OIL
Quantity: Not reported

Location:
Location Type: INDUSTRIAL

Source:
Source Type: TRANSFORM

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 09/01/1995
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: RNF
Action Stat: REPORT
Action Date: 06/30/1995
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 Stat: Written Plan Received
Action Date: 06/30/1995
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 05/10/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

SOUTH TRANSFORMER YARD (Continued) **S104232405**

Action Type: Release
Action Stat: REPORT
Action Date: 05/04/1995
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: RLFA
Action Stat: FOLOFF
Action Date: 05/04/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Facility ID: 4-0018316
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 03/12/2004
Category: 120 DY
Facility Status: Response Action Outcome
Status Date: 04/05/2004
Phase: Not reported
Rspns Actn Outcome Class: A2
Oil / Haz Material Type: Oil

Action:
Action Type: BWS20
Action Stat: APPROV
Action Date: Not reported
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 04/09/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 04/05/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 03/18/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 03/12/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 03/12/2004

SOUTH TRANSFORMER YARD (Continued) **S104232405**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 03/12/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: HYDRAULIC FLUID
Quantity: Not reported
Chemical: HYDRAULIC FLUID
Quantity: 10000 parts per million

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: BWS20
Action Stat: APPROV
Action Date: Not reported
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 04/09/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 04/05/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 03/18/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 03/12/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 03/12/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

SOUTH TRANSFORMER YARD (Continued) **S104232405**

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 03/12/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

45
NW
1/2-1
0.657 mi.
3472 ft.

545 PURCHASE ST
NEW BEDFORD, MA 02740

LAST RELEASE LEAD **S105914148** **N/A**

Relative: Higher

Actual: 31 ft.

LAST:
Facility ID: 4-0017828
Source Type: AST
Release Town: NEW BEDFORD
Notification Date: 05/22/2003
Category: TWO HR
Associated ID: Not reported
Facility Status: Release Action Outcome
Status Date: 06/30/2003
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil Or Haz Material: Oil

Chemical:
Chemical: OIL
Quantity: 30 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: AST

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/30/2003
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 Stat: Completion Statement Received
Action Date: 06/30/2003
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 Stat: Imminent Hazard Evaluation Received
Action Date: 06/30/2003
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 Stat: REPORT
Action Date: 06/30/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

(Continued) **S105914148**

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/13/2003
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
Action Stat: REPORT
Action Date: 05/22/2003
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 Stat: Oral Approval of Plan
Action Date: 05/22/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Facility ID: 4-0017828
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 05/22/2003
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 06/30/2003
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil / Haz Material Type: Oil

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/30/2003
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 Stat: Completion Statement Received
Action Date: 06/30/2003
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 Stat: Imminent Hazard Evaluation Received
Action Date: 06/30/2003
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 Stat: REPORT
Action Date: 06/30/2003
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: Notice of Responsibility

(Continued) **S105914148**

Action Stat: ISSUED
Action Date: 06/13/2003
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
Action Stat: REPORT
Action Date: 05/22/2003
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 Stat: Oral Approval of Plan
Action Date: 05/22/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:
Chemical: OIL
Quantity: 30 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: AST

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/30/2003
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 Stat: Completion Statement Received
Action Date: 06/30/2003
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 Stat: Imminent Hazard Evaluation Received
Action Date: 06/30/2003
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 Stat: REPORT
Action Date: 06/30/2003
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/13/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

(Continued) **S105914148**

Action Type: Release
Action Stat: REPORT
Action Date: 05/22/2003
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 Stat: Oral Approval of Plan
Action Date: 05/22/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

LEAD:
Community: New Bedford
Unit: 1
Inspector Name: Robert Powers
Inspector License Number: 3651
Activity Type: INSPECT
Activity Date: 7/24/2008
Start Work Date: Not reported
Activity Descriptions: Comprehensive Initial Inspection
Outcomes: Hazards Found

46
SW
1/2-1
0.689 mi.
3637 ft.

Relative:
Higher

Actual:
3 ft.

NO LOCATION AID **SHWS** **S107678218**
104 WINSOR ST **LUST** **N/A**
NEW BEDFORD, MA **RELEASE**

SHWS:
Facility ID: 4-0019580
Release Town: NEW BEDFORD
Notification Date: 01/25/2006
Category: 72 HR
Associated ID: Not reported
Compliance Status: **Tier 1D, a release where the responsible party fails to provide a required submittal to DEP by a specified deadline.**
Status Date: 02/01/2007
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Oil

Chemical:
Chemical: #2 FUEL OIL
Quantity: Not reported

Location:
Location Type: RESIDNTIAL
Location Type: COMMERCIAL

Source:
Source Type: PIPE
Source Type: UST

Action:
Action Type: RLFA
Action Stat: FLDRUN
Action Date: 01/30/2008

NO LOCATION AID (Continued) **S107678218**

Response Action Outcome:	Not reported
Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	02/27/2006
Response Action Outcome:	Not reported
Action Type:	Release
Action Stat:	REPORT
Action Date:	01/25/2006
Response Action Outcome:	Not reported

LUST:

Facility:

Facility ID:	4-0019580
Facility Status:	**Tier 1D, a release where the responsible party fails to provide a required submittal to DEP by a specified deadline.**
Status Date:	02/01/2007
Source Type:	UST
Release Town:	NEW BEDFORD
Notification Date:	01/25/2006
Category:	72 HR
Associated ID:	Not reported
Phase:	Not reported
Rspns Actn Outcome Class:	Not reported
Oil Or Haz Material:	Oil

Chemical:

Chemical:	#2 FUEL OIL
Quantity:	Not reported

Location:

Location Type:	RESIDNTIAL
Location Type:	COMMERCIAL

Source:

Source Type:	PIPE
Source Type:	UST

Action:

Action Type:	RLFA
Action Stat:	FLDRUN
Action Date:	01/30/2008
Response Action Outcome:	Not reported
Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	02/27/2006
Response Action Outcome:	Not reported
Action Type:	Release
Action Stat:	REPORT
Action Date:	01/25/2006
Response Action Outcome:	Not reported

NO LOCATION AID (Continued) **S107678218**

Release:

Facility ID:	4-0019580
Primary ID:	Not reported
Official City:	NEW BEDFORD
Notification:	01/25/2006
Category:	72 HR
Facility Status:	TIER1D
Status Date:	02/01/2007
Phase:	Not reported
Rspns Actn Outcome Class:	Not reported
Oil / Haz Material Type:	Oil

Action:

Action Type:	RLFA
Action Stat:	FLDRUN
Action Date:	01/30/2008
Response Action Outcome:	Not reported
Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	02/27/2006
Response Action Outcome:	Not reported
Action Type:	Release
Action Stat:	REPORT
Action Date:	01/25/2006
Response Action Outcome:	Not reported

Chemical:

Chemical:	#2 FUEL OIL
Quantity:	Not reported

Location:

Location Type:	RESIDNTIAL
Location Type:	COMMERCIAL

Source:

Source Type:	PIPE
Source Type:	UST

Action:

Action Type:	RLFA
Action Stat:	FLDRUN
Action Date:	01/30/2008
Response Action Outcome:	Not reported
Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	02/27/2006
Response Action Outcome:	Not reported
Action Type:	Release
Action Stat:	REPORT
Action Date:	01/25/2006
Response Action Outcome:	Not reported

47 WSW 1/2-1 0.703 mi. 3714 ft. | **TEXIERA RESIDENCE**
138-140 ROCKLAND ST
NEW BEDFORD, MA | **SHWS RELEASE** | **S105810862 N/A**

Relative: Higher

Actual: 25 ft.

SHWS:

Facility ID:	4-0017564
Release Town:	NEW BEDFORD
Notification Date:	01/02/2003
Category:	TWO HR
Associated ID:	Not reported
Compliance Status:	**Release Action Outcome**
Status Date:	03/06/2003
Phase:	Not reported
Response Action Outcome Class:	A1
Oil Or Haz Material:	Not reported

Chemical:

Chemical:	#2 FUEL
Quantity:	Not reported

Location:

Location Type:	RESIDNTIAL

Source:

Source Type:	TANKER

Action:

Action Type:	Response Action Outcome
Action Stat:	Level I - Technical Screen Audit
Action Date:	03/11/2003
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 Stat:	REPORT
Action Date:	03/06/2003
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
Action Stat:	RAO Statement Received
Action Date:	03/06/2003
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 Stat:	FOLOFF
Action Date:	01/21/2003
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:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	01/17/2003
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 Stat:	FLDRAN

TEXIERA RESIDENCE (Continued) **S105810862**

Action Date: 01/09/2003
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 Stat: FOLOFF
Action Date: 01/06/2003
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 Stat: FOLOFF
Action Date: 01/03/2003
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 Stat: FOLOFF
Action Date: 01/02/2003
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
Action Stat: REPORT
Action Date: 01/02/2003
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 Stat: Oral Approval of Plan
Action Date: 01/02/2003
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 Stat: FLDD1A
Action Date: 01/02/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Facility ID: 4-0017564
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 01/02/2003
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 03/06/2003
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil / Haz Material Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 03/11/2003

TEXIERA RESIDENCE (Continued) **S105810862**

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 Stat: REPORT
Action Date: 03/06/2003
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
Action Stat: RAO Statement Received
Action Date: 03/06/2003
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 Stat: FOLOFF
Action Date: 01/21/2003
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/17/2003
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 Stat: FLDRAN
Action Date: 01/09/2003
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 Stat: FOLOFF
Action Date: 01/06/2003
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 Stat: FOLOFF
Action Date: 01/03/2003
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 Stat: FOLOFF
Action Date: 01/02/2003
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
Action Stat: REPORT
Action Date: 01/02/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

TEXIERA RESIDENCE (Continued) **S105810862**

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 01/02/2003
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 Stat: FLDD1A
Action Date: 01/02/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:
Chemical: #2 FUEL
Quantity: Not reported

Location:
Location Type: RESIDNTIAL

Source:
Source Type: TANKER

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 03/11/2003
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 Stat: REPORT
Action Date: 03/06/2003
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
Action Stat: RAO Statement Received
Action Date: 03/06/2003
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 Stat: FOLOFF
Action Date: 01/21/2003
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/17/2003
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 Stat: FLDRAN
Action Date: 01/09/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

TEXIERA RESIDENCE (Continued) **S105810862**

Action Type:	RLFA
Action Stat:	FOLOFF
Action Date:	01/06/2003
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 Stat:	FOLOFF
Action Date:	01/03/2003
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 Stat:	FOLOFF
Action Date:	01/02/2003
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
Action Stat:	REPORT
Action Date:	01/02/2003
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 Stat:	Oral Approval of Plan
Action Date:	01/02/2003
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 Stat:	FLDD1A
Action Date:	01/02/2003
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

48
SSE
1/2-1
0.705 mi.
3721 ft.

NO LOCATION AID **LAST** **S104232386**
51 CLEVELAND ST **RELEASE** **N/A**
NEW BEDFORD, MA 02744

Relative:
Equal

Actual:
0 ft.

LAST:

Facility ID:	4-0011192
Source Type:	AST
Release Town:	NEW BEDFORD
Notification Date:	03/11/1995
Category:	TWO HR
Associated ID:	Not reported
Facility Status:	**Release Action Outcome**
Status Date:	04/25/1995
Phase:	Not reported
Rspns Actn Outcome Class:	A1
Oil Or Haz Material:	Oil

Chemical:

Chemical:	#2 FUEL OIL

NO LOCATION AID (Continued) **S104232386**

Quantity: 100 gallons
Chemical: #2 FUEL OIL
Quantity: 25 gallons

Location:
Location Type: RESIDNTIAL

Source:
Source Type: AST

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 04/25/1995
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: RNF
Action Stat: REPORT
Action Date: 04/25/1995
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: RLFA
Action Stat: FOLOFF
Action Date: 04/05/1995
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 03/13/1995
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: RLFA
Action Stat: FOLFLD
Action Date: 03/13/1995
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
Action Stat: REPORT
Action Date: 03/11/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Facility ID: 4-0011192
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 03/11/1995
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 04/25/1995
Phase: Not reported
Rspns Actn Outcome Class: A1

NO LOCATION AID (Continued) **S104232386**

Oil / Haz Material Type: Oil

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 04/25/1995
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: RNF
Action Stat: REPORT
Action Date: 04/25/1995
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: RLFA
Action Stat: FOLOFF
Action Date: 04/05/1995
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 03/13/1995
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: RLFA
Action Stat: FOLFLD
Action Date: 03/13/1995
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
Action Stat: REPORT
Action Date: 03/11/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:
Chemical: #2 FUEL OIL
Quantity: 100 gallons
Chemical: #2 FUEL OIL
Quantity: 25 gallons

Location:
Location Type: RESIDNTIAL

Source:
Source Type: AST

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 04/25/1995
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: RNF

NO LOCATION AID (Continued) **S104232386**

Action Stat: REPORT
Action Date: 04/25/1995
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: RLFA
Action Stat: FOLOFF
Action Date: 04/05/1995
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 03/13/1995
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: RLFA
Action Stat: FOLFLD
Action Date: 03/13/1995
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
Action Stat: REPORT
Action Date: 03/11/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

49
NW
1/2-1
0.726 mi.
3832 ft.

MAP 46 LOTS 160 & 163
WALNUT / PLEASANT ST
NEW BEDFORD, MA 02740

SHWS RELEASE **S109612955 N/A**

Relative: Higher

Actual: 46 ft.

SHWS:
Facility ID: 4-0021870
Release Town: NEW BEDFORD
Notification Date: 04/03/2009
Category: 120 DY
Associated ID: Not reported
Compliance Status: Unclassified
Status Date: 04/03/2009
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Oil and Hazardous Material

Chemical:
Chemical: TPH
Quantity: 1000 milligrams per kilogram
Chemical: LEAD
Quantity: 872 milligrams per kilogram

Location:
Location Type: Not reported

Source:
Source Type: Not reported

MAP 46 LOTS 160 & 163 (Continued) **S109612955**

Action:

Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	10/05/2009
Response Action Outcome:	Not reported
Action Type:	RNF
Action Stat:	REPORT
Action Date:	04/03/2009
Response Action Outcome:	Not reported
Action Type:	Release
Action Stat:	REPORT
Action Date:	04/03/2009
Response Action Outcome:	Not reported

Release:

Facility ID:	4-0021870
Primary ID:	Not reported
Official City:	NEW BEDFORD
Notification:	04/03/2009
Category:	120 DY
Facility Status:	Unclassified Waste Site
Status Date:	04/03/2009
Phase:	Not reported
Rspns Actn Outcome Class:	Not reported
Oil / Haz Material Type:	Oil and Hazardous Material

Action:

Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	10/05/2009
Response Action Outcome:	Not reported
Action Type:	RNF
Action Stat:	REPORT
Action Date:	04/03/2009
Response Action Outcome:	Not reported
Action Type:	Release
Action Stat:	REPORT
Action Date:	04/03/2009
Response Action Outcome:	Not reported

Chemical:

Chemical:	TPH
Quantity:	1000 milligrams per kilogram
Chemical:	LEAD
Quantity:	872 milligrams per kilogram

Location:

Location Type:	Not reported

Source:

Source Type:	Not reported

MAP 46 LOTS 160 & 163 (Continued) **S109612955**

Action:

Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	10/05/2009
Response Action Outcome:	Not reported
Action Type:	RNF
Action Stat:	REPORT
Action Date:	04/03/2009
Response Action Outcome:	Not reported
Action Type:	Release
Action Stat:	REPORT
Action Date:	04/03/2009
Response Action Outcome:	Not reported

I50 West 1/2-1 0.730 mi. 3852 ft. **DOYLE SQ SERVICE STATION** **LUST** **S100831244**
20 DARTMOUTH ST **RELEASE** **N/A**
NEW BEDFORD, MA 02740

Site 1 of 2 in cluster I

Relative: Higher

Actual: 36 ft.

LUST:

Facility:

Facility ID:	4-0000119
Facility Status:	**Tier 1D, a release where the responsible party fails to provide a required submittal to DEP by a specified deadline.**
Status Date:	08/09/1995
Source Type:	UST
Release Town:	NEW BEDFORD
Notification Date:	02/12/1986
Category:	NONE
Associated ID:	Not reported
Phase:	Not reported
Rspns Actn Outcome Class:	Not reported
Oil Or Haz Material:	Not reported

Chemical:

Chemical:	UNKNOWN
Quantity:	Not reported

Location:

Location Type:	GASSTATION
Location Type:	FORMER

Source:

Source Type:	UST

Action:

Action Type:	C&E
Action Stat:	NON
Action Date:	03/09/2000
Response Action Outcome:	Not reported
Action Type:	Release
Action Stat:	TCTRNS
Action Date:	02/12/1986
Response Action Outcome:	Not reported

DOYLE SQ SERVICE STATION (Continued) **S100831244**

Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	02/12/1986
Response Action Outcome:	Not reported

Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	01/22/1986
Response Action Outcome:	Not reported

Release:

Facility ID:	4-0000119
Primary ID:	Not reported
Official City:	NEW BEDFORD
Notification:	02/12/1986
Category:	NONE
Facility Status:	TIER1D
Status Date:	08/09/1995
Phase:	Not reported
Rspns Actn Outcome Class:	Not reported
Oil / Haz Material Type:	Not reported

Action:

Action Type:	C&E
Action Stat:	NON
Action Date:	03/09/2000
Response Action Outcome:	Not reported

Action Type:	Release
Action Stat:	TCTRNS
Action Date:	02/12/1986
Response Action Outcome:	Not reported

Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	02/12/1986
Response Action Outcome:	Not reported

Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	01/22/1986
Response Action Outcome:	Not reported

Chemical:

Chemical:	UNKNOWN
Quantity:	Not reported

Location:

Location Type:	GASSTATION
Location Type:	FORMER

Source:

Source Type:	UST

Action:

Action Type:	C&E
Action Stat:	NON

DOYLE SQ SERVICE STATION (Continued) **S100831244**

Action Date: 03/09/2000
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 02/12/1986
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 02/12/1986
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/22/1986
Response Action Outcome: Not reported

51
SSW
1/2-1
0.730 mi.
3857 ft.

GROTAS MOTORS **LUST** **S103812671**
1163 COVE RD **RELEASE** **N/A**
NEW BEDFORD, MA

Relative:
Equal

Actual:
0 ft.

LUST:

Facility:
Facility ID: 4-0014629
Facility 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: 06/20/2000
Source Type: UST
Release Town: NEW BEDFORD
Notification Date: 03/29/1999
Category: 72 HR
Associated ID: Not reported
Phase: PHASE II
Rspns Actn Outcome Class: Not reported
Oil Or Haz Material: Oil

Chemical:
Chemical: C11-C22 AROMATICS
Quantity: 2930 parts per million
Chemical: GASOLINE
Quantity: 570 parts per million
Chemical: C9-C18 ALIPHATICS
Quantity: 6920 parts per million
Chemical: C9-C10 AROMATICS
Quantity: 2390 parts per million

Location:
Location Type: COMMERCIAL

Source:
Source Type: UST

GROTAS MOTORS (Continued) **S103812671**

Action:

Action Type:	Response Action Outcome
Action Stat:	Notice of Delay in meeting Response Action Deadline
Action Date:	04/23/2001
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Stat:	Tier 2 Classification
Action Date:	06/20/2000
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Stat:	Transmittal Received
Action Date:	06/20/2000
Response Action Outcome:	Not reported

Action Type:	Phase I
Action Stat:	Completion Statement Received
Action Date:	04/19/2000
Response Action Outcome:	Not reported

Action Type:	RNF
Action Stat:	REPORT
Action Date:	04/27/1999
Response Action Outcome:	Not reported

Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	04/06/1999
Response Action Outcome:	Not reported

Action Type:	Release
Action Stat:	REPORT
Action Date:	03/29/1999
Response Action Outcome:	Not reported

Action Type:	Immediate Response
Action Stat:	Oral Approval of Plan
Action Date:	03/29/1999
Response Action Outcome:	Not reported

Release:

Facility ID:	4-0014629
Primary ID:	Not reported
Official City:	NEW BEDFORD
Notification:	03/29/1999
Category:	72 HR
Facility Status:	TIERII
Status Date:	06/20/2000
Phase:	PHASE II
Rspns Actn Outcome Class:	Not reported
Oil / Haz Material Type:	Oil

Action:

Action Type:	Response Action Outcome
Action Stat:	Notice of Delay in meeting Response Action Deadline

GROTAS MOTORS (Continued) **S103812671**

Action Date: 04/23/2001
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 06/20/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 06/20/2000
Response Action Outcome: Not reported

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 04/19/2000
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 04/27/1999
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 04/06/1999
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 03/29/1999
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 03/29/1999
Response Action Outcome: Not reported

Chemical:
Chemical: C11-C22 AROMATICS
Quantity: 2930 parts per million
Chemical: GASOLINE
Quantity: 570 parts per million
Chemical: C9-C18 ALIPHATICS
Quantity: 6920 parts per million
Chemical: C9-C10 AROMATICS
Quantity: 2390 parts per million

Location:
Location Type: COMMERCIAL

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 04/23/2001

GROTAS MOTORS (Continued) **S103812671**

Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 06/20/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 06/20/2000
Response Action Outcome: Not reported

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 04/19/2000
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 04/27/1999
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 04/06/1999
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 03/29/1999
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 03/29/1999
Response Action Outcome: Not reported

I52 **METRO PIZZA** **LAST** **S106954232**
West **32 DARTMOUTH ST** **RELEASE** **N/A**
1/2-1 **NEW BEDFORD, MA**
0.739 mi.
3900 ft. **Site 2 of 2 in cluster I**

Relative:
Higher

Actual:
39 ft.

LAST:
Facility ID: 4-0019118
Source Type: AST
Release Town: NEW BEDFORD
Notification Date: 05/23/2005
Category: TWO HR
Associated ID: Not reported
Facility Status: **Release Action Outcome**
Status Date: 10/21/2005
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil Or Haz Material: Oil

Chemical:

METRO PIZZA (Continued) **S106954232**

Chemical: #2 FUEL OIL
Quantity: 150 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: AST

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 08/18/2006
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
Action Stat: Fee Received
Action Date: 10/25/2005
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
Action Stat: RAO Statement Received
Action Date: 10/21/2005
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 Stat: Completion Statement Received
Action Date: 10/21/2005
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: Notice of Responsibility
Action Stat: FLDISS
Action Date: 06/23/2005
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/21/2005
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: RLFA
Action Stat: FOLOFF
Action Date: 05/27/2005
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 Stat: Oral Approval of Plan
Action Date: 05/23/2005
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

METRO PIZZA (Continued) **S106954232**

Action Stat: REPORT
Action Date: 05/23/2005
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: RLFA
Action Stat: FLDD1A
Action Date: 05/23/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Facility ID: 4-0019118
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 05/23/2005
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 10/21/2005
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil / Haz Material Type: Oil

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 08/18/2006
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
Action Stat: Fee Received
Action Date: 10/25/2005
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
Action Stat: RAO Statement Received
Action Date: 10/21/2005
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 Stat: Completion Statement Received
Action Date: 10/21/2005
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: Notice of Responsibility
Action Stat: FLDISS
Action Date: 06/23/2005
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: Notice of Responsibility
Action Stat: ISSUED

METRO PIZZA (Continued) **S106954232**

Action Date: 06/21/2005
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: RLFA
Action Stat: FOLOFF
Action Date: 05/27/2005
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 Stat: Oral Approval of Plan
Action Date: 05/23/2005
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
Action Stat: REPORT
Action Date: 05/23/2005
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: RLFA
Action Stat: FLDD1A
Action Date: 05/23/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:
Chemical: #2 FUEL OIL
Quantity: 150 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: AST

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 08/18/2006
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
Action Stat: Fee Received
Action Date: 10/25/2005
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
Action Stat: RAO Statement Received
Action Date: 10/21/2005
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

METRO PIZZA (Continued) **S106954232**

Action Stat: Completion Statement Received
Action Date: 10/21/2005
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: Notice of Responsibility
Action Stat: FLDISS
Action Date: 06/23/2005
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/21/2005
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: RLFA
Action Stat: FOLOFF
Action Date: 05/27/2005
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 Stat: Oral Approval of Plan
Action Date: 05/23/2005
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
Action Stat: REPORT
Action Date: 05/23/2005
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: RLFA
Action Stat: FLDD1A
Action Date: 05/23/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

J53 **SHWS** **S101020574**
North **STATE PIER** **RELEASE** **N/A**
1/2-1 **NEW BEDFORD, MA** **SPILLS**
0.744 mi.
3926 ft. **Site 1 of 2 in cluster J**

Relative:
Higher

Actual:
14 ft.

SHWS:
Facility ID: 4-0017634
Release Town: NEW BEDFORD
Notification Date: 02/11/2003
Category: TWO HR
Associated ID: Not reported
Compliance Status: **Adequately Regulated**
Status Date: 11/05/2003
Phase: Not reported
Response Action Outcome Class: Not reported

(Continued) **S101020574**

Oil Or Haz Material: Oil

Chemical:
Chemical: UNIDENTIFIED PETROLEUM PRODUCT
Quantity: Not reported

Location:
Location Type: WATERBODY

Source:
Source Type: BOAT

Action:
Action Type: Response Action Outcome Not Required
Action Stat: USCG
Action Date: 11/05/2003
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDD1U
Action Date: 02/11/2003
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 02/11/2003
Response Action Outcome: Not reported

Release:
Facility ID: 4-0017634
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 02/11/2003
Category: TWO HR
Facility Status: ADQREG
Status Date: 11/05/2003
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Oil

Action:
Action Type: Response Action Outcome Not Required
Action Stat: USCG
Action Date: 11/05/2003
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDD1U
Action Date: 02/11/2003
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 02/11/2003
Response Action Outcome: Not reported

Chemical:
Chemical: UNIDENTIFIED PETROLEUM PRODUCT

(Continued) **S101020574**

Quantity: Not reported

Location:
Location Type: WATERBODY

Source:
Source Type: BOAT

Action:
Action Type: Response Action Outcome Not Required
Action Stat: USCG
Action Date: 11/05/2003
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDD1U
Action Date: 02/11/2003
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 02/11/2003
Response Action Outcome: Not reported

MA Spills:

Facility ID:	0000	Spill ID:	S87-0615
Staff Lead:	MORAN, M	Date Entered:	19871014
Last Entered:	19871014	First Response:	19870924
Spill Date:	19870923	Spill Time:	Not reported
Report Date:	19870923	Report Time:	6
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	VIRGIN	Contam Soil:	Not reported
Env Impact:	Not reported	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):	Not reported
Source:	Not reported	Other Source:	Not reported
Incident:	Not reported	Other Incdnt:	Not reported
Cleanup Type:	Not reported	Contractor:	NOT USED
Referral:	NO	LUST Elig:	Not reported
Report Prep:	Not reported	Category:	Not reported
Notifier:	Not reported		
Notif Tel:	Not reported		
Days/Close:	1		

Facility ID:	0000	Spill ID:	S92-0613
Staff Lead:	BRENNAN, S	Date Entered:	Not reported
Last Entered:	19920921	First Response:	19920812
Spill Date:	19920812	Spill Time:	02:15PM
Report Date:	19920812	Report Time:	02:20PM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	WASTE	Contam Soil:	Not reported
Env Impact:	Not reported	Other Impact:	Not reported
Material:	OTHER MATERIAL -->	Other Material:	BILGE WATER SUSPECTED
Qty Reported:	SHEEN	Qty Actual:	UNKNOWN
Qty Reported:	----------	Qty Actual:	----------

(Continued) **S101020574**

CAS No:	Not reported		PCB Lev (ppm):	NONE
Source:	BOAT		Other Source:	Not reported
Incident:	OTHER RELEASE >		Other Incdnt:	BILGE WATER
Cleanup Type:	---		Contractor:	NOT USED
Referral:	NO		LUST Elig:	NO
Report Prep:	Not reported		Category:	Not reported
Notifier:	LT JG PETIT/USCG			
Notif Tel:	Not reported			
Days/Close:	1			

Facility ID:	0000		Spill ID:	S92-0633
Staff Lead:	PACKARD, R		Date Entered:	Not reported
Last Entered:	19920909		First Response:	19920904
Spill Date:	Not reported		Spill Time:	Not reported
Report Date:	19920904		Report Time:	02:00PM
Case Closed:	YES		Mat Type:	PETROLEUM
Virgin Waste:	------		Contam Soil:	Not reported
Env Impact:	Not reported		Other Impact:	Not reported
Material:	OTHER MATERIAL	-->	Other Material:	UNKNOWN
Qty Reported:	11-50		Qty Actual:	----------
Qty Reported:	GALLONS		Qty Actual:	----------
CAS No:	Not reported		PCB Lev (ppm):	----------
Source:	OTHER SOURCE >		Other Source:	UNKNOWN
Incident:	OTHER RELEASE >		Other Incdnt:	UNKNOWN
Cleanup Type:	---		Contractor:	NOT USED
Referral:	NO		LUST Elig:	NO
Report Prep:	Not reported		Category:	Not reported
Notifier:	LT PHILLIPS/USCG			
Notif Tel:	Not reported			
Days/Close:	1			

Facility ID:	0000		Spill ID:	S92-0232
Staff Lead:	BRENNAN, S		Date Entered:	Not reported
Last Entered:	19920417		First Response:	19920407
Spill Date:	19920407		Spill Time:	11:40AM
Report Date:	19920407		Report Time:	11:45AM
Case Closed:	YES		Mat Type:	PETROLEUM
Virgin Waste:	WASTE		Contam Soil:	Not reported
Env Impact:	Not reported		Other Impact:	Not reported
Material:	OTHER MATERIAL	-->	Other Material:	EMULSIFIED OIL
Qty Reported:	SHEEN		Qty Actual:	----------
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
Referral:	NO		LUST Elig:	NO
Report Prep:	Not reported		Category:	Not reported
Notifier:	PO MADDEN/USCG			
Notif Tel:	Not reported			
Days/Close:	1			

Facility ID:	0000	Spill ID:	S92-0678
Staff Lead:	PINAUD, L	Date Entered:	Not reported
Last Entered:	19920923	First Response:	19920922
Spill Date:	19920922	Spill Time:	07:55AM
Report Date:	19920922	Report Time:	08:45AM

(Continued) **S101020574**

Case Closed:	YES		Mat Type:	PETROLEUM
Virgin Waste:	------		Contam Soil:	Not reported
Env Impact:	Not reported		Other Impact:	Not reported
Material:	OTHER MATERIAL	-->	Other Material:	UNKNOWN
Qty Reported:	----------		Qty Actual:	----------
Qty Reported:	----------		Qty Actual:	----------
CAS No:	Not reported		PCB Lev (ppm):	----------
Source:	VEH. FUEL TANK		Other Source:	Not reported
Incident:	OTHER RELEASE >		Other Incdnt:	UNKNOWN
Cleanup Type:	---		Contractor:	NOT USED
Referral:	NO		LUST Elig:	NO
Report Prep:	Not reported		Category:	Not reported
Notifier:	LT TINA BURKE/USCG			
Notif Tel:	Not reported			
Days/Close:	1			

Facility ID:	0000		Spill ID:	S92-0499
Staff Lead:	BRENNAN, S		Date Entered:	Not reported
Last Entered:	19920727		First Response:	19920719
Spill Date:	Not reported		Spill Time:	Not reported
Report Date:	19920719		Report Time:	10:50AM
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:	UNKNOWN
Qty Reported:	----------		Qty Actual:	----------
Qty Reported:	----------		Qty Actual:	----------
CAS No:	Not reported		PCB Lev (ppm):	NONE
Source:	BOAT		Other Source:	Not reported
Incident:	----------		Other Incdnt:	Not reported
Cleanup Type:	---		Contractor:	NOT USED
Referral:	NO		LUST Elig:	NO
Report Prep:	Not reported		Category:	Not reported
Notifier:	JOSEPH PRENDA			
Notif Tel:	Not reported			
Days/Close:	1			

Facility ID:	0000		Spill ID:	S91-0378
Staff Lead:	PINAUD, L		Date Entered:	19920228
Last Entered:	19920228		First Response:	19910710
Spill Date:	19910705		Spill Time:	11:00AM
Report Date:	19910710		Report Time:	01:30PM
Case Closed:	YES		Mat Type:	PETROLEUM
Virgin Waste:	VIRGIN		Contam Soil:	Not reported
Env Impact:	Not reported		Other Impact:	Not reported
Material:	DIESEL FUEL		Other Material:	Not reported
Qty Reported:	10-50		Qty Actual:	----------
Qty Reported:	GALLONS		Qty Actual:	----------
CAS No:	Not reported		PCB Lev (ppm):	NONE
Source:	BOAT		Other Source:	Not reported
Incident:	OVERFILL		Other Incdnt:	Not reported
Cleanup Type:	---		Contractor:	NOT USED
Referral:	NO		LUST Elig:	---
Report Prep:	Not reported		Category:	Not reported
Notifier:	CHRIS BLAKE/FRANK CORP			
Notif Tel:	Not reported			
Days/Close:	1			

(Continued) **S101020574**

Facility ID:	0000	Spill ID:	S90-0703
Staff Lead:	PINAUD, L	Date Entered:	Not reported
Last Entered:	19901001	First Response:	19900925
Spill Date:	19900925	Spill Time:	Not reported
Report Date:	19900925	Report Time:	10:05AM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	------	Contam Soil:	Not reported
Env Impact:	Not reported	Other Impact:	Not reported
Material:	MISCELLANEOUS OIL	Other Material:	Not reported
Qty Reported:	SHEEN	Qty Actual:	SHEEN
Qty Reported:	----------	Qty Actual:	----------
CAS No:	Not reported	PCB Lev (ppm):	----------
Source:	BOAT	Other Source:	Not reported
Incident:	OTHER RELEASE >	Other Incdnt:	ALLEGED LEAK
Cleanup Type:	---	Contractor:	NOT USED
Referral:	NO	LUST Elig:	NO
Report Prep:	Not reported	Category:	Not reported
Notifier:	PETTY OFC GRENIER/PROV		
Notif Tel:	Not reported		
Days/Close:	1		

Facility ID:	0000	Spill ID:	S90-0522
Staff Lead:	PACKARD, R	Date Entered:	Not reported
Last Entered:	19900720	First Response:	19900717
Spill Date:	Not reported	Spill Time:	Not reported
Report Date:	19900717	Report Time:	08:36AM
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:	MILKY WHITE SUBSTANCE
Qty Reported:	251-500	Qty Actual:	UNKNOWN
Qty Reported:	GALLONS	Qty Actual:	----------
CAS No:	Not reported	PCB Lev (ppm):	----------
Source:	OTHER SOURCE >	Other Source:	MILKY WHITE
Incident:	OTHER RELEASE >	Other Incdnt:	FOAM ON WATER
Cleanup Type:	---	Contractor:	NOT USED
Referral:	NO	LUST Elig:	NO
Report Prep:	Not reported	Category:	Not reported
Notifier:	P.O. DECLEMENTE/USCG		
Notif Tel:	Not reported		
Days/Close:	1		

J54 **NEW BEDFORD HARBOR** **SHWS** **S101046746**
NNW **ACUSHNET ESTUARY** **RELEASE** **N/A**
1/2-1 **NEW BEDFORD, MA 02740**
0.744 mi.
3928 ft. **Site 2 of 2 in cluster J**

Relative:
Higher

Actual:
14 ft.

SHWS:

Facility ID:	4-0000122
Release Town:	NEW BEDFORD
Notification Date:	01/15/1987
Category:	NONE
Associated ID:	4-0000122
Compliance Status:	**Tier 1A, a release receiving a total score equal to or greater then 550. These sites/releases require a permit and the person undertaking response actions must do so under direct DEP supervision.**
Status Date:	10/01/1993

NEW BEDFORD HARBOR (Continued) **S101046746**

Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:
Chemical: PCBS
Quantity: Not reported

Location:
Location Type: WETLANDS
Location Type: WATERBODY

Source:
Source Type: UNCONTAIN

Action:
Action Type: Tier Classification
Action Stat: LNKVTC
Action Date: 10/01/1993
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 1A Classification
Action Date: 10/01/1993
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 10/01/1993
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/15/1987
Response Action Outcome: Not reported

Release:
Facility ID: 4-0000122
Primary ID: 4-0000122
Official City: NEW BEDFORD
Notification: 01/15/1987
Category: NONE
Facility Status: TIER1A
Status Date: 10/01/1993
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: Tier Classification
Action Stat: LNKVTC
Action Date: 10/01/1993
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 1A Classification
Action Date: 10/01/1993
Response Action Outcome: Not reported

NEW BEDFORD HARBOR (Continued) **S101046746**

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 10/01/1993
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/15/1987
Response Action Outcome: Not reported

Chemical:
Chemical: PCBS
Quantity: Not reported

Location:
Location Type: WETLANDS
Location Type: WATERBODY

Source:
Source Type: UNCONTAIN

Action:
Action Type: Tier Classification
Action Stat: LNKVTC
Action Date: 10/01/1993
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 1A Classification
Action Date: 10/01/1993
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 10/01/1993
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/15/1987
Response Action Outcome: Not reported

K55 **FINICKY PET FOOD INC** **SHWS** **S107678061**
NNW **16 FRONT ST** **RELEASE** **N/A**
1/2-1 **NEW BEDFORD, MA**
0.769 mi.
4060 ft. **Site 1 of 4 in cluster K**

Relative:
Higher

Actual:
19 ft.

SHWS:
Facility ID: 4-0019657
Release Town: NEW BEDFORD
Notification Date: 03/08/2006
Category: TWO HR
Associated ID: Not reported
Compliance Status: **Release Action Outcome**
Status Date: 05/04/2006
Phase: Not reported
Response Action Outcome Class: A1

FINICKY PET FOOD INC (Continued) **S107678061**

Oil Or Haz Material: Hazardous Material

Chemical:
Chemical: ANHYDROUS AMMONIA
Quantity: Not reported

Location:
Location Type: COMMERCIAL
Location Type: INDUSTRIAL

Source:
Source Type: PIPE

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 03/06/2007
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
Action Stat: RAO Statement Received
Action Date: 05/04/2006
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 Stat: Completion Statement Received
Action Date: 05/04/2006
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 04/04/2006
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 Stat: REPORT
Action Date: 03/22/2006
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: RLFA
Action Stat: FOLOFF
Action Date: 03/13/2006
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: Notice of Responsibility
Action Stat: FLDISS
Action Date: 03/08/2006
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: Release
Action Stat: REPORT
Action Date: 03/08/2006

FINICKY PET FOOD INC (Continued) **S107678061**

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 Stat: FLDD1U
Action Date: 03/08/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Facility ID: 4-0019657
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 03/08/2006
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 05/04/2006
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil / Haz Material Type: Hazardous Material

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 03/06/2007
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
Action Stat: RAO Statement Received
Action Date: 05/04/2006
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 Stat: Completion Statement Received
Action Date: 05/04/2006
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 04/04/2006
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 Stat: REPORT
Action Date: 03/22/2006
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: RLFA
Action Stat: FOLOFF
Action Date: 03/13/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced

FINICKY PET FOOD INC (Continued) **S107678061**

to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility
Action Stat: FLDISS
Action Date: 03/08/2006
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: Release
Action Stat: REPORT
Action Date: 03/08/2006
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: RLFA
Action Stat: FLDD1U
Action Date: 03/08/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:
Chemical: ANHYDROUS AMMONIA
Quantity: Not reported

Location:
Location Type: COMMERCIAL
Location Type: INDUSTRIAL

Source:
Source Type: PIPE

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 03/06/2007
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
Action Stat: RAO Statement Received
Action Date: 05/04/2006
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 Stat: Completion Statement Received
Action Date: 05/04/2006
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 04/04/2006
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 Stat: REPORT

FINICKY PET FOOD INC (Continued) **S107678061**

Action Date: 03/22/2006
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: RLFA
Action Stat: FOLOFF
Action Date: 03/13/2006
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: Notice of Responsibility
Action Stat: FLDISS
Action Date: 03/08/2006
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: Release
Action Stat: REPORT
Action Date: 03/08/2006
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: RLFA
Action Stat: FLDD1U
Action Date: 03/08/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

K56 **DELKEN CO** **RCRA-CESQG** **1000268640**
NNW **16 FRONT ST** **FINDS** **MAD108002494**
1/2-1 **NEW BEDFORD, MA 02740** **SHWS**
0.769 mi. **RELEASE**
4060 ft. **Site 2 of 4 in cluster K** **DRYCLEANERS**

Relative:
Higher

Actual:
19 ft.

RCRA-CESQG:
Date form received by agency: 11/26/1986
Facility name: DELKEN CO
Facility address: 16 FRONT ST
NEW BEDFORD, MA 02740
EPA ID: MAD108002494
Mailing address: PO BOX M128
NEW BEDFORD, MA 02744
Contact: SHERMAN ELWIN
Contact address: PO BOX M128
NEW BEDFORD, MA 02744
Contact country: US
Contact telephone: (508) 990-0289
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

DELKEN CO (Continued) **1000268640**

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:	DELKEN CO
Owner/operator address:	PO BOX M128 NEW BEDFORD, MA 02744
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:	KENNETH NANFELT
Owner/operator address:	PO BOX M128 NEW BEDFORD, MA 02744
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
Off-site waste receiver:	Commercial status unknown

Facility Has Received Notices of Violations:

Regulation violated:	SR - 340(1)(b)
Area of violation:	Generators - Pre-transport
Date violation determined:	12/12/1995
Date achieved compliance:	01/29/1996
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	12/28/1995

DELKEN CO (Continued) **1000268640**

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 - 351(9)
Area of violation: Generators - General
Date violation determined: 12/12/1995
Date achieved compliance: 01/29/1996
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/28/1995
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 - 314(1)
Area of violation: Generators - Manifest
Date violation determined: 12/12/1995
Date achieved compliance: 01/29/1996
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/28/1995
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 - 253(5)(b)
Area of violation: Generators - General
Date violation determined: 12/12/1995
Date achieved compliance: 01/29/1996
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/28/1995
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 - 685(4)
Area of violation: Generators - Pre-transport
Date violation determined: 12/12/1995
Date achieved compliance: 01/29/1996
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/28/1995
Enf. disposition status: Not reported

DELKEN CO (Continued) **1000268640**

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 - 340(1)(i)(K)
Area of violation: Generators - Pre-transport
Date violation determined: 12/12/1995
Date achieved compliance: 01/29/1996
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/28/1995
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: 01/29/1996
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/12/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 01/29/1996
Evaluation lead agency: State

Evaluation date: 12/12/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 01/29/1996
Evaluation lead agency: State

Evaluation date: 12/12/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Manifest
Date achieved compliance: 01/29/1996
Evaluation lead agency: State

FINDS:

Registry ID: 110003450140

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.

DELKEN CO (Continued) **1000268640**

MA-EPICS - Massachussetts Environmental Protection Integrated Computer System

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

SHWS:

Facility ID:	4-0014501
Release Town:	NEW BEDFORD
Notification Date:	02/06/1999
Category:	TWO HR
Associated ID:	Not reported
Compliance Status:	**Release Action Outcome**
Status Date:	04/06/1999
Phase:	Not reported
Response Action Outcome Class:	A1
Oil Or Haz Material:	Hazardous Material

Chemical:

Chemical:	ANHYDROUS AMMONIA
Quantity:	2 pounds

Location:

Location Type:	COMMERCIAL
Location Type:	INDUSTRIAL

Source:

Source Type:	PIPE

Action:

Action Type:	Response Action Outcome
Action Stat:	Level I - Technical Screen Audit
Action Date:	02/03/2005
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 Stat:	Completion Statement Received
Action Date:	04/06/1999
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
Action Stat:	RAO Statement Received
Action Date:	04/06/1999
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced

DELKEN CO (Continued) **1000268640**

to background or a threat of release has been eliminated.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 02/17/1999
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: RNF
Action Stat: REPORT
Action Date: 02/10/1999
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: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 02/06/1999
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
Action Stat: REPORT
Action Date: 02/06/1999
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: RLFA
Action Stat: FLDD1U
Action Date: 02/06/1999
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: Notice of Responsibility
Action Stat: FLDISS
Action Date: 02/06/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Facility ID: 4-0014501
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 02/06/1999
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 04/06/1999
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil / Haz Material Type: Hazardous Material

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 02/03/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

DELKEN CO (Continued) **1000268640**

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 04/06/1999
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
Action Stat: RAO Statement Received
Action Date: 04/06/1999
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 02/17/1999
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: RNF
Action Stat: REPORT
Action Date: 02/10/1999
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: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 02/06/1999
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
Action Stat: REPORT
Action Date: 02/06/1999
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: RLFA
Action Stat: FLDD1U
Action Date: 02/06/1999
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: Notice of Responsibility
Action Stat: FLDISS
Action Date: 02/06/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:
Chemical: ANHYDROUS AMMONIA
Quantity: 2 pounds

Location:
Location Type: COMMERCIAL
Location Type: INDUSTRIAL

Source:
Source Type: PIPE

DELKEN CO (Continued) **1000268640**

Action:

Action Type:	Response Action Outcome
Action Stat:	Level I - Technical Screen Audit
Action Date:	02/03/2005
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 Stat:	Completion Statement Received
Action Date:	04/06/1999
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
Action Stat:	RAO Statement Received
Action Date:	04/06/1999
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:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	02/17/1999
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:	RNF
Action Stat:	REPORT
Action Date:	02/10/1999
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:	Immediate Response
Action Stat:	Oral Approval of Plan
Action Date:	02/06/1999
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
Action Stat:	REPORT
Action Date:	02/06/1999
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:	RLFA
Action Stat:	FLDD1U
Action Date:	02/06/1999
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:	Notice of Responsibility
Action Stat:	FLDISS
Action Date:	02/06/1999
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

DELKEN CO (Continued) **1000268640**

Drycleaners:
Facility ID: 9928
Class Type Code: ERDCNA

57
NW
1/2-1
0.776 mi.
4097 ft.

NBPD PARKING LOT
25 SPRING ST
NEW BEDFORD, MA

SHWS **S103546682**
RELEASE **N/A**

Relative:
Higher

Actual:
26 ft.

SHWS:
Facility ID: 4-0014305
Release Town: NEW BEDFORD
Notification Date: 11/03/1998
Category: 120 DY
Associated ID: Not reported
Compliance Status: **Release Action Outcome**
Status Date: 12/01/1998
Phase: Not reported
Response Action Outcome Class: A1
Oil Or Haz Material: Hazardous Material

Chemical:
Chemical: BENZO(K)FLUORANTHENE
Quantity: 3.5 parts per million
Chemical: LEAD
Quantity: 1100 parts per million
Chemical: BENZO[A]ANTHRACENE
Quantity: 3.6 parts per million

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Revised Statement or Transmittal Received
Action Date: 04/20/1999
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
Action Stat: RAO Statement Received
Action Date: 12/01/1998
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 Stat: REPORT
Action Date: 11/03/1998
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: Release
Action Stat: REPORT
Action Date: 11/03/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced

NBPD PARKING LOT (Continued) **S103546682**

to background or a threat of release has been eliminated.

Release:

Facility ID:	4-0014305
Primary ID:	Not reported
Official City:	NEW BEDFORD
Notification:	11/03/1998
Category:	120 DY
Facility Status:	Response Action Outcome
Status Date:	12/01/1998
Phase:	Not reported
Rspns Actn Outcome Class:	A1
Oil / Haz Material Type:	Hazardous Material

Action:

Action Type:	Response Action Outcome
Action Stat:	Revised Statement or Transmittal Received
Action Date:	04/20/1999
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
Action Stat:	RAO Statement Received
Action Date:	12/01/1998
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 Stat:	REPORT
Action Date:	11/03/1998
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:	Release
Action Stat:	REPORT
Action Date:	11/03/1998
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:

Chemical:	BENZO(K)FLUORANTHENE
Quantity:	3.5 parts per million
Chemical:	LEAD
Quantity:	1100 parts per million
Chemical:	BENZO[A]ANTHRACENE
Quantity:	3.6 parts per million

Location:

Location Type:	Not reported

Source:

Source Type:	Not reported

Action:

Action Type:	Response Action Outcome
Action Stat:	Revised Statement or Transmittal Received
Action Date:	04/20/1999

NBPD PARKING LOT (Continued) **S103546682**

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
Action Stat: RAO Statement Received
Action Date: 12/01/1998
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 Stat: REPORT
Action Date: 11/03/1998
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: Release
Action Stat: REPORT
Action Date: 11/03/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

58
SSE
1/2-1
0.780 mi.
4118 ft.

MOTT STREET PARK **SHWS** **S107405560**
99 CLEVELAND ST **RELEASE** **N/A**
NEW BEDFORD, MA

Relative:
Equal

Actual:
0 ft.

SHWS:
Facility ID: 4-0019279
Release Town: NEW BEDFORD
Notification Date: 08/12/2005
Category: 120 DY
Associated ID: Not reported
Compliance Status: **Release Action Outcome**
Status Date: 08/12/2005
Phase: Not reported
Response Action Outcome Class: B1
Oil Or Haz Material: Hazardous Material

Chemical:
Chemical: POLYCHLORINATED BIPHENYL, N.O.S.
Quantity: 9.6 parts per million

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 09/15/2005
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF
Action Stat: REPORT
Action Date: 08/12/2005

MOTT STREET PARK (Continued) **S107405560**

Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release
Action Stat: REPORT
Action Date: 08/12/2005
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/12/2005
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Release:
Facility ID: 4-0019279
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 08/12/2005
Category: 120 DY
Facility Status: Response Action Outcome
Status Date: 08/12/2005
Phase: Not reported
Rspns Actn Outcome Class: B1
Oil / Haz Material Type: Hazardous Material

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 09/15/2005
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF
Action Stat: REPORT
Action Date: 08/12/2005
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release
Action Stat: REPORT
Action Date: 08/12/2005
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/12/2005
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Chemical:
Chemical: POLYCHLORINATED BIPHENYL, N.O.S.
Quantity: 9.6 parts per million

MOTT STREET PARK (Continued) **S107405560**

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 09/15/2005
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF
Action Stat: REPORT
Action Date: 08/12/2005
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release
Action Stat: REPORT
Action Date: 08/12/2005
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/12/2005
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

L59 **PROPERTY** **SHWS** **S105811050**
WSW **486 SOUTH ORCHARD ST** **RELEASE** **N/A**
1/2-1 **NEW BEDFORD, MA** **INST CONTROL**
0.781 mi.
4125 ft. **Site 1 of 2 in cluster L**

Relative:
Equal

Actual:
0 ft.

SHWS:
Facility ID: 4-0000467
Release Town: NEW BEDFORD
Notification Date: 01/15/1988
Category: NONE
Associated ID: Not reported
Compliance Status: **Release Action Outcome**
Status Date: 04/12/2000
Phase: Not reported
Response Action Outcome Class: A3
Oil Or Haz Material: Oil

Chemical:
Chemical: GASOLINE
Quantity: Not reported
Chemical: PETROLEUM
Quantity: Not reported

Location:
Location Type: FORMER
Location Type: TANK FARM

PROPERTY (Continued) **S105811050**

Source:
Source Type: Not reported

Action:
Action Type: BWS10
Action Stat: NOTREQ
Action Date: Not reported
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM
Action Stat: Audit Follow-up Completion Statement Received
Action Date: 06/14/2002
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: AUDCOM
Action Stat: RTCLET
Action Date: 06/13/2002
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: AUDCOM
Action Stat: INTLET
Action Date: 03/27/2002
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: AUDCOM
Action Stat: Written Approval of Plan
Action Date: 03/27/2002
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: AUDCOM
Action Stat: AFUPLN
Action Date: 01/30/2002
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: AUDCOM
Action Stat: FOLREQ
Action Date: 01/04/2002
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: AUDCOM
Action Stat: NAFNON
Action Date: 01/04/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

PROPERTY (Continued) **S105811050**

reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 01/04/2002
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 Stat: Level I - Technical Screen Audit
Action Date: 01/04/2002
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: C&E
Action Stat: NON
Action Date: 01/04/2002
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: RLFA
Action Stat: FLDD1A
Action Date: 10/12/2001
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
Action Stat: Level I - Technical Screen Audit
Action Date: 08/30/2001
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
Action Stat: RAO Statement Received
Action Date: 04/12/2000
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: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 02/25/2000
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 Stat: Tier 1B Classification
Action Date: 03/18/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

PROPERTY (Continued) **S105811050**

been implemented.

Action Type: Tier Classification
Action Stat: DEPDIS
Action Date: 03/18/1998
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: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 07/28/1997
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: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 07/28/1997
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: TREGS
Action Stat: BWSC05
Action Date: 08/29/1994
Response Action Outcome: A 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 Stat: PEREFF
Action Date: 08/29/1994
Response Action Outcome: A 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 Stat: Transmittal Received
Action Date: 08/29/1994
Response Action Outcome: A 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 Stat: Tier 1B Classification
Action Date: 08/29/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/26/1989
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

PROPERTY (Continued) **S105811050**

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/15/1988
Response Action 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:
Facility ID: 4-0000467
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 01/15/1988
Category: NONE
Facility Status: Response Action Outcome
Status Date: 04/12/2000
Phase: Not reported
Rspns Actn Outcome Class: A3
Oil / Haz Material Type: Oil

Action:
Action Type: BWS10
Action Stat: NOTREQ
Action Date: Not reported
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM
Action Stat: Audit Follow-up Completion Statement Received
Action Date: 06/14/2002
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: AUDCOM
Action Stat: RTCLET
Action Date: 06/13/2002
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: AUDCOM
Action Stat: INTLET
Action Date: 03/27/2002
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: AUDCOM
Action Stat: Written Approval of Plan
Action Date: 03/27/2002
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: AUDCOM

PROPERTY (Continued) **S105811050**

Action Stat: AFUPLN
Action Date: 01/30/2002
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: AUDCOM
Action Stat: FOLREQ
Action Date: 01/04/2002
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: AUDCOM
Action Stat: NAFNON
Action Date: 01/04/2002
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
Action Stat: Level I - Technical Screen Audit
Action Date: 01/04/2002
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 Stat: Level I - Technical Screen Audit
Action Date: 01/04/2002
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: C&E
Action Stat: NON
Action Date: 01/04/2002
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: RLFA
Action Stat: FLDD1A
Action Date: 10/12/2001
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
Action Stat: Level I - Technical Screen Audit
Action Date: 08/30/2001
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
Action Stat: RAO Statement Received

PROPERTY (Continued) **S105811050**

Action Date: 04/12/2000
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: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 02/25/2000
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 Stat: Tier 1B Classification
Action Date: 03/18/1998
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: Tier Classification
Action Stat: DEPDIS
Action Date: 03/18/1998
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: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 07/28/1997
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: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 07/28/1997
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: TREGS
Action Stat: BWSC05
Action Date: 08/29/1994
Response Action Outcome: A 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 Stat: PEREFF
Action Date: 08/29/1994
Response Action Outcome: A 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 Stat: Transmittal Received
Action Date: 08/29/1994

PROPERTY (Continued) **S105811050**

Response Action Outcome: A 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 Stat: Tier 1B Classification
Action Date: 08/29/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/26/1989
Response Action Outcome: A 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
Action Stat: TCTRNS
Action Date: 01/15/1988
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Chemical:
Chemical: GASOLINE
Quantity: Not reported
Chemical: PETROLEUM
Quantity: Not reported

Location:
Location Type: FORMER
Location Type: TANK FARM

Source:
Source Type: Not reported

Action:
Action Type: BWS10
Action Stat: NOTREQ
Action Date: Not reported
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: AUDCOM
Action Stat: Audit Follow-up Completion Statement Received
Action Date: 06/14/2002
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: AUDCOM
Action Stat: RTCLET
Action Date: 06/13/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

PROPERTY (Continued) **S105811050**

been implemented.

Action Type: AUDCOM
Action Stat: INTLET
Action Date: 03/27/2002
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: AUDCOM
Action Stat: Written Approval of Plan
Action Date: 03/27/2002
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: AUDCOM
Action Stat: AFUPLN
Action Date: 01/30/2002
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: AUDCOM
Action Stat: FOLREQ
Action Date: 01/04/2002
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: AUDCOM
Action Stat: NAFNON
Action Date: 01/04/2002
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
Action Stat: Level I - Technical Screen Audit
Action Date: 01/04/2002
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 Stat: Level I - Technical Screen Audit
Action Date: 01/04/2002
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: C&E
Action Stat: NON
Action Date: 01/04/2002
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.

PROPERTY (Continued) **S105811050**

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 10/12/2001
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
Action Stat: Level I - Technical Screen Audit
Action Date: 08/30/2001
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
Action Stat: RAO Statement Received
Action Date: 04/12/2000
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: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 02/25/2000
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 Stat: Tier 1B Classification
Action Date: 03/18/1998
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: Tier Classification
Action Stat: DEPDIS
Action Date: 03/18/1998
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: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 07/28/1997
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: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 07/28/1997
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: TREGS

PROPERTY (Continued) **S105811050**

Action Stat: BWSC05
Action Date: 08/29/1994
Response Action Outcome: A 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 Stat: PEREFF
Action Date: 08/29/1994
Response Action Outcome: A 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 Stat: Transmittal Received
Action Date: 08/29/1994
Response Action Outcome: A 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 Stat: Tier 1B Classification
Action Date: 08/29/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/26/1989
Response Action Outcome: A 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
Action Stat: TCTRNS
Action Date: 01/15/1988
Response Action 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: 4-0000467
Action Type: AUL
Action Stat: RECPT
Action Date: 02/25/2000
Response Action Outcome: A3

Release Tracking Number: 4-0000467
Action Type: AUL
Action Stat: TSAUD
Action Date: 01/04/2002
Response Action Outcome: A3

60 South 1/2-1 0.783 mi. 4137 ft. | **REAR OF PROPERTY**
89 WEST RODNEY FRENCH BLVD
NEW BEDFORD, MA 02744 | **SHWS RELEASE** | **S104232365 N/A**

Relative: Higher

Actual: 1 ft.

SHWS:

Facility ID:	4-0010081
Release Town:	NEW BEDFORD
Notification Date:	11/09/1993
Category:	TWO HR
Associated ID:	Not reported
Compliance Status:	**Release Action Outcome**
Status Date:	01/28/1994
Phase:	Not reported
Response Action Outcome Class:	A1
Oil Or Haz Material:	Oil

Chemical:

Chemical:	DIESEL FUEL
Quantity:	100 gallons

Location:

Location Type:	INDUSTRIAL

Source:

Source Type:	PIPE

Action:

Action Type:	Immediate Response
Action Stat:	Completion Statement Received
Action Date:	01/28/1994
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:	Immediate Response
Action Stat:	Written Plan Received
Action Date:	01/28/1994
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 Stat:	REPORT
Action Date:	01/28/1994
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
Action Stat:	RAO Statement Received
Action Date:	01/28/1994
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 Stat:	FOLOFF
Action Date:	11/09/1993
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
Action Stat:	REPORT

REAR OF PROPERTY (Continued) **S104232365**

Action Date: 11/09/1993
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Facility ID: 4-0010081
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 11/09/1993
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 01/28/1994
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil / Haz Material Type: Oil

Action:
Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 01/28/1994
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: Immediate Response
Action Stat: Written Plan Received
Action Date: 01/28/1994
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 Stat: REPORT
Action Date: 01/28/1994
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
Action Stat: RAO Statement Received
Action Date: 01/28/1994
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 Stat: FOLOFF
Action Date: 11/09/1993
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
Action Stat: REPORT
Action Date: 11/09/1993
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:
Chemical: DIESEL FUEL
Quantity: 100 gallons

REAR OF PROPERTY (Continued) **S104232365**

Location:
Location Type: INDUSTRIAL

Source:
Source Type: PIPE

Action:
Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 01/28/1994
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: Immediate Response
Action Stat: Written Plan Received
Action Date: 01/28/1994
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 Stat: REPORT
Action Date: 01/28/1994
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
Action Stat: RAO Statement Received
Action Date: 01/28/1994
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 Stat: FOLOFF
Action Date: 11/09/1993
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
Action Stat: REPORT
Action Date: 11/09/1993
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

L61
WSW
1/2-1
0.793 mi.
4185 ft.

Relative:
Equal

Actual:
0 ft.

GOODYEAR TIRE & RUBBER
545 ORCHARD ST
NEW BEDFORD, MA

Site 2 of 2 in cluster L

LUST **S101035644**
SPILLS **N/A**
RELEASE
INST CONTROL

LUST:

Facility:
Facility ID: 4-0000688
Facility Status: **Release Action Outcome**
Status Date: 04/19/2000
Source Type: UST
Release Town: NEW BEDFORD
Notification Date: 04/15/1989

GOODYEAR TIRE & RUBBER (Continued) **S101035644**

Category: NONE
Associated ID: Not reported
Phase: Not reported
Rspns Actn Outcome Class: A3
Oil Or Haz Material: Oil

Chemical:
Chemical: WATER
Quantity: Not reported

Location:
Location Type: MANUFACT

Source:
Source Type: UST

Action:
Action Type: AUDCOM
Action Stat: Audit Follow-up Completion Statement Received
Action Date: 03/29/2006
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: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 03/29/2006
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: Activity and Use Limitation
Action Stat: Action, Status, or AUL Terminated
Action Date: 03/29/2006
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: Activity and Use Limitation
Action Stat: Confirmatory AUL received
Action Date: 03/29/2006
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: Activity and Use Limitation
Action Stat: Legal Notice Published
Action Date: 03/20/2006
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: C&E
Action Stat: ACO
Action Date: 01/24/2006
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.

GOODYEAR TIRE & RUBBER (Continued) **S101035644**

Action Type:	Activity and Use Limitation
Action Stat:	Level II - Audit Inspection
Action Date:	03/31/2005
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:	AUDCOM
Action Stat:	NAFNON
Action Date:	03/31/2005
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 Stat:	FLDRUN
Action Date:	03/03/2005
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:	Activity and Use Limitation
Action Stat:	Level II - Audit Inspection
Action Date:	03/03/2005
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 Stat:	FLDRUN
Action Date:	02/09/2005
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:	Activity and Use Limitation
Action Stat:	Level II - Audit Inspection
Action Date:	02/09/2005
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
Action Stat:	Fee Not Required, Fee Credited
Action Date:	11/13/2001
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:	Activity and Use Limitation
Action Stat:	Level I - Technical Screen Audit
Action Date:	10/11/2001
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

GOODYEAR TIRE & RUBBER (Continued) **S101035644**

Action Stat: Level I - Technical Screen Audit
Action Date: 09/05/2001
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
Action Stat: Fee Received
Action Date: 05/03/2000
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 II
Action Stat: Scope of Work Received
Action Date: 04/19/2000
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: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 04/19/2000
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
Action Stat: RAO Statement Received
Action Date: 04/19/2000
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 Stat: Tier 2 Classification
Action Date: 11/24/1997
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 Stat: Tier 2 Extension
Action Date: 07/19/1997
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: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 01/08/1997
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: C&E
Action Stat: NON

GOODYEAR TIRE & RUBBER (Continued) **S101035644**

Action Date: 09/20/1996
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: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 08/12/1996
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: RLFA
Action Stat: FLDRUN
Action Date: 06/18/1996
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: Phase II
Action Stat: Scope of Work Received
Action Date: 04/05/1993
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: TREGS
Action Stat: WAVACC
Action Date: 11/24/1992
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 Stat: Transmittal Received
Action Date: 11/24/1992
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: TREGS
Action Stat: WAVSIG
Action Date: 10/23/1992
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: TREGS
Action Stat: WAVREC
Action Date: 09/18/1992
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
Action Stat: TCTRNS
Action Date: 04/15/1989

GOODYEAR TIRE & RUBBER (Continued) **S101035644**

Response Action Outcome: 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:	4-0688		Spill ID:	S90-0033
Staff Lead:	MORAN, M		Date Entered:	Not reported
Last Entered:	19900126		First Response:	19900112
Spill Date:	Not reported		Spill Time:	Not reported
Report Date:	19900110		Report Time:	11:00AM
Case Closed:	YES		Mat Type:	PETROLEUM
Virgin Waste:	VIRGIN		Contam Soil:	Not reported
Env Impact:	SOIL		Other Impact:	Not reported
Material:	OTHER MATERIAL	-->	Other Material:	OIL/SOLVENTS
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:	H HUMPHREYS			
Notif Tel:	Not reported			
Days/Close:	1			

Release:

Facility ID:	4-0000688
Primary ID:	Not reported
Official City:	NEW BEDFORD
Notification:	04/15/1989
Category:	NONE
Facility Status:	Response Action Outcome
Status Date:	04/19/2000
Phase:	Not reported
Rspns Actn Outcome Class:	A3
Oil / Haz Material Type:	Oil

Action:

Action Type:	AUDCOM
Action Stat:	Audit Follow-up Completion Statement Received
Action Date:	03/29/2006
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:	Activity and Use Limitation
Action Stat:	Transmittal Received
Action Date:	03/29/2006
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:	Activity and Use Limitation
Action Stat:	Action, Status, or AUL Terminated
Action Date:	03/29/2006

GOODYEAR TIRE & RUBBER (Continued) **S101035644**

Response Action Outcome: A 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 Stat: Confirmatory AUL received
Action Date: 03/29/2006
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: Activity and Use Limitation
Action Stat: Legal Notice Published
Action Date: 03/20/2006
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: C&E
Action Stat: ACO
Action Date: 01/24/2006
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: Activity and Use Limitation
Action Stat: Level II - Audit Inspection
Action Date: 03/31/2005
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: AUDCOM
Action Stat: NAFNON
Action Date: 03/31/2005
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 Stat: FLDRUN
Action Date: 03/03/2005
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: Activity and Use Limitation
Action Stat: Level II - Audit Inspection
Action Date: 03/03/2005
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 Stat: FLDRUN
Action Date: 02/09/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

GOODYEAR TIRE & RUBBER (Continued) **S101035644**

reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Level II - Audit Inspection
Action Date: 02/09/2005
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
Action Stat: Fee Not Required, Fee Credited
Action Date: 11/13/2001
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: Activity and Use Limitation
Action Stat: Level I - Technical Screen Audit
Action Date: 10/11/2001
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
Action Stat: Level I - Technical Screen Audit
Action Date: 09/05/2001
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
Action Stat: Fee Received
Action Date: 05/03/2000
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 II
Action Stat: Scope of Work Received
Action Date: 04/19/2000
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: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 04/19/2000
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
Action Stat: RAO Statement Received
Action Date: 04/19/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

GOODYEAR TIRE & RUBBER (Continued) **S101035644**

been implemented.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 11/24/1997
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 Stat: Tier 2 Extension
Action Date: 07/19/1997
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: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 01/08/1997
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: C&E
Action Stat: NON
Action Date: 09/20/1996
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: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 08/12/1996
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: RLFA
Action Stat: FLDRUN
Action Date: 06/18/1996
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: Phase II
Action Stat: Scope of Work Received
Action Date: 04/05/1993
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: TREGS
Action Stat: WAVACC
Action Date: 11/24/1992
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.

GOODYEAR TIRE & RUBBER (Continued) **S101035644**

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 11/24/1992
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: TREGS
Action Stat: WAVSIG
Action Date: 10/23/1992
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: TREGS
Action Stat: WAVREC
Action Date: 09/18/1992
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
Action Stat: TCTRNS
Action Date: 04/15/1989
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Chemical:
Chemical: WATER
Quantity: Not reported

Location:
Location Type: MANUFACT

Source:
Source Type: UST

Action:
Action Type: AUDCOM
Action Stat: Audit Follow-up Completion Statement Received
Action Date: 03/29/2006
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: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 03/29/2006
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: Activity and Use Limitation
Action Stat: Action, Status, or AUL Terminated
Action Date: 03/29/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

GOODYEAR TIRE & RUBBER (Continued) **S101035644**

been implemented.

Action Type: Activity and Use Limitation
Action Stat: Confirmatory AUL received
Action Date: 03/29/2006
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: Activity and Use Limitation
Action Stat: Legal Notice Published
Action Date: 03/20/2006
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: C&E
Action Stat: ACO
Action Date: 01/24/2006
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: Activity and Use Limitation
Action Stat: Level II - Audit Inspection
Action Date: 03/31/2005
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: AUDCOM
Action Stat: NAFNON
Action Date: 03/31/2005
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 Stat: FLDRUN
Action Date: 03/03/2005
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: Activity and Use Limitation
Action Stat: Level II - Audit Inspection
Action Date: 03/03/2005
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 Stat: FLDRUN
Action Date: 02/09/2005
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.

GOODYEAR TIRE & RUBBER (Continued) **S101035644**

Action Type: Activity and Use Limitation
Action Stat: Level II - Audit Inspection
Action Date: 02/09/2005
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
Action Stat: Fee Not Required, Fee Credited
Action Date: 11/13/2001
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: Activity and Use Limitation
Action Stat: Level I - Technical Screen Audit
Action Date: 10/11/2001
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
Action Stat: Level I - Technical Screen Audit
Action Date: 09/05/2001
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
Action Stat: Fee Received
Action Date: 05/03/2000
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 II
Action Stat: Scope of Work Received
Action Date: 04/19/2000
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: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 04/19/2000
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
Action Stat: RAO Statement Received
Action Date: 04/19/2000
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

GOODYEAR TIRE & RUBBER (Continued) **S101035644**

Action Stat: Tier 2 Classification
Action Date: 11/24/1997
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 Stat: Tier 2 Extension
Action Date: 07/19/1997
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: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 01/08/1997
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: C&E
Action Stat: NON
Action Date: 09/20/1996
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: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 08/12/1996
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: RLFA
Action Stat: FLDRUN
Action Date: 06/18/1996
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: Phase II
Action Stat: Scope of Work Received
Action Date: 04/05/1993
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: TREGS
Action Stat: WAVACC
Action Date: 11/24/1992
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 Stat: Transmittal Received

GOODYEAR TIRE & RUBBER (Continued) **S101035644**

Action Date: 11/24/1992
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: TREGS
Action Stat: WAVSIG
Action Date: 10/23/1992
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: TREGS
Action Stat: WAVREC
Action Date: 09/18/1992
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
Action Stat: TCTRNS
Action Date: 04/15/1989
Response Action 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: 4-0000688
Action Type: AUL
Action Stat: RECPT
Action Date: 04/19/2000
Response Action Outcome: A3

Release Tracking Number: 4-0000688
Action Type: AUL
Action Stat: SNAUDI
Action Date: 03/31/2005
Response Action Outcome: A3

Release Tracking Number: 4-0000688
Action Type: AUL
Action Stat: SNAUDI
Action Date: 03/03/2005
Response Action Outcome: A3

Release Tracking Number: 4-0000688
Action Type: AUL
Action Stat: LEGNOT
Action Date: 03/20/2006
Response Action Outcome: A3

Release Tracking Number: 4-0000688
Action Type: AUL
Action Stat: TSAUD
Action Date: 10/11/2001
Response Action Outcome: A3

GOODYEAR TIRE & RUBBER (Continued) **S101035644**

Release Tracking Number: 4-0000688
Action Type: AUL
Action Stat: RECPT
Action Date: 03/29/2006
Response Action Outcome: A3

Release Tracking Number: 4-0000688
Action Type: AUL
Action Stat: SNAUDI
Action Date: 02/09/2005
Response Action Outcome: A3

Release Tracking Number: 4-0000688
Action Type: AUL
Action Stat: TERMIN
Action Date: 03/29/2006
Response Action Outcome: A3

Release Tracking Number: 4-0000688
Action Type: AUL
Action Stat: CONFRM
Action Date: 03/29/2006
Response Action Outcome: A3

K62 **LEONARDS WHARF** **SHWS** **S106132443**
NNW **84 FRONT ST** **RELEASE** **N/A**
1/2-1 **NEW BEDFORD, MA**
0.800 mi.
4224 ft. **Site 3 of 4 in cluster K**

Relative:
Higher

Actual:
26 ft.

SHWS:
Facility ID: 4-0018092
Release Town: NEW BEDFORD
Notification Date: 10/27/2003
Category: TWO HR
Associated ID: Not reported
Compliance Status: **Release Action Outcome**
Status Date: 09/20/2004
Phase: Not reported
Response Action Outcome Class: A2
Oil Or Haz Material: Oil

Chemical:
Chemical: DIESEL FUEL
Quantity: 1000 gallons

Location:
Location Type: WATERBODY

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 10/14/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome

LEONARDS WHARF (Continued) **S106132443**

Action Stat: Fee Received
Action Date: 09/27/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 09/20/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 09/20/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 12/24/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 12/24/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/31/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 10/29/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 10/28/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 10/28/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/27/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

LEONARDS WHARF (Continued) **S106132443**

reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 10/27/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/27/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 10/27/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 10/27/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 10/27/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 4-0018092
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 10/27/2003
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 09/20/2004
Phase: Not reported
Rspns Actn Outcome Class: A2
Oil / Haz Material Type: Oil

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 10/14/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 09/27/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

LEONARDS WHARF (Continued) **S106132443**

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 09/20/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 09/20/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 12/24/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 12/24/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/31/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 10/29/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 10/28/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 10/28/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/27/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 10/27/2003

LEONARDS WHARF (Continued) **S106132443**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/27/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 10/27/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 10/27/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 10/27/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: DIESEL FUEL
Quantity: 1000 gallons

Location:
Location Type: WATERBODY

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 10/14/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 09/27/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 09/20/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received

LEONARDS WHARF (Continued) **S106132443**

Action Date: 09/20/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 12/24/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 12/24/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/31/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 10/29/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 10/28/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 10/28/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/27/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 10/27/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/27/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

LEONARDS WHARF (Continued) **S106132443**

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 10/27/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 10/27/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 10/27/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

K63 **NO LOCATION AID** **SHWS** **S105125201**
NNW **122-132 FRONT ST** **RELEASE** **N/A**
1/2-1 **NEW BEDFORD, MA**
0.817 mi.
4312 ft. **Site 4 of 4 in cluster K**

Relative:
Higher

Actual:
27 ft.

SHWS:
Facility ID: 4-0016301
Release Town: NEW BEDFORD
Notification Date: 06/12/2001
Category: 120 DY
Associated ID: Not reported
Compliance Status: **URAM**
Status Date: 06/21/2001
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Oil

Chemical:
Chemical: PETROLEUM
Quantity: Not reported

Location:
Location Type: ROADWAY

Source:
Source Type: UNKNOWN

Action:
Action Type: Utility-related Abatement Measure
Action Stat: Completion Statement Received
Action Date: 09/28/2001
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure
Action Stat: Notification of URAM Received
Action Date: 06/21/2001
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure
Action Stat: Oral Approval of Plan

NO LOCATION AID (Continued) **S105125201**

Action Date: 06/12/2001
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure
Action Stat: Notification of URAM Received
Action Date: 06/12/2001
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 06/12/2001
Response Action Outcome: Not reported

Release:
Facility ID: 4-0016301
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 06/12/2001
Category: 120 DY
Facility Status: URAM
Status Date: 06/21/2001
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Oil

Action:
Action Type: Utility-related Abatement Measure
Action Stat: Completion Statement Received
Action Date: 09/28/2001
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure
Action Stat: Notification of URAM Received
Action Date: 06/21/2001
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure
Action Stat: Oral Approval of Plan
Action Date: 06/12/2001
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure
Action Stat: Notification of URAM Received
Action Date: 06/12/2001
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 06/12/2001
Response Action Outcome: Not reported

Chemical:
Chemical: PETROLEUM
Quantity: Not reported

Location:

NO LOCATION AID (Continued) **S105125201**

Location Type: ROADWAY

Source:
Source Type: UNKNOWN

Action:
Action Type: Utility-related Abatement Measure
Action Stat: Completion Statement Received
Action Date: 09/28/2001
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure
Action Stat: Notification of URAM Received
Action Date: 06/21/2001
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure
Action Stat: Oral Approval of Plan
Action Date: 06/12/2001
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure
Action Stat: Notification of URAM Received
Action Date: 06/12/2001
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 06/12/2001
Response Action Outcome: Not reported

M64 **MERIT GAS STATION** **SHWS** **S104232408**
SW **1253 COVE RD** **RELEASE** **N/A**
1/2-1 **NEW BEDFORD, MA**
0.818 mi.
4317 ft. **Site 1 of 4 in cluster M**

Relative:
Equal

Actual:
0 ft.

SHWS:
Facility ID: 4-0012790
Release Town: NEW BEDFORD
Notification Date: 01/17/1997
Category: TWO HR
Associated ID: Not reported
Compliance Status: **Release Action Outcome**
Status Date: 04/08/1997
Phase: Not reported
Response Action Outcome Class: B1
Oil Or Haz Material: Oil

Chemical:
Chemical: GASOLINE
Quantity: 400 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: PIPE

MERIT GAS STATION (Continued) **S104232408**

Action:

Action Type:	Response Action Outcome
Action Stat:	RAO Statement Received
Action Date:	04/08/1997
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type:	RNF
Action Stat:	REPORT
Action Date:	02/10/1997
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type:	RLFA
Action Stat:	FOLOFF
Action Date:	01/27/1997
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	01/22/1997
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type:	Release
Action Stat:	REPORT
Action Date:	01/17/1997
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type:	Immediate Response
Action Stat:	IRA Assessment Only
Action Date:	01/17/1997
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

Release:

Facility ID:	4-0012790
Primary ID:	Not reported
Official City:	NEW BEDFORD
Notification:	01/17/1997
Category:	TWO HR
Facility Status:	Response Action Outcome
Status Date:	04/08/1997
Phase:	Not reported
Rspns Actn Outcome Class:	B1
Oil / Haz Material Type:	Oil

Action:

Action Type:	Response Action Outcome
Action Stat:	RAO Statement Received
Action Date:	04/08/1997
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

MERIT GAS STATION (Continued) **S104232408**

Action Type: RNF
Action Stat: REPORT
Action Date: 02/10/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 01/27/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/22/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release
Action Stat: REPORT
Action Date: 01/17/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 01/17/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Chemical:
Chemical: GASOLINE
Quantity: 400 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: PIPE

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 04/08/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF
Action Stat: REPORT
Action Date: 02/10/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 01/27/1997
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

MERIT GAS STATION (Continued) **S104232408**

Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	01/22/1997
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type:	Release
Action Stat:	REPORT
Action Date:	01/17/1997
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type:	Immediate Response
Action Stat:	IRA Assessment Only
Action Date:	01/17/1997
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

M65 **HESS CORP** **RCRA-CESQG** **1000263695**
SW **1253 COVE RD** **FINDS** **MAD982197717**
1/2-1 **NEW BEDFORD, MA 02744** **SHWS**
0.818 mi. **LUST**
4317 ft. **Site 2 of 4 in cluster M** **RELEASE**

Relative:
Equal

Actual:
0 ft.

RCRA-CESQG:

Date form received by agency:	03/07/2002
Facility name:	HESS CORPORATION 21504
Facility address:	1253 COVE RD NEW BEDFORD, MA 02744
EPA ID:	MAD982197717
Mailing address:	1 HESS PLAZA WOODBRIDGE, NJ 070950000
Contact:	PAUL MARINO
Contact address:	1 HESS PLAZA WOODBRIDGE, NJ 07095
Contact country:	US
Contact telephone:	(732) 750-7105
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:

HESS CORP (Continued) **1000263695**

Owner/operator name: AMERADA HESS CORP
Owner/operator address: 1 HESS PLAZA
WOODBRIDGE, NJ 07095
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 04/23/2001
Owner/Op end date: Not reported

Owner/operator name: AMERADA HESS
Owner/operator address: 1 HESS PLAZA
WOODBRIDGE, NJ 07095
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

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
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 06/17/1987
Facility name: HESS CORPORATION 21504
Classification: Small Quantity Generator

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

FINDS:

HESS CORP (Continued) **1000263695**

Registry ID: 110003478362

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

SHWS:

Facility ID:	4-0018832
Release Town:	NEW BEDFORD
Notification Date:	01/12/2005
Category:	72 HR
Associated ID:	4-0001096
Compliance Status:	**Response Action Outcome Not Required**
Status Date:	01/12/2006
Phase:	Not reported
Response Action Outcome Class:	Not reported
Oil Or Haz Material:	Hazardous Material

Chemical:

Chemical:	MTBE
Quantity:	153000 parts per billion

Location:

Location Type:	COMMERCIAL

Source:

Source Type:	BUCKET

Action:

Action Type:	Tier Classification
Action Stat:	LSPMP
Action Date:	04/10/2008
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	LSPMP
Action Date:	01/03/2007
Response Action Outcome:	Not reported
Action Type:	Immediate Response
Action Stat:	Level I - Technical Screen Audit
Action Date:	06/12/2006
Response Action Outcome:	Not reported
Action Type:	Immediate Response
Action Stat:	Completion Statement Received
Action Date:	01/12/2006
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	LNKVIC

HESS CORP (Continued) **1000263695**

Action Date: 01/12/2006
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 01/12/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 08/11/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 07/28/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 07/28/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 05/09/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 02/22/2005
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 02/22/2005
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 01/20/2005
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/14/2005
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 01/12/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 01/12/2005
Response Action Outcome: Not reported

HESS CORP (Continued) **1000263695**

Action Type:	Tier Classification
Action Stat:	PERTRN
Action Date:	08/21/2001
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Stat:	Legal Notice Published
Action Date:	01/12/2001
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Stat:	PEREXT
Action Date:	03/03/2000
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Stat:	Transmittal Received
Action Date:	12/12/1994
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Stat:	Tier 1A Classification
Action Date:	12/12/1994
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Stat:	PEREFF
Action Date:	12/12/1994
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Stat:	Tier 1A Classification
Action Date:	08/17/1994
Response Action Outcome:	Not reported

LUST:

Facility:

Facility ID:	4-0001096
Facility Status:	**Remedy Operation Status**
Status Date:	01/03/2008
Source Type:	UST
Release Town:	NEW BEDFORD
Notification Date:	05/15/1991
Category:	NONE
Associated ID:	4-0001096
Phase:	PHASE V
Rspns Actn Outcome Class:	Not reported
Oil Or Haz Material:	Oil

Chemical:

Chemical:	PETROLEUM
Quantity:	Not reported
Chemical:	GASOLINE
Quantity:	Not reported

Location:

HESS CORP (Continued) **1000263695**

Location Type: GASSTATION
Location Type: COMMERCIAL

Source:
Source Type: UST

Action:
Action Type: BWS30
Action Stat: APPROV
Action Date: Not reported
Response Action Outcome: Not reported

Action Type: BWS20
Action Stat: ACTIVE
Action Date: Not reported
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 01/11/2010
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 01/11/2010
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Revised Statement or Transmittal Received
Action Date: 09/21/2009
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 06/30/2009
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 06/30/2009
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 06/04/2009
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 02/02/2009
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 01/08/2009
Response Action Outcome: Not reported

Action Type: Phase V

HESS CORP (Continued) **1000263695**

Action Stat: ROSSTR
Action Date: 01/08/2009
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 07/03/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 07/03/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LSPMP
Action Date: 04/10/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 01/03/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 01/03/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 06/13/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 06/13/2007
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LSPMP
Action Date: 01/03/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINI
Action Date: 01/03/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 01/03/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 06/22/2006

HESS CORP (Continued) **1000263695**

Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 06/22/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVIC
Action Date: 01/12/2006
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 01/10/2006
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 07/05/2005
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 01/05/2005
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 06/16/2004
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 01/16/2004
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 06/30/2003
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 01/16/2003
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 07/01/2002
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 12/10/2001
Response Action Outcome: Not reported

HESS CORP (Continued) **1000263695**

Action Type: Tier Classification
Action Stat: PERTRN
Action Date: 08/21/2001
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 07/25/2001
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 01/12/2001
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 09/11/2000
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 03/06/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 03/03/2000
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 12/31/1999
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: As-Built Construction report Received
Action Date: 12/31/1999
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: APPT1A
Action Date: 03/24/1999
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 03/17/1999
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 10/20/1998
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: APPT1A

HESS CORP (Continued) **1000263695**

Action Date: 07/23/1998
Response Action Outcome: Not reported

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 04/17/1998
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 04/17/1998
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: APPT1A
Action Date: 02/06/1997
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 04/01/1996
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: APPT1A
Action Date: 09/13/1995
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 07/10/1995
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 12/12/1994
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 1A Classification
Action Date: 12/12/1994
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREFF
Action Date: 12/12/1994
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: BWSC04
Action Date: 12/12/1994
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Approval of Plan
Action Date: 11/30/1994
Response Action Outcome: Not reported

HESS CORP (Continued) **1000263695**

Action Type: Tier Classification
Action Stat: Tier 1A Classification
Action Date: 08/17/1994
Response Action Outcome: Not reported

Action Type: AUDCOM
Action Stat: NAFNVD
Action Date: 11/19/1992
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: WAVREC
Action Date: 09/28/1992
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: WAVDN
Action Date: 09/28/1992
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/24/1991
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 05/15/1991
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 05/15/1991
Response Action Outcome: Not reported

Release:
Facility ID: 4-0001096
Primary ID: 4-0001096
Official City: NEW BEDFORD
Notification: 05/15/1991
Category: NONE
Facility Status: REMOPS
Status Date: 01/03/2008
Phase: PHASE V
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Oil

Action:
Action Type: BWS30
Action Stat: APPROV
Action Date: Not reported
Response Action Outcome: Not reported

Action Type: BWS20
Action Stat: ACTIVE
Action Date: Not reported

HESS CORP (Continued) **1000263695**

Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 01/11/2010
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 01/11/2010
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Revised Statement or Transmittal Received
Action Date: 09/21/2009
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 06/30/2009
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 06/30/2009
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 06/04/2009
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 02/02/2009
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 01/08/2009
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 01/08/2009
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 07/03/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 07/03/2008
Response Action Outcome: Not reported

HESS CORP (Continued) **1000263695**

Action Type: Tier Classification
Action Stat: LSPMP
Action Date: 04/10/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 01/03/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 01/03/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 06/13/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 06/13/2007
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LSPMP
Action Date: 01/03/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINI
Action Date: 01/03/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 01/03/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 06/22/2006
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 06/22/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVIC
Action Date: 01/12/2006
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD

HESS CORP (Continued) **1000263695**

Action Date: 01/10/2006
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 07/05/2005
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 01/05/2005
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 06/16/2004
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 01/16/2004
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 06/30/2003
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 01/16/2003
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 07/01/2002
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 12/10/2001
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PERTRN
Action Date: 08/21/2001
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 07/25/2001
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 01/12/2001
Response Action Outcome: Not reported

HESS CORP (Continued) **1000263695**

Action Type: Phase V
Action Stat: IMRCD
Action Date: 09/11/2000
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 03/06/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 03/03/2000
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 12/31/1999
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: As-Built Construction report Received
Action Date: 12/31/1999
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: APPT1A
Action Date: 03/24/1999
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 03/17/1999
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 10/20/1998
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: APPT1A
Action Date: 07/23/1998
Response Action Outcome: Not reported

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 04/17/1998
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 04/17/1998
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: APPT1A

HESS CORP (Continued) **1000263695**

Action Date: 02/06/1997
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 04/01/1996
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: APPT1A
Action Date: 09/13/1995
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 07/10/1995
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 12/12/1994
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 1A Classification
Action Date: 12/12/1994
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREFF
Action Date: 12/12/1994
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: BWSC04
Action Date: 12/12/1994
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Approval of Plan
Action Date: 11/30/1994
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 1A Classification
Action Date: 08/17/1994
Response Action Outcome: Not reported

Action Type: AUDCOM
Action Stat: NAFNVD
Action Date: 11/19/1992
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: WAVREC
Action Date: 09/28/1992
Response Action Outcome: Not reported

HESS CORP (Continued) **1000263695**

Action Type: TREGS
Action Stat: WAVDN
Action Date: 09/28/1992
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/24/1991
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 05/15/1991
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 05/15/1991
Response Action Outcome: Not reported

Chemical:
Chemical: PETROLEUM
Quantity: Not reported
Chemical: GASOLINE
Quantity: Not reported

Location:
Location Type: GASSTATION
Location Type: COMMERCIAL

Source:
Source Type: UST

Action:
Action Type: BWS30
Action Stat: APPROV
Action Date: Not reported
Response Action Outcome: Not reported

Action Type: BWS20
Action Stat: ACTIVE
Action Date: Not reported
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 01/11/2010
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 01/11/2010
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Revised Statement or Transmittal Received
Action Date: 09/21/2009
Response Action Outcome: Not reported

HESS CORP (Continued) **1000263695**

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 06/30/2009
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 06/30/2009
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 06/04/2009
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 02/02/2009
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 01/08/2009
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 01/08/2009
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 07/03/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 07/03/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LSPMP
Action Date: 04/10/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 01/03/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 01/03/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT

HESS CORP (Continued) **1000263695**

Action Date: 06/13/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 06/13/2007
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LSPMP
Action Date: 01/03/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINI
Action Date: 01/03/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 01/03/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 06/22/2006
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: RMRINT
Action Date: 06/22/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVIC
Action Date: 01/12/2006
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 01/10/2006
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 07/05/2005
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 01/05/2005
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 06/16/2004
Response Action Outcome: Not reported

HESS CORP (Continued) **1000263695**

Action Type: Phase V
Action Stat: IMRCD
Action Date: 01/16/2004
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 06/30/2003
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 01/16/2003
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 07/01/2002
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 12/10/2001
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PERTRN
Action Date: 08/21/2001
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 07/25/2001
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 01/12/2001
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 09/11/2000
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 03/06/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 03/03/2000
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Completion Statement Received

HESS CORP (Continued) **1000263695**

Action Date: 12/31/1999
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: As-Built Construction report Received
Action Date: 12/31/1999
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: APPT1A
Action Date: 03/24/1999
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 03/17/1999
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 10/20/1998
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: APPT1A
Action Date: 07/23/1998
Response Action Outcome: Not reported

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 04/17/1998
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 04/17/1998
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: APPT1A
Action Date: 02/06/1997
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 04/01/1996
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: APPT1A
Action Date: 09/13/1995
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 07/10/1995
Response Action Outcome: Not reported

HESS CORP (Continued) **1000263695**

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 12/12/1994
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 1A Classification
Action Date: 12/12/1994
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREFF
Action Date: 12/12/1994
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: BWSC04
Action Date: 12/12/1994
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Approval of Plan
Action Date: 11/30/1994
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 1A Classification
Action Date: 08/17/1994
Response Action Outcome: Not reported

Action Type: AUDCOM
Action Stat: NAFNVD
Action Date: 11/19/1992
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: WAVREC
Action Date: 09/28/1992
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: WAVDN
Action Date: 09/28/1992
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/24/1991
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 05/15/1991
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS

HESS CORP (Continued) **1000263695**

Action Date: 05/15/1991
Response Action Outcome: Not reported

Facility ID: 4-0018832
Primary ID: 4-0001096
Official City: NEW BEDFORD
Notification: 01/12/2005
Category: 72 HR
Facility Status: Response Action Outcome Not Required
Status Date: 01/12/2006
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Hazardous Material

Action:

Action Type: Tier Classification
Action Stat: LSPMP
Action Date: 04/10/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LSPMP
Action Date: 01/03/2007
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 06/12/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 01/12/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVIC
Action Date: 01/12/2006
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 01/12/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 08/11/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 07/28/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received

HESS CORP (Continued) **1000263695**

Action Date: 07/28/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 05/09/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 02/22/2005
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 02/22/2005
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 01/20/2005
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/14/2005
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 01/12/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 01/12/2005
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PERTRN
Action Date: 08/21/2001
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 01/12/2001
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 03/03/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 12/12/1994
Response Action Outcome: Not reported

HESS CORP (Continued) **1000263695**

Action Type: Tier Classification
Action Stat: Tier 1A Classification
Action Date: 12/12/1994
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREFF
Action Date: 12/12/1994
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 1A Classification
Action Date: 08/17/1994
Response Action Outcome: Not reported

Chemical:
Chemical: MTBE
Quantity: 153000 parts per billion

Location:
Location Type: COMMERCIAL

Source:
Source Type: BUCKET

Action:
Action Type: Tier Classification
Action Stat: LSPMP
Action Date: 04/10/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LSPMP
Action Date: 01/03/2007
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 06/12/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 01/12/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVIC
Action Date: 01/12/2006
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 01/12/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit

HESS CORP (Continued) **1000263695**

Action Date: 08/11/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 07/28/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 07/28/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 05/09/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 02/22/2005
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 02/22/2005
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 01/20/2005
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/14/2005
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 01/12/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 01/12/2005
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PERTRN
Action Date: 08/21/2001
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 01/12/2001
Response Action Outcome: Not reported

HESS CORP (Continued) **1000263695**

Action Type: Tier Classification
Action Stat: PEREXT
Action Date: 03/03/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 12/12/1994
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 1A Classification
Action Date: 12/12/1994
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: PEREFF
Action Date: 12/12/1994
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 1A Classification
Action Date: 08/17/1994
Response Action Outcome: Not reported

M66 **NO LOCATION AID** **SHWS** **S104232407**
SW **1253 COVE RD** **LUST** **N/A**
1/2-1 **NEW BEDFORD, MA** **RELEASE**
0.818 mi.
4317 ft. **Site 3 of 4 in cluster M**

Relative:
Equal

Actual:
0 ft.

SHWS:
Facility ID: 4-0012638
Release Town: NEW BEDFORD
Notification Date: 11/13/1996
Category: 72 HR
Associated ID: Not reported
Compliance Status: **Response Action Outcome Not Required**
Status Date: 01/17/1997
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Oil

Chemical:
Chemical: GASOLINE
Quantity: Not reported

Location:
Location Type: Not reported

Source:
Source Type: UST
Source Type: PIPE

Action:
Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 01/17/1997
Response Action Outcome: Not reported

NO LOCATION AID (Continued) **S104232407**

Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	11/21/1996
Response Action Outcome:	Not reported

Action Type:	RNF
Action Stat:	REPORT
Action Date:	11/18/1996
Response Action Outcome:	Not reported

Action Type:	Release
Action Stat:	REPORT
Action Date:	11/13/1996
Response Action Outcome:	Not reported

Action Type:	RLFA
Action Stat:	FOLOFF
Action Date:	11/13/1996
Response Action Outcome:	Not reported

Action Type:	Immediate Response
Action Stat:	IRA Assessment Only
Action Date:	11/13/1996
Response Action Outcome:	Not reported

Facility ID:	4-0012823
Release Town:	NEW BEDFORD
Notification Date:	02/04/1997
Category:	TWO HR
Associated ID:	Not reported
Compliance Status:	**Response Action Outcome Not Required**
Status Date:	04/08/1997
Phase:	Not reported
Response Action Outcome Class:	Not reported
Oil Or Haz Material:	Hazardous Material

Chemical:

Chemical:	KEROSENE
Quantity:	100 gallons

Location:

Location Type:	COMMERCIAL

Source:

Source Type:	UST
Source Type:	PIPE

Action:

Action Type:	Response Action Outcome Not Required
Action Stat:	Related to a Tier Classified Site
Action Date:	04/08/1997
Response Action Outcome:	Not reported

Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	02/12/1997
Response Action Outcome:	Not reported

NO LOCATION AID (Continued) **S104232407**

Action Type:	RNF
Action Stat:	REPORT
Action Date:	02/11/1997
Response Action Outcome:	Not reported

Action Type:	Release
Action Stat:	REPORT
Action Date:	02/04/1997
Response Action Outcome:	Not reported

Action Type:	RLFA
Action Stat:	FOLOFF
Action Date:	02/04/1997
Response Action Outcome:	Not reported

Action Type:	Immediate Response
Action Stat:	IRA Assessment Only
Action Date:	02/04/1997
Response Action Outcome:	Not reported

LUST:

Facility:

Facility ID:	4-0012823
Facility Status:	**Response Action Outcome Not Required**
Status Date:	04/08/1997
Source Type:	UST
Release Town:	NEW BEDFORD
Notification Date:	02/04/1997
Category:	TWO HR
Associated ID:	Not reported
Phase:	Not reported
Rspns Actn Outcome Class:	Not reported
Oil Or Haz Material:	Hazardous Material

Chemical:

Chemical:	KEROSENE
Quantity:	100 gallons

Location:

Location Type:	COMMERCIAL

Source:

Source Type:	UST
Source Type:	PIPE

Action:

Action Type:	Response Action Outcome Not Required
Action Stat:	Related to a Tier Classified Site
Action Date:	04/08/1997
Response Action Outcome:	Not reported

Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	02/12/1997
Response Action Outcome:	Not reported

Action Type:	RNF

NO LOCATION AID (Continued) **S104232407**

Action Stat: REPORT
Action Date: 02/11/1997
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 02/04/1997
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 02/04/1997
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 02/04/1997
Response Action Outcome: Not reported

Facility:
Facility ID: 4-0012638
Facility Status: Response Action Outcome Not Required
Status Date: 01/17/1997
Source Type: UST
Release Town: NEW BEDFORD
Notification Date: 11/13/1996
Category: 72 HR
Associated ID: Not reported
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil Or Haz Material: Oil

Chemical:
Chemical: GASOLINE
Quantity: Not reported

Location:
Location Type: Not reported

Source:
Source Type: UST
Source Type: PIPE

Action:
Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 01/17/1997
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/21/1996
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 11/18/1996
Response Action Outcome: Not reported

NO LOCATION AID (Continued) **S104232407**

Action Type: Release
Action Stat: REPORT
Action Date: 11/13/1996
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 11/13/1996
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 11/13/1996
Response Action Outcome: Not reported

Release:
Facility ID: 4-0012638
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 11/13/1996
Category: 72 HR
Facility Status: Response Action Outcome Not Required
Status Date: 01/17/1997
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Oil

Action:
Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 01/17/1997
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/21/1996
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 11/18/1996
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 11/13/1996
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 11/13/1996
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 11/13/1996

NO LOCATION AID (Continued) **S104232407**

Response Action Outcome: Not reported

Chemical:
Chemical: GASOLINE
Quantity: Not reported

Location:
Location Type: Not reported

Source:
Source Type: UST
Source Type: PIPE

Action:
Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 01/17/1997
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/21/1996
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 11/18/1996
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 11/13/1996
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 11/13/1996
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 11/13/1996
Response Action Outcome: Not reported

Facility ID: 4-0012823
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 02/04/1997
Category: TWO HR
Facility Status: Response Action Outcome Not Required
Status Date: 04/08/1997
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Hazardous Material

Action:
Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site

NO LOCATION AID (Continued) **S104232407**

Action Date: 04/08/1997
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 02/12/1997
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 02/11/1997
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 02/04/1997
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 02/04/1997
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 02/04/1997
Response Action Outcome: Not reported

Chemical:
Chemical: KEROSENE
Quantity: 100 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: UST
Source Type: PIPE

Action:
Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 04/08/1997
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 02/12/1997
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 02/11/1997
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 02/04/1997

NO LOCATION AID (Continued) **S104232407**

Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 02/04/1997
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 02/04/1997
Response Action Outcome: Not reported

M67 **HESS 21504** **LUST** **U002007815**
SW **1253 COVE RD** **UST** **N/A**
1/2-1 **NEW BEDFORD, MA 02744** **RELEASE**
0.818 mi. **FINANCIAL ASSURANCE**
4317 ft. **Site 4 of 4 in cluster M**

Relative:
Equal

Actual:
0 ft.

LUST:

Facility:
Facility ID: 4-0022267
Facility Status: **Release Action Outcome**
Status Date: 01/05/2010
Source Type: UST
Release Town: NEW BEDFORD
Notification Date: 10/30/2009
Category: 72 HR
Associated ID: Not reported
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil Or Haz Material: Oil and Hazardous Material

Chemical:
Chemical: KEROSENE
Quantity: 5 gallons
Chemical: GASOLINE
Quantity: 5 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 01/13/2010
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
Action Stat: RAO Statement Received
Action Date: 01/05/2010
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: Notice of Responsibility

HESS 21504 (Continued) **U002007815**

Action Stat:	ISSUED
Action Date:	11/05/2009
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
Action Stat:	REPORT
Action Date:	10/30/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

UST:

Facility ID:	3478

Facility:

Owner Id:	3055
Owner:	HESS CORPORATION
Owner Address:	1 HESS PLAZA
Owner City,St,Zip:	WOODBRIDGE, NJ 07095
Telephone:	(732) 750-6220
Description:	Gas Station
Fire Dept. ID:	5201
Date of Inspection:	Not reported
Inspector:	Not reported
Overfill Prevention:	Not reported
Spill Prevention:	Not reported

Tank ID:	1
Tank Status:	**Removed**
Tank Useage:	Not reported
Tank Material:	Steel
Tank Contents:	Not reported
Tank Leak Detection:	Not reported
Pipe Material:	Steel
Pipe Container:	Not reported
Pipe Leak Detection:	Not reported
Serial Number:	Not reported
Aboveground:	No
Capacity:	5000
Contents:	Gasoline

Tank ID:	10
Tank Status:	**In Use**
Tank Useage:	Other
Tank Material:	Composite
Tank Contents:	2 Walls
Tank Leak Detection:	Interstitial Monitoring
Pipe Material:	Reinforced
Pipe Container:	2 Walls
Pipe Leak Detection:	Interstitial Space Monitor
Serial Number:	237513
Aboveground:	No
Capacity:	10000
Contents:	Kerosene

HESS 21504 (Continued) **U002007815**

Tank ID:	11
Tank Status:	**In Use**
Tank Useage:	Other
Tank Material:	Composite
Tank Contents:	2 Walls
Tank Leak Detection:	Interstitial Monitoring
Pipe Material:	Not reported
Pipe Container:	Not reported
Pipe Leak Detection:	Not reported
Serial Number:	237510
Aboveground:	No
Capacity:	550
Contents:	Other

Tank ID:	2
Tank Status:	**Removed**
Tank Useage:	Not reported
Tank Material:	Steel
Tank Contents:	Not reported
Tank Leak Detection:	Not reported
Pipe Material:	Steel
Pipe Container:	Not reported
Pipe Leak Detection:	Not reported
Serial Number:	Not reported
Aboveground:	No
Capacity:	5000
Contents:	Gasoline

Tank ID:	3
Tank Status:	**Removed**
Tank Useage:	Not reported
Tank Material:	Steel
Tank Contents:	Not reported
Tank Leak Detection:	Not reported
Pipe Material:	Steel
Pipe Container:	Not reported
Pipe Leak Detection:	Not reported
Serial Number:	Not reported
Aboveground:	No
Capacity:	5000
Contents:	Gasoline

Tank ID:	4
Tank Status:	**Removed**
Tank Useage:	Not reported
Tank Material:	Steel
Tank Contents:	Not reported
Tank Leak Detection:	Not reported
Pipe Material:	Steel
Pipe Container:	Not reported
Pipe Leak Detection:	Not reported
Serial Number:	Not reported
Aboveground:	No
Capacity:	5000

HESS 21504 (Continued) **U002007815**

Contents: Gasoline

Tank ID: 5
Tank Status: Removed
Tank Useage: Not reported
Tank Material: Steel
Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Steel
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 500
Contents: Diesel

Tank ID: 6
Tank Status: Removed
Tank Useage: Not reported
Tank Material: Steel
Tank Contents: Not reported
Tank Leak Detection: Not reported
Pipe Material: Steel
Pipe Container: Not reported
Pipe Leak Detection: Not reported
Serial Number: Not reported
Aboveground: No
Capacity: 1000
Contents: Not reported

Tank ID: 7
Tank Status: In Use
Tank Useage: MV
Tank Material: Composite
Tank Contents: 2 Walls
Tank Leak Detection: Interstitial Monitoring
Pipe Material: Reinforced
Pipe Container: 2 Walls
Pipe Leak Detection: Interstitial Space Monitor
Serial Number: 237511
Aboveground: No
Capacity: 10000
Contents: Gasoline

Tank ID: 8
Tank Status: In Use
Tank Useage: MV
Tank Material: Composite
Tank Contents: 2 Walls
Tank Leak Detection: Interstitial Monitoring
Pipe Material: Reinforced
Pipe Container: 2 Walls
Pipe Leak Detection: Interstitial Space Monitor

HESS 21504 (Continued) **U002007815**

Serial Number: 237508
Aboveground: No
Capacity: 10000
Contents: Gasoline

Tank ID: 9
Tank Status: In Use
Tank Useage: MV
Tank Material: Composite
Tank Contents: 2 Walls
Tank Leak Detection: Interstitial Monitoring
Pipe Material: Reinforced
Pipe Container: 2 Walls
Pipe Leak Detection: Interstitial Space Monitor
Serial Number: 237512
Aboveground: No
Capacity: 10000
Contents: Gasoline

Release:
Facility ID: 4-0022267
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 10/30/2009
Category: 72 HR
Facility Status: Response Action Outcome
Status Date: 01/05/2010
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil / Haz Material Type: Oil and Hazardous Material

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 01/13/2010
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
Action Stat: RAO Statement Received
Action Date: 01/05/2010
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/05/2009
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
Action Stat: REPORT
Action Date: 10/30/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

HESS 21504 (Continued) **U002007815**

Chemical:
Chemical: KEROSENE
Quantity: 5 gallons
Chemical: GASOLINE
Quantity: 5 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 01/13/2010
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
Action Stat: RAO Statement Received
Action Date: 01/05/2010
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/05/2009
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
Action Stat: REPORT
Action Date: 10/30/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

FINASS2:
Facility Id: 3478
Description: Gas Station
Work Phone: (732) 750-6220
Financial Resp: Self Insured, Normal

N68 **PLEASANT ST** **SHWS** **S104232404**
NW **66 SPRING ST** **RELEASE** **N/A**
1/2-1 **NEW BEDFORD, MA 02740** **INST CONTROL**
0.827 mi.
4367 ft. **Site 1 of 3 in cluster N**

Relative:
Higher

Actual:
55 ft.

SHWS:
Facility ID: 4-0012534
Release Town: NEW BEDFORD
Notification Date: 10/03/1996
Category: 120 DY
Associated ID: Not reported
Compliance Status: **Release Action Outcome**
Status Date: 10/30/1996

PLEASANT ST (Continued) **S104232404**

Phase: Not reported
Response Action Outcome Class: B2
Oil Or Haz Material: Oil and Hazardous Material

Chemical:
Chemical: NAPHTHALENE
Quantity: 5.8 parts per million
Chemical: TPH
Quantity: 11000 parts per million

Location:
Location Type: COMMERCIAL

Source:
Source Type: Not reported

Action:
Action Type: Activity and Use Limitation
Action Stat: NAFNVD
Action Date: 07/26/2006
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 Stat: Level II - Audit Inspection
Action Date: 07/26/2006
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 Stat: FLDRUN
Action Date: 07/14/2006
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: C&E
Action Stat: NAFNVD
Action Date: 08/07/1998
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: Response Action Outcome
Action Stat: Action Audited
Action Date: 08/07/1998
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: C&E
Action Stat: FOLCD
Action Date: 08/07/1998
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.

PLEASANT ST (Continued) **S104232404**

Action Type: AUDCOM
Action Stat: NOA
Action Date: 05/06/1998
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/05/1996
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
Action Stat: RAO Statement Received
Action Date: 10/30/1996
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: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 10/30/1996
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: RNF
Action Stat: REPORT
Action Date: 10/03/1996
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: Release
Action Stat: REPORT
Action Date: 10/03/1996
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.

Release:
Facility ID: 4-0012534
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 10/03/1996
Category: 120 DY
Facility Status: Response Action Outcome
Status Date: 10/30/1996
Phase: Not reported
Rspns Actn Outcome Class: B2
Oil / Haz Material Type: Oil and Hazardous Material

Action:
Action Type: Activity and Use Limitation

PLEASANT ST (Continued) **S104232404**

Action Stat: NAFNVD
Action Date: 07/26/2006
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 Stat: Level II - Audit Inspection
Action Date: 07/26/2006
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 Stat: FLDRUN
Action Date: 07/14/2006
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: C&E
Action Stat: NAFNVD
Action Date: 08/07/1998
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: Response Action Outcome
Action Stat: Action Audited
Action Date: 08/07/1998
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: C&E
Action Stat: FOLCD
Action Date: 08/07/1998
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: AUDCOM
Action Stat: NOA
Action Date: 05/06/1998
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/05/1996
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
Action Stat: RAO Statement Received

PLEASANT ST (Continued) **S104232404**

Action Date: 10/30/1996
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: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 10/30/1996
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: RNF
Action Stat: REPORT
Action Date: 10/03/1996
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: Release
Action Stat: REPORT
Action Date: 10/03/1996
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.

Chemical:
Chemical: NAPHTHALENE
Quantity: 5.8 parts per million
Chemical: TPH
Quantity: 11000 parts per million

Location:
Location Type: COMMERCIAL

Source:
Source Type: Not reported

Action:
Action Type: Activity and Use Limitation
Action Stat: NAFNVD
Action Date: 07/26/2006
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 Stat: Level II - Audit Inspection
Action Date: 07/26/2006
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 Stat: FLDRUN
Action Date: 07/14/2006
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

PLEASANT ST (Continued) **S104232404**

AULs that have been implemented.

Action Type: C&E
Action Stat: NAFNVD
Action Date: 08/07/1998
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: Response Action Outcome
Action Stat: Action Audited
Action Date: 08/07/1998
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: C&E
Action Stat: FOLCD
Action Date: 08/07/1998
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: AUDCOM
Action Stat: NOA
Action Date: 05/06/1998
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/05/1996
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
Action Stat: RAO Statement Received
Action Date: 10/30/1996
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: Activity and Use Limitation
Action Stat: Transmittal Received
Action Date: 10/30/1996
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: RNF
Action Stat: REPORT
Action Date: 10/03/1996
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.

PLEASANT ST (Continued) **S104232404**

Action Type: Release
Action Stat: REPORT
Action Date: 10/03/1996
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.

INST CONTROL:
Release Tracking Number: 4-0012534
Action Type: AUL
Action Stat: NAFNVD
Action Date: 07/26/2006
Response Action Outcome: B2

Release Tracking Number: 4-0012534
Action Type: AUL
Action Stat: RECPT
Action Date: 10/30/1996
Response Action Outcome: B2

Release Tracking Number: 4-0012534
Action Type: AUL
Action Stat: SNAUDI
Action Date: 07/26/2006
Response Action Outcome: B2

O69 **JUDGE RESIDENCE** **LAST** **S102088578**
ENE **41 FORT ST** **RELEASE** **N/A**
1/2-1 **FAIRHAVEN, MA 02719**
0.829 mi.
4377 ft. **Site 1 of 4 in cluster O**

Relative:
Higher

Actual:
12 ft.

LAST:
Facility ID: 4-0011761
Source Type: AST
Release Town: FAIRHAVEN
Notification Date: 11/06/1995
Category: TWO HR
Associated ID: Not reported
Facility Status: **Release Action Outcome**
Status Date: 08/14/2002
Phase: Not reported
Rspns Actn Outcome Class: A2
Oil Or Haz Material: Oil

Chemical:
Chemical: #2 FUEL OIL
Quantity: 25 gallons

Location:
Location Type: RESIDNTIAL

Source:
Source Type: AST

Action:
Action Type: Response Action Outcome
Action Stat: Fee Not Required, Fee Credited

JUDGE RESIDENCE (Continued) **S102088578**

Action Date: 04/14/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 08/26/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 08/23/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 08/16/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 08/14/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/14/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 01/23/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/15/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 11/07/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 11/07/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

JUDGE RESIDENCE (Continued) **S102088578**

Action Type: Release
Action Stat: REPORT
Action Date: 11/06/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 4-0011761
Primary ID: Not reported
Official City: FAIRHAVEN
Notification: 11/06/1995
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 08/14/2002
Phase: Not reported
Rspns Actn Outcome Class: A2
Oil / Haz Material Type: Oil

Action:
Action Type: Response Action Outcome
Action Stat: Fee Not Required, Fee Credited
Action Date: 04/14/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 08/26/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 08/23/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 08/16/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 08/14/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 08/14/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF

JUDGE RESIDENCE (Continued) **S102088578**

Action Stat: REPORT
Action Date: 01/23/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/15/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 11/07/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 11/07/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 11/06/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: #2 FUEL OIL
Quantity: 25 gallons

Location:
Location Type: RESIDNTIAL

Source:
Source Type: AST

Action:
Action Type: Response Action Outcome
Action Stat: Fee Not Required, Fee Credited
Action Date: 04/14/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 08/26/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 08/23/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

JUDGE RESIDENCE (Continued) **S102088578**

Action Type:	Response Action Outcome
Action Stat:	Fee Received
Action Date:	08/16/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Immediate Response
Action Stat:	Completion Statement Received
Action Date:	08/14/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Response Action Outcome
Action Stat:	RAO Statement Received
Action Date:	08/14/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	RNF
Action Stat:	REPORT
Action Date:	01/23/1996
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	11/15/1995
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Immediate Response
Action Stat:	Oral Approval of Plan
Action Date:	11/07/1995
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	RLFA
Action Stat:	FOLOFF
Action Date:	11/07/1995
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Release
Action Stat:	REPORT
Action Date:	11/06/1995
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

P70 NNW 1/2-1 0.829 mi. 4378 ft. | **WATERWAY PIER 3 NEW BEDFORD, MA 02740** | **SHWS RELEASE SPILLS** | **S101044937 N/A**

Site 1 of 4 in cluster P

Relative: Equal

Actual: 0 ft.

SHWS:

Facility ID:	4-0017482
Release Town:	NEW BEDFORD
Notification Date:	11/14/2002
Category:	TWO HR
Associated ID:	Not reported
Compliance Status:	**Adequately Regulated**
Status Date:	11/14/2002
Phase:	Not reported
Response Action Outcome Class:	Not reported
Oil Or Haz Material:	Oil

Chemical:

Chemical:	#4 FUEL OIL
Quantity:	Not reported

Location:

Location Type:	WATERBODY

Source:

Source Type:	UNKNOWN

Action:

Action Type:	Response Action Outcome Not Required
Action Stat:	USCG
Action Date:	11/14/2002
Response Action Outcome:	Not reported
Action Type:	RLFA
Action Stat:	FLDD1U
Action Date:	11/14/2002
Response Action Outcome:	Not reported
Action Type:	Release
Action Stat:	REPORT
Action Date:	11/14/2002
Response Action Outcome:	Not reported

Release:

Facility ID:	4-0017482
Primary ID:	Not reported
Official City:	NEW BEDFORD
Notification:	11/14/2002
Category:	TWO HR
Facility Status:	ADQREG
Status Date:	11/14/2002
Phase:	Not reported
Rspns Actn Outcome Class:	Not reported
Oil / Haz Material Type:	Oil

Action:

Action Type:	Response Action Outcome Not Required
Action Stat:	USCG
Action Date:	11/14/2002

WATERWAY (Continued) **S101044937**

Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDD1U
Action Date: 11/14/2002
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 11/14/2002
Response Action Outcome: Not reported

Chemical:
Chemical: #4 FUEL OIL
Quantity: Not reported

Location:
Location Type: WATERBODY

Source:
Source Type: UNKNOWN

Action:
Action Type: Response Action Outcome Not Required
Action Stat: USCG
Action Date: 11/14/2002
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDD1U
Action Date: 11/14/2002
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 11/14/2002
Response Action Outcome: Not reported

MA Spills:

Facility ID:	0000		Spill ID:	S92-0875
Staff Lead:	KEARNS, R		Date Entered:	Not reported
Last Entered:	19921208		First Response:	19921202
Spill Date:	Not reported		Spill Time:	Not reported
Report Date:	Not reported		Report Time:	Not reported
Case Closed:	YES		Mat Type:	PETROLEUM
Virgin Waste:	------		Contam Soil:	Not reported
Env Impact:	Not reported		Other Impact:	Not reported
Material:	OTHER MATERIAL	-->	Other Material:	OIL SHEEN
Qty Reported:	SHEEN		Qty Actual:	SHEEN
Qty Reported:	----------		Qty Actual:	----------
CAS No:	Not reported		PCB Lev (ppm):	----------
Source:	----------		Other Source:	Not reported
Incident:	----------		Other Incdnt:	Not reported
Cleanup Type:	---		Contractor:	NOT USED
Referral:	NO		LUST Elig:	NO
Report Prep:	Not reported		Category:	Not reported
Notifier:	LT BURKE/USCG			

WATERWAY (Continued) **S101044937**

Notif Tel: Not reported
Days/Close: 1

P71
NNW
1/2-1
0.829 mi.
4378 ft.

SEA FUELS
PIER 3
NEW BEDFORD, MA

LAST RELEASE **S103812672** **N/A**

Site 2 of 4 in cluster P

Relative:
Equal

Actual:
0 ft.

LAST:

Facility ID:	4-0014630
Source Type:	AST
Release Town:	NEW BEDFORD
Notification Date:	03/30/1999
Category:	TWO HR
Associated ID:	Not reported
Facility Status:	**Release Action Outcome**
Status Date:	03/29/2000
Phase:	Not reported
Rspns Actn Outcome Class:	A2
Oil Or Haz Material:	Oil

Chemical:

Chemical:	FUEL OIL
Quantity:	200 gallons

Location:

Location Type:	COMMERCIAL

Source:

Source Type:	AST

Action:

Action Type:	Response Action Outcome
Action Stat:	Fee Received
Action Date:	03/31/2000
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome
Action Stat:	RAO Statement Received
Action Date:	03/29/2000
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response
Action Stat:	Completion Statement Received
Action Date:	03/29/2000
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	04/07/1999
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Notice of Responsibility
Action Stat:	FLDISS
Action Date:	03/30/1999

SEA FUELS (Continued) **S103812672**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 03/30/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 03/30/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 4-0014630
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 03/30/1999
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 03/29/2000
Phase: Not reported
Rspns Actn Outcome Class: A2
Oil / Haz Material Type: Oil

Action:
Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 03/31/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/29/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 03/29/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 04/07/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: FLDISS
Action Date: 03/30/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

SEA FUELS (Continued) **S103812672**

reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 03/30/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 03/30/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: FUEL OIL
Quantity: 200 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: AST

Action:
Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 03/31/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 03/29/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 03/29/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 04/07/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: FLDISS
Action Date: 03/30/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 03/30/1999

SEA FUELS (Continued) **S103812672**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 03/30/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

P72 NNW 1/2-1 0.829 mi. 4378 ft. **NEW BEDFORD HARBOR PIER 3 NEW BEDFORD, MA** **SHWS RELEASE** **S105125157 N/A**

Site 3 of 4 in cluster P

Relative: Equal

Actual: 0 ft.

SHWS:
Facility ID: 4-0016171
Release Town: NEW BEDFORD
Notification Date: 04/06/2001
Category: TWO HR
Associated ID: Not reported
Compliance Status: Adequately Regulated
Status Date: 04/06/2001
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:
Chemical: OILY SHEEN
Quantity: Not reported

Location:
Location Type: WATERBODY

Source:
Source Type: UNKNOWN

Action:
Action Type: Release
Action Stat: REPORT
Action Date: 04/06/2001
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: USCG
Action Date: 04/06/2001
Response Action Outcome: Not reported

Release:
Facility ID: 4-0016171
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 04/06/2001
Category: TWO HR
Facility Status: ADQREG
Status Date: 04/06/2001
Phase: Not reported

NEW BEDFORD HARBOR (Continued) **S105125157**

Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: Release
Action Stat: REPORT
Action Date: 04/06/2001
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: USCG
Action Date: 04/06/2001
Response Action Outcome: Not reported

Chemical:
Chemical: OILY SHEEN
Quantity: Not reported

Location:
Location Type: WATERBODY

Source:
Source Type: UNKNOWN

Action:
Action Type: Release
Action Stat: REPORT
Action Date: 04/06/2001
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: USCG
Action Date: 04/06/2001
Response Action Outcome: Not reported

P73 **CRYSTAL ICE** **SHWS** **S105125167**
NNW **PIER 3** **RELEASE** **N/A**
1/2-1 **NEW BEDFORD, MA**
0.829 mi.
4378 ft. **Site 4 of 4 in cluster P**

Relative:
Equal

Actual:
0 ft.

SHWS:
Facility ID: 4-0016207
Release Town: NEW BEDFORD
Notification Date: 04/19/2001
Category: TWO HR
Associated ID: Not reported
Compliance Status: **Adequately Regulated**
Status Date: 04/19/2001
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:
Chemical: OILY SHEEN
Quantity: 40 gallons

Location:
Location Type: WATERBODY

CRYSTAL ICE (Continued) **S105125167**

Source:
Source Type: BOAT

Action:
Action Type: Release
Action Stat: REPORT
Action Date: 04/19/2001
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: USCG
Action Date: 04/19/2001
Response Action Outcome: Not reported

Release:
Facility ID: 4-0016207
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 04/19/2001
Category: TWO HR
Facility Status: ADQREG
Status Date: 04/19/2001
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: Release
Action Stat: REPORT
Action Date: 04/19/2001
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: USCG
Action Date: 04/19/2001
Response Action Outcome: Not reported

Chemical:
Chemical: OILY SHEEN
Quantity: 40 gallons

Location:
Location Type: WATERBODY

Source:
Source Type: BOAT

Action:
Action Type: Release
Action Stat: REPORT
Action Date: 04/19/2001
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: USCG
Action Date: 04/19/2001
Response Action Outcome: Not reported

74 NW 1/2-1 0.835 mi. 4411 ft. | **INTER-CHURCH COUNCIL GREATER NEW BEDFORD**
412 COUNTY ST
NEW BEDFORD, MA 02740 | **SHWS RELEASE** | **S108858908 N/A**

Relative: Higher

Actual: 81 ft.

SHWS:

Facility ID:	4-0020730
Release Town:	NEW BEDFORD
Notification Date:	08/20/2007
Category:	120 DY
Associated ID:	Not reported
Compliance Status:	**Release Action Outcome**
Status Date:	12/12/2007
Phase:	Not reported
Response Action Outcome Class:	A2
Oil Or Haz Material:	Oil and Hazardous Material

Chemical:

Chemical:	PHENANTHRENE
Quantity:	.073 milligrams per liter
Chemical:	2-METHYLNAPHTHALENE
Quantity:	12 milligrams per kilogram
Chemical:	C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity:	39 milligrams per liter
Chemical:	C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity:	1100 milligrams per kilogram

Location:

Location Type:	Not reported

Source:

Source Type:	Not reported

Action:

Action Type:	Response Action Outcome
Action Stat:	Level I - Technical Screen Audit
Action Date:	05/22/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Abatement Measure
Action Stat:	Completion Statement Received
Action Date:	12/12/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome
Action Stat:	RAO Statement Received
Action Date:	12/12/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	08/27/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Abatement Measure
Action Stat:	Level I - Technical Screen Audit

INTER-CHURCH COUNCIL GREATER NEW BEDFORD (Continued) **S108858908**

Action Date: 08/24/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 08/20/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 08/20/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 08/20/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 4-0020730
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 08/20/2007
Category: 120 DY
Facility Status: Response Action Outcome
Status Date: 12/12/2007
Phase: Not reported
Rspns Actn Outcome Class: A2
Oil / Haz Material Type: Oil and Hazardous Material

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 05/22/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 12/12/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 12/12/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 08/27/2007

INTER-CHURCH COUNCIL GREATER NEW BEDFORD (Continued) **S108858908**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Level I - Technical Screen Audit
Action Date: 08/24/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 08/20/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 08/20/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 08/20/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: PHENANTHRENE
Quantity: .073 milligrams per liter
Chemical: 2-METHYLNAPHTHALENE
Quantity: 12 milligrams per kilogram
Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity: 39 milligrams per liter
Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity: 1100 milligrams per kilogram

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 05/22/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 12/12/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received

INTER-CHURCH COUNCIL GREATER NEW BEDFORD (Continued) **S108858908**

Action Date: 12/12/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 08/27/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Level I - Technical Screen Audit
Action Date: 08/24/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 08/20/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 08/20/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 08/20/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

O75
ENE
1/2-1
0.838 mi.
4422 ft.

FV LEGACY
50 FORT ST
FAIRHAVEN, MA 02719

SHWS **1004288994**
RELEASE **N/A**

Site 2 of 4 in cluster O

Relative:
Higher

Actual:
15 ft.

SHWS:
Facility ID: 4-0016541
Release Town: FAIRHAVEN
Notification Date: 09/03/2001
Category: TWO HR
Associated ID: Not reported
Compliance Status: **Release Action Outcome**
Status Date: 07/10/2002
Phase: Not reported
Response Action Outcome Class: A1
Oil Or Haz Material: Oil

Chemical:
Chemical: DIESEL FUEL
Quantity: Not reported

Location:
Location Type: WATERBODY

FV LEGACY (Continued) **1004288994**

Location Type: COMMERCIAL

Source:
Source Type: BOAT

Action:
Action Type: RLFA
Action Stat: FOLOFF
Action Date: 07/15/2002
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
Action Stat: Fee Received
Action Date: 07/11/2002
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 Stat: Completion Statement Received
Action Date: 07/10/2002
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: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/10/2002
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: RNF
Action Stat: REPORT
Action Date: 07/10/2002
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: RLFA
Action Stat: FOLOFF
Action Date: 05/10/2002
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: C&E
Action Stat: NON
Action Date: 03/27/2002
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 09/20/2001
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 Stat: FOLOFF
Action Date: 09/03/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced

FV LEGACY (Continued) **1004288994**

to background or a threat of release has been eliminated.

Action Type: Release
Action Stat: REPORT
Action Date: 09/03/2001
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 Stat: FLDD1A
Action Date: 09/03/2001
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 Stat: Oral Approval of Plan
Action Date: 09/03/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Facility ID: 4-0016541
Primary ID: Not reported
Official City: FAIRHAVEN
Notification: 09/03/2001
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 07/10/2002
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil / Haz Material Type: Oil

Action:
Action Type: RLFA
Action Stat: FOLOFF
Action Date: 07/15/2002
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
Action Stat: Fee Received
Action Date: 07/11/2002
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 Stat: Completion Statement Received
Action Date: 07/10/2002
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: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/10/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

FV LEGACY (Continued) **1004288994**

Action Type: RNF
Action Stat: REPORT
Action Date: 07/10/2002
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: RLFA
Action Stat: FOLOFF
Action Date: 05/10/2002
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: C&E
Action Stat: NON
Action Date: 03/27/2002
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 09/20/2001
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 Stat: FOLOFF
Action Date: 09/03/2001
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
Action Stat: REPORT
Action Date: 09/03/2001
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 Stat: FLDD1A
Action Date: 09/03/2001
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 Stat: Oral Approval of Plan
Action Date: 09/03/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:
Chemical: DIESEL FUEL
Quantity: Not reported

Location:
Location Type: WATERBODY
Location Type: COMMERCIAL

Source:
Source Type: BOAT

FV LEGACY (Continued) **1004288994**

Action:

Action Type:	RLFA
Action Stat:	FOLOFF
Action Date:	07/15/2002
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
Action Stat:	Fee Received
Action Date:	07/11/2002
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 Stat:	Completion Statement Received
Action Date:	07/10/2002
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:	Response Action Outcome
Action Stat:	RAO Statement Received
Action Date:	07/10/2002
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:	RNF
Action Stat:	REPORT
Action Date:	07/10/2002
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:	RLFA
Action Stat:	FOLOFF
Action Date:	05/10/2002
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:	C&E
Action Stat:	NON
Action Date:	03/27/2002
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:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	09/20/2001
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 Stat:	FOLOFF
Action Date:	09/03/2001
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
Action Stat:	REPORT

FV LEGACY (Continued) **1004288994**

Action Date: 09/03/2001
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 Stat: FLDD1A
Action Date: 09/03/2001
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 Stat: Oral Approval of Plan
Action Date: 09/03/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

O76 **FAIRHAVEN SHIPYARD & MARINA INC** **SHWS** **U004014106**
ENE **50 FORT ST** **UST** **N/A**
1/2-1 **FAIRHAVEN, MA 02719** **RELEASE**
0.838 mi. **FINANCIAL ASSURANCE**
4422 ft. **Site 3 of 4 in cluster O**

Relative:
Higher

Actual:
15 ft.

SHWS:
Facility ID: 4-0022339
Release Town: FAIRHAVEN
Notification Date: 12/13/2009
Category: TWO HR
Associated ID: Not reported
Compliance Status: **Adequately Regulated**
Status Date: 12/13/2009
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:
Chemical: DIESEL/#2 FUEL OIL
Quantity: 50 gallons

Location:
Location Type: WATERBODY

Source:
Source Type: UNKNOWN

Action:
Action Type: Release
Action Stat: REPORT
Action Date: 12/13/2009
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: USCG
Action Date: 12/13/2009
Response Action Outcome: Not reported

UST:
Facility ID: 3129

FAIRHAVEN SHIPYARD & MARINA INC (Continued) **U004014106**

Facility:

Owner Id:	2330
Owner:	FAIRHAVEN SHIPYARD & MARINA INC
Owner Address:	50 FORT ST
Owner City,St,Zip:	FAIRHAVEN, MA 02719
Telephone:	(508) 999-1600
Description:	Marina
Fire Dept. ID:	5094
Date of Inspection:	Not reported
Inspector:	Not reported
Overfill Prevention:	Not reported
Spill Prevention:	Not reported

Tank ID:	1
Tank Status:	**In Use**
Tank Useage:	Marina
Tank Material:	Cathodic
Tank Contents:	2 Walls
Tank Leak Detection:	Interstitial Monitoring
Pipe Material:	Reinforced
Pipe Container:	2 Walls
Pipe Leak Detection:	Interstitial Space Monitor
Serial Number:	STIP-3
Aboveground:	No
Capacity:	6000
Contents:	Gasoline

Tank ID:	2
Tank Status:	**In Use**
Tank Useage:	Marina
Tank Material:	Cathodic
Tank Contents:	2 Walls
Tank Leak Detection:	Interstitial Monitoring
Pipe Material:	Reinforced
Pipe Container:	2 Walls
Pipe Leak Detection:	Interstitial Space Monitor
Serial Number:	STIP-3
Aboveground:	No
Capacity:	6000
Contents:	Diesel

Release:

Facility ID:	4-0022339
Primary ID:	Not reported
Official City:	FAIRHAVEN
Notification:	12/13/2009
Category:	TWO HR
Facility Status:	ADQREG
Status Date:	12/13/2009
Phase:	Not reported
Rspns Actn Outcome Class:	Not reported
Oil / Haz Material Type:	Not reported

Action:

Action Type:	Release

FAIRHAVEN SHIPYARD & MARINA INC (Continued) **U004014106**

Action Stat: REPORT
Action Date: 12/13/2009
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: USCG
Action Date: 12/13/2009
Response Action Outcome: Not reported

Chemical:
Chemical: DIESEL/#2 FUEL OIL
Quantity: 50 gallons

Location:
Location Type: WATERBODY

Source:
Source Type: UNKNOWN

Action:
Action Type: Release
Action Stat: REPORT
Action Date: 12/13/2009
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: USCG
Action Date: 12/13/2009
Response Action Outcome: Not reported

FINASS2:
Facility Id: 3129
Description: Marina
Work Phone: (508) 999-1600
Financial Resp: Commercial, State Fund, Normal

O77 **FAIRHAVEN SHIPYARD & MARINA** **RCRA-SQG** **1004717186**
ENE **50 FORT ST** **FINDS** **MAD982189631**
1/2-1 **FAIRHAVEN, MA 02719** **SHWS**
0.838 mi. **MANIFEST**
4422 ft. **Site 4 of 4 in cluster O** **RELEASE**

Relative: Higher

Actual: 15 ft.

RCRA-SQG:
Date form received by agency: 04/01/2008
Facility name: FAIRHAVEN SHIPYARD & MARINA
Facility address: 50 FORT ST
FAIRHAVEN, MA 02719
EPA ID: MAD982189631
Contact: KEVIN MCLAUGHLIN
Contact address: 50 FORT ST
FAIRHAVEN, MA 027190000
Contact country: US
Contact telephone: (508) 996-1600
Contact email: Not reported
EPA Region: 01
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous

FAIRHAVEN SHIPYARD & MARINA (Continued) **1004717186**

waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	KEVIN MCLAUGHLIN
Owner/operator address:	50 FORT ST FAIRHAVEN, MA 02719
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	12/01/2005
Owner/Op end date:	Not reported

Owner/operator name:	RODMAN CANDLEWORKS REALTY LLC
Owner/operator address:	50 FORT ST FAIRHAVEN, MA 02719
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	12/01/2005
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
Off-site waste receiver:	Commercial status unknown

Historical Generators:

Date form received by agency:	02/17/1987
Facility name:	FAIRHAVEN SHIPYARD & MARINA
Classification:	Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:

Waste code:	D001
Waste name:	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET,

FAIRHAVEN SHIPYARD & MARINA (Continued) **1004717186**

WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D018
Waste name: BENZENE

Waste code: D035
Waste name: METHYL ETHYL KETONE

Waste code: D039
Waste name: TETRACHLOROETHYLENE

Waste code: D040
Waste name: TRICHLOROETHYLENE

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED 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 NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED 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 NON-HALOGENATED 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 NON-HALOGENATED 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: MA01
Waste name: WASTE OIL

Waste code: MA98
Waste name: OFF SPECIFICATION USED OIL FUEL THAT IS SHIPPED USING A HW MANIFEST

Violation Status: No violations found

FINDS:

Registry ID: 110006817196

Environmental Interest/Information System
US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

FAIRHAVEN SHIPYARD & MARINA (Continued) **1004717186**

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

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

SHWS:

Facility ID:	4-0012206
Release Town:	FAIRHAVEN
Notification Date:	05/24/1996
Category:	TWO HR
Associated ID:	Not reported
Compliance Status:	**Release Action Outcome**
Status Date:	06/14/1996
Phase:	Not reported
Response Action Outcome Class:	A1
Oil Or Haz Material:	Not reported

Chemical:

Chemical:	HYDRAULIC OIL
Quantity:	100 gallons

Location:

Location Type:	Not reported

Source:

Source Type:	Not reported

Action:

Action Type:	Immediate Response
Action Stat:	Written Plan Received
Action Date:	06/14/1996
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
Action Stat:	RAO Statement Received
Action Date:	06/14/1996
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced

FAIRHAVEN SHIPYARD & MARINA (Continued) **1004717186**

to background or a threat of release has been eliminated.

Action Type: RNF
Action Stat: REPORT
Action Date: 06/14/1996
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 05/28/1996
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
Action Stat: REPORT
Action Date: 05/24/1996
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 Stat: FOLOFF
Action Date: 05/24/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

MANIFEST:
GEN Cert Date: 8/5/1987
Transporter Recpt Date: Not reported
Number Of Containers: 0
Container Type: Not reported
Waste Code1: MA01
Waste Code2: Not reported
Waste Code3: Not reported
Comment: Not reported
Fee Exempt Code: Not reported
TSDF Name: NIC
TSDF ID: RID991302407
TSDF Date: Not reported
Date Imported: Not reported
Transporter 2 Name: Not reported
Transporter 2 ID: Not reported
Manifest Docket Number: Not reported
Waste Description: Not reported
Quantity: Not reported
WT/Vol Units: Not reported
Item Number: Not reported
Transporter Name: Not reported
Transporter EPA ID: Not reported
GEN Cert Date: Not reported
Transporter Recpt Date: Not reported
Transporter 2 Recpt Date: Not reported
TSDF Recpt Date: Not reported
EPA ID: Not reported
Transporter 2 ID: Not reported

FAIRHAVEN SHIPYARD & MARINA (Continued) **1004717186**

Release:

Facility ID:	4-0012206
Primary ID:	Not reported
Official City:	FAIRHAVEN
Notification:	05/24/1996
Category:	TWO HR
Facility Status:	Response Action Outcome
Status Date:	06/14/1996
Phase:	Not reported
Rspns Actn Outcome Class:	A1
Oil / Haz Material Type:	Not reported

Action:

Action Type:	Immediate Response
Action Stat:	Written Plan Received
Action Date:	06/14/1996
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
Action Stat:	RAO Statement Received
Action Date:	06/14/1996
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 Stat:	REPORT
Action Date:	06/14/1996
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:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	05/28/1996
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
Action Stat:	REPORT
Action Date:	05/24/1996
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 Stat:	FOLOFF
Action Date:	05/24/1996
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:

Chemical:	HYDRAULIC OIL
Quantity:	100 gallons

Location:

Location Type:	Not reported

Source:

Source Type:	Not reported

FAIRHAVEN SHIPYARD & MARINA (Continued) **1004717186**

Action:

Action Type:	Immediate Response
Action Stat:	Written Plan Received
Action Date:	06/14/1996
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
Action Stat:	RAO Statement Received
Action Date:	06/14/1996
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 Stat:	REPORT
Action Date:	06/14/1996
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:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	05/28/1996
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
Action Stat:	REPORT
Action Date:	05/24/1996
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 Stat:	FOLOFF
Action Date:	05/24/1996
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

78
NNW
1/2-1
0.841 mi.
4443 ft.

NO LOCATION AID
343 ACUSHNET AVE
NEW BEDFORD, MA

LAST RELEASE **S106954228** **N/A**

Relative:
Higher

Actual:
41 ft.

LAST:

Facility ID:	4-0019041
Source Type:	AST
Release Town:	NEW BEDFORD
Notification Date:	04/22/2005
Category:	TWO HR
Associated ID:	Not reported
Facility Status:	**Tier 1D, a release where the responsible party fails to provide a required submittal to DEP by a specified deadline.**
Status Date:	05/01/2006
Phase:	Not reported
Rspns Actn Outcome Class:	Not reported
Oil Or Haz Material:	Oil

NO LOCATION AID (Continued) **S106954228**

Chemical:
Chemical: #2 FUEL OIL
Quantity: 15 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: AST

Action:
Action Type: RLFA
Action Stat: FLDRUN
Action Date: 01/18/2008
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: NOEC
Action Date: 09/27/2007
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDD1U
Action Date: 06/15/2007
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: NON
Action Date: 07/13/2006
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: NON
Action Date: 02/06/2006
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 05/17/2005
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 05/12/2005
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 05/10/2005
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: INTLET
Action Date: 05/04/2005
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED

NO LOCATION AID (Continued) **S106954228**

Action Date: 05/04/2005
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 04/22/2005
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: FLDISS
Action Date: 04/22/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 04/22/2005
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 04/22/2005
Response Action Outcome: Not reported

Release:
Facility ID: 4-0019041
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 04/22/2005
Category: TWO HR
Facility Status: TIER1D
Status Date: 05/01/2006
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Oil

Action:
Action Type: RLFA
Action Stat: FLDRUN
Action Date: 01/18/2008
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: NOEC
Action Date: 09/27/2007
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDD1U
Action Date: 06/15/2007
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: NON
Action Date: 07/13/2006
Response Action Outcome: Not reported

NO LOCATION AID (Continued) **S106954228**

Action Type: C&E
Action Stat: NON
Action Date: 02/06/2006
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 05/17/2005
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 05/12/2005
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 05/10/2005
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: INTLET
Action Date: 05/04/2005
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 05/04/2005
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 04/22/2005
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: FLDISS
Action Date: 04/22/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 04/22/2005
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 04/22/2005
Response Action Outcome: Not reported

Chemical:
Chemical: #2 FUEL OIL
Quantity: 15 gallons

Location:
Location Type: COMMERCIAL

NO LOCATION AID (Continued) **S106954228**

Source:
Source Type: AST

Action:
Action Type: RLFA
Action Stat: FLDRUN
Action Date: 01/18/2008
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: NOEC
Action Date: 09/27/2007
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDD1U
Action Date: 06/15/2007
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: NON
Action Date: 07/13/2006
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: NON
Action Date: 02/06/2006
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 05/17/2005
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 05/12/2005
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 05/10/2005
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: INTLET
Action Date: 05/04/2005
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 05/04/2005
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 04/22/2005

NO LOCATION AID (Continued) **S106954228**

Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: FLDISS
Action Date: 04/22/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 04/22/2005
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 04/22/2005
Response Action Outcome: Not reported

79
NW
1/2-1
0.846 mi.
4468 ft.

184 UNION @ PURCHASE
185-187 UNION ST
NEW BEDFORD, MA

SHWS RELEASE **S106617703 N/A**

Relative: Higher

Actual: 53 ft.

SHWS:
Facility ID: 4-0018678
Release Town: NEW BEDFORD
Notification Date: 09/14/2004
Category: TWO HR
Associated ID: Not reported
Compliance Status: Submittal Invalidated by DEP
Status Date: 07/05/2005
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:
Chemical: #2 HEATING OIL
Quantity: 398 gallons

Location:
Location Type: RESIDNTIAL

Source:
Source Type: PIPE

Action:
Action Type: C&E
Action Stat: NON
Action Date: 04/06/2006
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 09/27/2005
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: Revised Statement or Transmittal Received
Action Date: 09/06/2005

184 UNION @ PURCHASE (Continued) **S106617703**

Response Action Outcome: Not reported

Action Type: C&E
Action Stat: NOEC
Action Date: 07/25/2005
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: Action Audited
Action Date: 07/05/2005
Response Action Outcome: Not reported

Action Type: AUDCOM
Action Stat: NAFNON
Action Date: 07/05/2005
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: INVSUB
Action Date: 07/05/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 01/11/2005
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 01/11/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 12/01/2004
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 11/15/2004
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 11/15/2004
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/25/2004
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/12/2004
Response Action Outcome: Not reported

184 UNION @ PURCHASE (Continued) **S106617703**

Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	09/24/2004
Response Action Outcome:	Not reported

Action Type:	Notice of Responsibility
Action Stat:	FLDISS
Action Date:	09/14/2004
Response Action Outcome:	Not reported

Action Type:	Immediate Response
Action Stat:	Oral Approval of Plan
Action Date:	09/14/2004
Response Action Outcome:	Not reported

Action Type:	Release
Action Stat:	REPORT
Action Date:	09/14/2004
Response Action Outcome:	Not reported

Action Type:	RLFA
Action Stat:	FLDD1A
Action Date:	09/14/2004
Response Action Outcome:	Not reported

Release:

Facility ID:	4-0018678
Primary ID:	Not reported
Official City:	NEW BEDFORD
Notification:	09/14/2004
Category:	TWO HR
Facility Status:	INVSUB
Status Date:	07/05/2005
Phase:	Not reported
Rspns Actn Outcome Class:	Not reported
Oil / Haz Material Type:	Not reported

Action:

Action Type:	C&E
Action Stat:	NON
Action Date:	04/06/2006
Response Action Outcome:	Not reported

Action Type:	Response Action Outcome
Action Stat:	Level I - Technical Screen Audit
Action Date:	09/27/2005
Response Action Outcome:	Not reported

Action Type:	Response Action Outcome
Action Stat:	Revised Statement or Transmittal Received
Action Date:	09/06/2005
Response Action Outcome:	Not reported

Action Type:	C&E
Action Stat:	NOEC
Action Date:	07/25/2005

184 UNION @ PURCHASE (Continued) **S106617703**

Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: Action Audited
Action Date: 07/05/2005
Response Action Outcome: Not reported

Action Type: AUDCOM
Action Stat: NAFNON
Action Date: 07/05/2005
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: INVSUB
Action Date: 07/05/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 01/11/2005
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 01/11/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 12/01/2004
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 11/15/2004
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 11/15/2004
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/25/2004
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/12/2004
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 09/24/2004
Response Action Outcome: Not reported

184 UNION @ PURCHASE (Continued) **S106617703**

Action Type: Notice of Responsibility
Action Stat: FLDISS
Action Date: 09/14/2004
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 09/14/2004
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 09/14/2004
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 09/14/2004
Response Action Outcome: Not reported

Chemical:
Chemical: #2 HEATING OIL
Quantity: 398 gallons

Location:
Location Type: RESIDNTIAL

Source:
Source Type: PIPE

Action:
Action Type: C&E
Action Stat: NON
Action Date: 04/06/2006
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 09/27/2005
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: Revised Statement or Transmittal Received
Action Date: 09/06/2005
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: NOEC
Action Date: 07/25/2005
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: Action Audited
Action Date: 07/05/2005
Response Action Outcome: Not reported

Action Type: AUDCOM
Action Stat: NAFNON

184 UNION @ PURCHASE (Continued) **S106617703**

Action Date: 07/05/2005
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: INVSUB
Action Date: 07/05/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 01/11/2005
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 01/11/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 12/01/2004
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 11/15/2004
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 11/15/2004
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/25/2004
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/12/2004
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 09/24/2004
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: FLDISS
Action Date: 09/14/2004
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 09/14/2004
Response Action Outcome: Not reported

184 UNION @ PURCHASE (Continued) **S106617703**

Action Type:	Release
Action Stat:	REPORT
Action Date:	09/14/2004
Response Action Outcome:	Not reported

Action Type:	RLFA
Action Stat:	FLDD1A
Action Date:	09/14/2004
Response Action Outcome:	Not reported

N80 NW 1/2-1 0.847 mi. 4472 ft. **PRIMA CARE VISION CENTER** **SHWS S104562712**
74 SPRING ST **LAST N/A**
NEW BEDFORD, MA **RELEASE**

Site 2 of 3 in cluster N

Relative: Higher

Actual: 66 ft.

SHWS:

Facility ID:	4-0015333
Release Town:	NEW BEDFORD
Notification Date:	03/12/2000
Category:	TWO HR
Associated ID:	Not reported
Compliance Status:	**Release Action Outcome**
Status Date:	01/04/2001
Phase:	Not reported
Response Action Outcome Class:	A1
Oil Or Haz Material:	Oil

Chemical:

Chemical:	#2 FUEL OIL
Quantity:	Not reported

Location:

Location Type:	COMMERCIAL
Location Type:	RESIDNTIAL

Source:

Source Type:	AST
Source Type:	PIPE

Action:

Action Type:	Response Action Outcome
Action Stat:	Level I - Technical Screen Audit
Action Date:	04/05/2004
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:	Immediate Response
Action Stat:	Completion Statement Received
Action Date:	01/04/2001
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
Action Stat:	RAO Statement Received
Action Date:	01/04/2001
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

PRIMA CARE VISION CENTER (Continued) **S104562712**

Action Type: RNF
Action Stat: REPORT
Action Date: 01/04/2001
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
Action Stat: Fee Received
Action Date: 12/13/2000
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: C&E
Action Stat: NON
Action Date: 12/08/2000
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 03/15/2000
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: RLFA
Action Stat: FOLFLD
Action Date: 03/03/2000
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: Notice of Responsibility
Action Stat: FLDISS
Action Date: 03/03/2000
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
Action Stat: REPORT
Action Date: 03/02/2000
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: RLFA
Action Stat: FOLFLD
Action Date: 03/02/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

LAST:
Facility ID: 4-0015333
Source Type: AST
Release Town: NEW BEDFORD
Notification Date: 03/12/2000
Category: TWO HR
Associated ID: Not reported
Facility Status: Release Action Outcome

PRIMA CARE VISION CENTER (Continued) **S104562712**

Status Date: 01/04/2001
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil Or Haz Material: Oil

Chemical:
Chemical: #2 FUEL OIL
Quantity: Not reported

Location:
Location Type: COMMERCIAL
Location Type: RESIDNTIAL

Source:
Source Type: AST
Source Type: PIPE

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 04/05/2004
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: Immediate Response
Action Stat: Completion Statement Received
Action Date: 01/04/2001
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
Action Stat: RAO Statement Received
Action Date: 01/04/2001
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 Stat: REPORT
Action Date: 01/04/2001
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
Action Stat: Fee Received
Action Date: 12/13/2000
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: C&E
Action Stat: NON
Action Date: 12/08/2000
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 03/15/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

PRIMA CARE VISION CENTER (Continued) **S104562712**

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 03/03/2000
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: Notice of Responsibility
Action Stat: FLDISS
Action Date: 03/03/2000
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
Action Stat: REPORT
Action Date: 03/02/2000
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: RLFA
Action Stat: FOLFLD
Action Date: 03/02/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Facility ID: 4-0015333
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 03/12/2000
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 01/04/2001
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil / Haz Material Type: Oil

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 04/05/2004
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: Immediate Response
Action Stat: Completion Statement Received
Action Date: 01/04/2001
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
Action Stat: RAO Statement Received
Action Date: 01/04/2001
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

PRIMA CARE VISION CENTER (Continued) **S104562712**

Action Stat: REPORT
Action Date: 01/04/2001
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
Action Stat: Fee Received
Action Date: 12/13/2000
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: C&E
Action Stat: NON
Action Date: 12/08/2000
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 03/15/2000
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: RLFA
Action Stat: FOLFLD
Action Date: 03/03/2000
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: Notice of Responsibility
Action Stat: FLDISS
Action Date: 03/03/2000
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
Action Stat: REPORT
Action Date: 03/02/2000
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: RLFA
Action Stat: FOLFLD
Action Date: 03/02/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:
Chemical: #2 FUEL OIL
Quantity: Not reported

Location:
Location Type: COMMERCIAL
Location Type: RESIDNTIAL

Source:
Source Type: AST
Source Type: PIPE

PRIMA CARE VISION CENTER (Continued) **S104562712**

Action:

Action Type:	Response Action Outcome
Action Stat:	Level I - Technical Screen Audit
Action Date:	04/05/2004
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:	Immediate Response
Action Stat:	Completion Statement Received
Action Date:	01/04/2001
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
Action Stat:	RAO Statement Received
Action Date:	01/04/2001
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 Stat:	REPORT
Action Date:	01/04/2001
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
Action Stat:	Fee Received
Action Date:	12/13/2000
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:	C&E
Action Stat:	NON
Action Date:	12/08/2000
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:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	03/15/2000
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:	RLFA
Action Stat:	FOLFLD
Action Date:	03/03/2000
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:	Notice of Responsibility
Action Stat:	FLDISS
Action Date:	03/03/2000
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
Action Stat:	REPORT

PRIMA CARE VISION CENTER (Continued) **S104562712**

Action Date: 03/02/2000
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: RLFA
Action Stat: FOLFLD
Action Date: 03/02/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

81
NE
1/2-1
0.854 mi.
4511 ft.

Relative:
Higher

Actual:
12 ft.

REIDARS MANUFACTURING **SHWS** **S104562734**
10 WATER ST **RELEASE** **N/A**
FAIRHAVEN, MA 02719 **INST CONTROL**

SHWS:
Facility ID: 4-0015406
Release Town: FAIRHAVEN
Notification Date: 04/05/2000
Category: 120 DY
Associated ID: Not reported
Compliance Status: **Release Action Outcome**
Status Date: 04/08/2002
Phase: PHASE II
Response Action Outcome Class: A3
Oil Or Haz Material: Hazardous Material

Chemical:
Chemical: C9-C18 ALIPHATICS
Quantity: 1300 milligrams per kilogram
Chemical: BERYLLIUM
Quantity: 1.3 milligrams per kilogram
Chemical: C11-C22 AROMATICS
Quantity: 560 milligrams per kilogram

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: AUDCOM
Action Stat: Audit Follow-up Completion Statement Received
Action Date: 10/03/2007
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 Stat: Confirmatory AUL received
Action Date: 10/03/2007
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: AUDCOM
Action Stat: NAFNON

REIDARS MANUFACTURING (Continued) **S104562734**

Action Date:	03/15/2007
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 Stat:	Level II - Audit Inspection
Action Date:	02/01/2007
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:	RLFA
Action Stat:	FLDRUN
Action Date:	02/01/2007
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 Stat:	Level I - Technical Screen Audit
Action Date:	05/30/2002
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 Stat:	Transmittal Received
Action Date:	05/01/2002
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
Action Stat:	Level I - Technical Screen Audit
Action Date:	04/29/2002
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 Stat:	Level I - Technical Screen Audit
Action Date:	04/29/2002
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:	AUDCOM
Action Stat:	NAFVIO
Action Date:	04/09/2002
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 Stat:	Legal Notice Published
Action Date:	04/09/2002

REIDARS MANUFACTURING (Continued) **S104562734**

Response Action Outcome: A 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
Action Stat: RAO Statement Received
Action Date: 04/08/2002
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 Stat: Completion Statement Received
Action Date: 12/20/2001
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: AUDCOM
Action Stat: RFIRSP
Action Date: 12/14/2001
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: RLFA
Action Stat: FLDRAN
Action Date: 12/14/2001
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: AUDCOM
Action Stat: RFI
Action Date: 12/03/2001
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: AUDCOM
Action Stat: NOA
Action Date: 12/03/2001
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: AUDCOM
Action Stat: INTLET
Action Date: 12/03/2001
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 I
Action Stat: Action Audited
Action Date: 12/03/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

REIDARS MANUFACTURING (Continued) **S104562734**

reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 04/09/2001
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 I
Action Stat: Completion Statement Received
Action Date: 04/05/2001
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: Tier Classification
Action Stat: Transmittal Received
Action Date: 04/05/2001
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: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 04/05/2001
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: Release Abatement Measure
Action Stat: Fee Received
Action Date: 08/16/2000
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: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 08/15/2000
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/12/2000
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: RNF
Action Stat: REPORT
Action Date: 04/05/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

REIDARS MANUFACTURING (Continued) **S104562734**

been implemented.

Action Type: Release
Action Stat: REPORT
Action Date: 04/05/2000
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.

Release:
Facility ID: 4-0015406
Primary ID: Not reported
Official City: FAIRHAVEN
Notification: 04/05/2000
Category: 120 DY
Facility Status: Response Action Outcome
Status Date: 04/08/2002
Phase: PHASE II
Rspns Actn Outcome Class: A3
Oil / Haz Material Type: Hazardous Material

Action:
Action Type: AUDCOM
Action Stat: Audit Follow-up Completion Statement Received
Action Date: 10/03/2007
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 Stat: Confirmatory AUL received
Action Date: 10/03/2007
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: AUDCOM
Action Stat: NAFNON
Action Date: 03/15/2007
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 Stat: Level II - Audit Inspection
Action Date: 02/01/2007
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: RLFA
Action Stat: FLDRUN
Action Date: 02/01/2007
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.

REIDARS MANUFACTURING (Continued) **S104562734**

Action Type: Activity and Use Limitation
Action Stat: Level I - Technical Screen Audit
Action Date: 05/30/2002
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 Stat: Transmittal Received
Action Date: 05/01/2002
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
Action Stat: Level I - Technical Screen Audit
Action Date: 04/29/2002
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 Stat: Level I - Technical Screen Audit
Action Date: 04/29/2002
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: AUDCOM
Action Stat: NAFVIO
Action Date: 04/09/2002
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 Stat: Legal Notice Published
Action Date: 04/09/2002
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
Action Stat: RAO Statement Received
Action Date: 04/08/2002
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 Stat: Completion Statement Received
Action Date: 12/20/2001
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: AUDCOM

REIDARS MANUFACTURING (Continued) **S104562734**

Action Stat: RFIRSP
Action Date: 12/14/2001
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: RLFA
Action Stat: FLDRAN
Action Date: 12/14/2001
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: AUDCOM
Action Stat: RFI
Action Date: 12/03/2001
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: AUDCOM
Action Stat: NOA
Action Date: 12/03/2001
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: AUDCOM
Action Stat: INTLET
Action Date: 12/03/2001
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 I
Action Stat: Action Audited
Action Date: 12/03/2001
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: Tier Classification
Action Stat: Legal Notice Published
Action Date: 04/09/2001
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 I
Action Stat: Completion Statement Received
Action Date: 04/05/2001
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: Tier Classification
Action Stat: Transmittal Received

REIDARS MANUFACTURING (Continued) **S104562734**

Action Date: 04/05/2001
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: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 04/05/2001
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: Release Abatement Measure
Action Stat: Fee Received
Action Date: 08/16/2000
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: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 08/15/2000
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/12/2000
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: RNF
Action Stat: REPORT
Action Date: 04/05/2000
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: Release
Action Stat: REPORT
Action Date: 04/05/2000
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.

Chemical:
Chemical: C9-C18 ALIPHATICS
Quantity: 1300 milligrams per kilogram
Chemical: BERYLLIUM
Quantity: 1.3 milligrams per kilogram
Chemical: C11-C22 AROMATICS
Quantity: 560 milligrams per kilogram

Location:
Location Type: Not reported

REIDARS MANUFACTURING (Continued) **S104562734**

Source:
Source Type: Not reported

Action:
Action Type: AUDCOM
Action Stat: Audit Follow-up Completion Statement Received
Action Date: 10/03/2007
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 Stat: Confirmatory AUL received
Action Date: 10/03/2007
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: AUDCOM
Action Stat: NAFNON
Action Date: 03/15/2007
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 Stat: Level II - Audit Inspection
Action Date: 02/01/2007
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: RLFA
Action Stat: FLDRUN
Action Date: 02/01/2007
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 Stat: Level I - Technical Screen Audit
Action Date: 05/30/2002
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 Stat: Transmittal Received
Action Date: 05/01/2002
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
Action Stat: Level I - Technical Screen Audit
Action Date: 04/29/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

REIDARS MANUFACTURING (Continued) **S104562734**

reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Stat: Level I - Technical Screen Audit
Action Date: 04/29/2002
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: AUDCOM
Action Stat: NAFVIO
Action Date: 04/09/2002
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 Stat: Legal Notice Published
Action Date: 04/09/2002
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
Action Stat: RAO Statement Received
Action Date: 04/08/2002
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 Stat: Completion Statement Received
Action Date: 12/20/2001
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: AUDCOM
Action Stat: RFIRSP
Action Date: 12/14/2001
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: RLFA
Action Stat: FLDRAN
Action Date: 12/14/2001
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: AUDCOM
Action Stat: RFI
Action Date: 12/03/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

REIDARS MANUFACTURING (Continued) **S104562734**

been implemented.

Action Type: AUDCOM
Action Stat: NOA
Action Date: 12/03/2001
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: AUDCOM
Action Stat: INTLET
Action Date: 12/03/2001
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 I
Action Stat: Action Audited
Action Date: 12/03/2001
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: Tier Classification
Action Stat: Legal Notice Published
Action Date: 04/09/2001
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 I
Action Stat: Completion Statement Received
Action Date: 04/05/2001
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: Tier Classification
Action Stat: Transmittal Received
Action Date: 04/05/2001
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: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 04/05/2001
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: Release Abatement Measure
Action Stat: Fee Received
Action Date: 08/16/2000
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.

REIDARS MANUFACTURING (Continued) **S104562734**

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 08/15/2000
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/12/2000
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: RNF
Action Stat: REPORT
Action Date: 04/05/2000
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: Release
Action Stat: REPORT
Action Date: 04/05/2000
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.

INST CONTROL:
Release Tracking Number: 4-0015406
Action Type: AUL
Action Stat: CONFRM
Action Date: 10/03/2007
Response Action Outcome: A3

Release Tracking Number: 4-0015406
Action Type: AUL
Action Stat: LEGNOT
Action Date: 04/09/2002
Response Action Outcome: A3

Release Tracking Number: 4-0015406
Action Type: AUL
Action Stat: SNAUDI
Action Date: 02/01/2007
Response Action Outcome: A3

Release Tracking Number: 4-0015406
Action Type: AUL
Action Stat: RECPT
Action Date: 05/01/2002
Response Action Outcome: A3

Release Tracking Number: 4-0015406
Action Type: AUL
Action Stat: TSAUD

REIDARS MANUFACTURING (Continued) **S104562734**

Action Date: 05/30/2002
Response Action Outcome: A3

Release Tracking Number: 4-0015406
Action Type: AUL
Action Stat: TSAUD
Action Date: 04/29/2002
Response Action Outcome: A3

N82
NW
1/2-1
0.860 mi.
4542 ft.

MAY INSTITUTE
9 SOUTH 6TH ST
NEW BEDFORD, MA

LAST RELEASE **S107517183** **N/A**

Site 3 of 3 in cluster N

Relative:
Higher

Actual:
70 ft.

LAST:
Facility ID: 4-0019386
Source Type: AST
Release Town: NEW BEDFORD
Notification Date: 10/07/2005
Category: TWO HR
Associated ID: Not reported
Facility Status: Release Action Outcome
Status Date: 10/13/2006
Phase: Not reported
Rspns Actn Outcome Class: A2
Oil Or Haz Material: Oil

Chemical:
Chemical: #2 FUEL OIL
Quantity: 40 gallons

Location:
Location Type: RESIDNTIAL
Location Type: COMMERCIAL

Source:
Source Type: AST

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 10/09/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 10/17/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 10/13/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received

MAY INSTITUTE (Continued) **S107517183**

Action Date: 10/13/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 10/03/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 12/06/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 12/05/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 12/05/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/17/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/11/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/08/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: FLDISS
Action Date: 10/07/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 10/07/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

MAY INSTITUTE (Continued) **S107517183**

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 10/07/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 10/07/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 4-0019386
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 10/07/2005
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 10/13/2006
Phase: Not reported
Rspns Actn Outcome Class: A2
Oil / Haz Material Type: Oil

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 10/09/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 10/17/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 10/13/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 10/13/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 10/03/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA

MAY INSTITUTE (Continued) **S107517183**

Action Stat: FOLOFF
Action Date: 12/06/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 12/05/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 12/05/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/17/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/11/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/08/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: FLDISS
Action Date: 10/07/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 10/07/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 10/07/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 10/07/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

MAY INSTITUTE (Continued) **S107517183**

reduced to background.

Chemical:
Chemical: #2 FUEL OIL
Quantity: 40 gallons

Location:
Location Type: RESIDNTIAL
Location Type: COMMERCIAL

Source:
Source Type: AST

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 10/09/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 10/17/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 10/13/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 10/13/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 10/03/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 12/06/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 12/05/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT

MAY INSTITUTE (Continued) **S107517183**

Action Date: 12/05/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/17/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/11/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/08/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: FLDISS
Action Date: 10/07/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 10/07/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 10/07/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 10/07/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

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83 **HATHAWAY BRALEY FMR** **SHWS** **S100351824**
NE **14 MAIN ST** **LUST** **N/A**
1/2-1 **FAIRHAVEN, MA 02719** **RELEASE**
0.881 mi.
4652 ft.

Relative:
Higher

Actual:
7 ft.

SHWS:
Facility ID: 4-0000785
Release Town: FAIRHAVEN
Notification Date: 10/15/1989
Category: NONE

HATHAWAY BRALEY FMR (Continued) **S100351824**

Associated ID: 4-0000785
Compliance Status: Remedy Operation Status
Status Date: 04/06/2001
Phase: PHASE V
Response Action Outcome Class: Not reported
Oil Or Haz Material: Oil

Chemical:
Chemical: VOCS
Quantity: Not reported

Location:
Location Type: RAILROAD
Location Type: FORMER

Source:
Source Type: UNKNOWN
Source Type: UST

Action:
Action Type: Phase V
Action Stat: Status Report Received
Action Date: 09/04/2009
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 03/05/2009
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 03/05/2009
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 09/02/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVTC
Action Date: 06/17/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 02/25/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 08/29/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 03/19/2007
Response Action Outcome: Not reported

HATHAWAY BRALEY FMR (Continued) **S100351824**

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 09/20/2006
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 03/20/2006
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Level II - Audit Inspection
Action Date: 01/25/2006
Response Action Outcome: Not reported

Action Type: AUDCOM
Action Stat: NAFNON
Action Date: 01/25/2006
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 12/29/2005
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: As-Built Construction report Received
Action Date: 12/29/2005
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 11/02/2005
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 03/21/2005
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 08/26/2004
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 04/21/2004
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 09/29/2003
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD

HATHAWAY BRALEY FMR (Continued) **S100351824**

Action Date: 02/03/2003
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 04/06/2001
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 04/06/2001
Response Action Outcome: Not reported

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 04/06/2001
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 04/06/2001
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 11/29/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Transfer
Action Date: 11/29/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 11/21/1995
Response Action Outcome: Not reported

Action Type: Partial Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 11/17/1995
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 11/13/1995
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 11/21/1990
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: WAVACC
Action Date: 11/21/1990
Response Action Outcome: Not reported

HATHAWAY BRALEY FMR (Continued) **S100351824**

Action Type:	TREGS
Action Stat:	WAVSIG
Action Date:	11/01/1990
Response Action Outcome:	Not reported

Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	10/24/1990
Response Action Outcome:	Not reported

Action Type:	Release
Action Stat:	TCTRNS
Action Date:	10/15/1989
Response Action Outcome:	Not reported

Action Type:	TREGS
Action Stat:	WAVREC
Action Date:	08/21/1989
Response Action Outcome:	Not reported

Facility ID:	4-0020656
Release Town:	FAIRHAVEN
Notification Date:	06/18/2007
Category:	120 DY
Associated ID:	4-0000785
Compliance Status:	**Response Action Outcome Not Required**
Status Date:	06/17/2008
Phase:	Not reported
Response Action Outcome Class:	Not reported
Oil Or Haz Material:	Oil and Hazardous Material

Chemical:

Chemical:	LEAD
Quantity:	578 milligrams per kilogram
Chemical:	BENZO[A]PYRENE
Quantity:	3.25 milligrams per kilogram
Chemical:	C11 THRU C22 AROMATIC HYDROCARBONS
Quantity:	803 milligrams per kilogram
Chemical:	AROCLOR 1254
Quantity:	9.9 milligrams per kilogram

Location:

Location Type:	Not reported

Source:

Source Type:	UNKNOWN

Action:

Action Type:	Tier Classification
Action Stat:	LNKVTC
Action Date:	06/17/2008
Response Action Outcome:	Not reported

Action Type:	Response Action Outcome Not Required
Action Stat:	Related to a Tier Classified Site
Action Date:	06/17/2008
Response Action Outcome:	Not reported

HATHAWAY BRALEY FMR (Continued) **S100351824**

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 06/02/2008
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Level I - Technical Screen Audit
Action Date: 11/28/2007
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 11/27/2007
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 11/27/2007
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/30/2007
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 08/03/2007
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Level I - Technical Screen Audit
Action Date: 08/02/2007
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 07/31/2007
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 06/18/2007
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 06/18/2007
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Transfer
Action Date: 11/29/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification

HATHAWAY BRALEY FMR (Continued) **S100351824**

Action Date:	11/21/1995
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	Tier 2 Extension
Action Date:	11/13/1995
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	Transmittal Received
Action Date:	11/21/1990
Response Action Outcome:	Not reported

LUST:

Facility:

Facility ID:	4-0016178
Facility Status:	**Response Action Outcome Not Required**
Status Date:	09/12/2001
Source Type:	UST
Release Town:	FAIRHAVEN
Notification Date:	04/10/2001
Category:	72 HR
Associated ID:	Not reported
Phase:	Not reported
Rspns Actn Outcome Class:	Not reported
Oil Or Haz Material:	Oil

Chemical:

Chemical:	#2 FUEL OIL
Quantity:	3 inches

Location:

Location Type:	COMMERCIAL

Source:

Source Type:	UST

Action:

Action Type:	Immediate Response
Action Stat:	Level I - Technical Screen Audit
Action Date:	09/14/2001
Response Action Outcome:	Not reported
Action Type:	Immediate Response
Action Stat:	Completion Statement Received
Action Date:	09/12/2001
Response Action Outcome:	Not reported
Action Type:	Immediate Response
Action Stat:	Written Plan Received
Action Date:	09/12/2001
Response Action Outcome:	Not reported
Action Type:	Response Action Outcome Not Required
Action Stat:	Related to a Tier Classified Site
Action Date:	09/12/2001
Response Action Outcome:	Not reported

HATHAWAY BRALEY FMR (Continued) **S100351824**

Action Type:	RLFA
Action Stat:	FOLOFF
Action Date:	04/10/2001
Response Action Outcome:	Not reported

Action Type:	Release
Action Stat:	REPORT
Action Date:	04/10/2001
Response Action Outcome:	Not reported

Action Type:	Immediate Response
Action Stat:	Oral Approval of Plan
Action Date:	04/10/2001
Response Action Outcome:	Not reported

Facility:

Facility ID:	4-0000785
Facility Status:	**Remedy Operation Status**
Status Date:	04/06/2001
Source Type:	UST
Release Town:	FAIRHAVEN
Notification Date:	10/15/1989
Category:	NONE
Associated ID:	4-0000785
Phase:	PHASE V
Rspns Actn Outcome Class:	Not reported
Oil Or Haz Material:	Oil

Chemical:

Chemical:	VOCS
Quantity:	Not reported

Location:

Location Type:	RAILROAD
Location Type:	FORMER

Source:

Source Type:	UNKNOWN
Source Type:	UST

Action:

Action Type:	Phase V
Action Stat:	Status Report Received
Action Date:	09/04/2009
Response Action Outcome:	Not reported

Action Type:	Release Abatement Measure
Action Stat:	Completion Statement Received
Action Date:	03/05/2009
Response Action Outcome:	Not reported

Action Type:	Phase V
Action Stat:	Status Report Received
Action Date:	03/05/2009
Response Action Outcome:	Not reported

Action Type:	Phase V
Action Stat:	Status Report Received

HATHAWAY BRALEY FMR (Continued) **S100351824**

Action Date: 09/02/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVTC
Action Date: 06/17/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 02/25/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 08/29/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 03/19/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 09/20/2006
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 03/20/2006
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Level II - Audit Inspection
Action Date: 01/25/2006
Response Action Outcome: Not reported

Action Type: AUDCOM
Action Stat: NAFNON
Action Date: 01/25/2006
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 12/29/2005
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: As-Built Construction report Received
Action Date: 12/29/2005
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 11/02/2005
Response Action Outcome: Not reported

HATHAWAY BRALEY FMR (Continued) **S100351824**

Action Type: Phase V
Action Stat: IMRCD
Action Date: 03/21/2005
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 08/26/2004
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 04/21/2004
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 09/29/2003
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 02/03/2003
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 04/06/2001
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 04/06/2001
Response Action Outcome: Not reported

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 04/06/2001
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 04/06/2001
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 11/29/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Transfer
Action Date: 11/29/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification

HATHAWAY BRALEY FMR (Continued) **S100351824**

Action Date: 11/21/1995
Response Action Outcome: Not reported

Action Type: Partial Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 11/17/1995
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 11/13/1995
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 11/21/1990
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: WAVACC
Action Date: 11/21/1990
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: WAVSIG
Action Date: 11/01/1990
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/24/1990
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 10/15/1989
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: WAVREC
Action Date: 08/21/1989
Response Action Outcome: Not reported

Release:
Facility ID: 4-0000785
Primary ID: 4-0000785
Official City: FAIRHAVEN
Notification: 10/15/1989
Category: NONE
Facility Status: REMOPS
Status Date: 04/06/2001
Phase: PHASE V
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Oil

Action:

HATHAWAY BRALEY FMR (Continued) **S100351824**

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 09/04/2009
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 03/05/2009
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 03/05/2009
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 09/02/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVTC
Action Date: 06/17/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 02/25/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 08/29/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 03/19/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 09/20/2006
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 03/20/2006
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Level II - Audit Inspection
Action Date: 01/25/2006
Response Action Outcome: Not reported

Action Type: AUDCOM
Action Stat: NAFNON

HATHAWAY BRALEY FMR (Continued) **S100351824**

Action Date: 01/25/2006
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 12/29/2005
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: As-Built Construction report Received
Action Date: 12/29/2005
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 11/02/2005
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 03/21/2005
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 08/26/2004
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 04/21/2004
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 09/29/2003
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 02/03/2003
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 04/06/2001
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 04/06/2001
Response Action Outcome: Not reported

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 04/06/2001
Response Action Outcome: Not reported

HATHAWAY BRALEY FMR (Continued) **S100351824**

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 04/06/2001
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 11/29/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Transfer
Action Date: 11/29/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 11/21/1995
Response Action Outcome: Not reported

Action Type: Partial Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 11/17/1995
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 11/13/1995
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 11/21/1990
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: WAVACC
Action Date: 11/21/1990
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: WAVSIG
Action Date: 11/01/1990
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/24/1990
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 10/15/1989
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: WAVREC

HATHAWAY BRALEY FMR (Continued) **S100351824**

Action Date: 08/21/1989
Response Action Outcome: Not reported

Chemical:
Chemical: VOCS
Quantity: Not reported

Location:
Location Type: RAILROAD
Location Type: FORMER

Source:
Source Type: UNKNOWN
Source Type: UST

Action:
Action Type: Phase V
Action Stat: Status Report Received
Action Date: 09/04/2009
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 03/05/2009
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 03/05/2009
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 09/02/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVTC
Action Date: 06/17/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 02/25/2008
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 08/29/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 03/19/2007
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Status Report Received

HATHAWAY BRALEY FMR (Continued) **S100351824**

Action Date: 09/20/2006
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 03/20/2006
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Level II - Audit Inspection
Action Date: 01/25/2006
Response Action Outcome: Not reported

Action Type: AUDCOM
Action Stat: NAFNON
Action Date: 01/25/2006
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 12/29/2005
Response Action Outcome: Not reported

Action Type: Phase IV
Action Stat: As-Built Construction report Received
Action Date: 12/29/2005
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 11/02/2005
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 03/21/2005
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 08/26/2004
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 04/21/2004
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 09/29/2003
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: IMRCD
Action Date: 02/03/2003
Response Action Outcome: Not reported

HATHAWAY BRALEY FMR (Continued) **S100351824**

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 04/06/2001
Response Action Outcome: Not reported

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 04/06/2001
Response Action Outcome: Not reported

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 04/06/2001
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 04/06/2001
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 11/29/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Transfer
Action Date: 11/29/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 11/21/1995
Response Action Outcome: Not reported

Action Type: Partial Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 11/17/1995
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 11/13/1995
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 11/21/1990
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: WAVACC
Action Date: 11/21/1990
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: WAVSIG

HATHAWAY BRALEY FMR (Continued) **S100351824**

Action Date: 11/01/1990
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/24/1990
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 10/15/1989
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: WAVREC
Action Date: 08/21/1989
Response Action Outcome: Not reported

Facility ID: 4-0016178
Primary ID: Not reported
Official City: FAIRHAVEN
Notification: 04/10/2001
Category: 72 HR
Facility Status: Response Action Outcome Not Required
Status Date: 09/12/2001
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Oil

Action:
Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 09/14/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 09/12/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 09/12/2001
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 09/12/2001
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 04/10/2001
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT

HATHAWAY BRALEY FMR (Continued) **S100351824**

Action Date: 04/10/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 04/10/2001
Response Action Outcome: Not reported

Chemical:
Chemical: #2 FUEL OIL
Quantity: 3 inches

Location:
Location Type: COMMERCIAL

Source:
Source Type: UST

Action:
Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 09/14/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 09/12/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 09/12/2001
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 09/12/2001
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 04/10/2001
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 04/10/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 04/10/2001
Response Action Outcome: Not reported

Facility ID: 4-0020656
Primary ID: 4-0000785
Official City: FAIRHAVEN

HATHAWAY BRALEY FMR (Continued) **S100351824**

Notification:	06/18/2007
Category:	120 DY
Facility Status:	Response Action Outcome Not Required
Status Date:	06/17/2008
Phase:	Not reported
Rspns Actn Outcome Class:	Not reported
Oil / Haz Material Type:	Oil and Hazardous Material

Action:

Action Type:	Tier Classification
Action Stat:	LNKVTC
Action Date:	06/17/2008
Response Action Outcome:	Not reported
Action Type:	Response Action Outcome Not Required
Action Stat:	Related to a Tier Classified Site
Action Date:	06/17/2008
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Stat:	Status Report Received
Action Date:	06/02/2008
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Stat:	Level I - Technical Screen Audit
Action Date:	11/28/2007
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Stat:	Modified, Revised, or Updated Plan Received
Action Date:	11/27/2007
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Stat:	Status Report Received
Action Date:	11/27/2007
Response Action Outcome:	Not reported
Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	10/30/2007
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Stat:	Fee Received
Action Date:	08/03/2007
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Stat:	Level I - Technical Screen Audit
Action Date:	08/02/2007
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Stat:	Written Plan Received
Action Date:	07/31/2007
Response Action Outcome:	Not reported

HATHAWAY BRALEY FMR (Continued) **S100351824**

Action Type: Release
Action Stat: REPORT
Action Date: 06/18/2007
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 06/18/2007
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Transfer
Action Date: 11/29/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 11/21/1995
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 11/13/1995
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 11/21/1990
Response Action Outcome: Not reported

Chemical:
Chemical: LEAD
Quantity: 578 milligrams per kilogram
Chemical: BENZO[A]PYRENE
Quantity: 3.25 milligrams per kilogram
Chemical: C11 THRU C22 AROMATIC HYDROCARBONS
Quantity: 803 milligrams per kilogram
Chemical: AROCLOR 1254
Quantity: 9.9 milligrams per kilogram

Location:
Location Type: Not reported

Source:
Source Type: UNKNOWN

Action:
Action Type: Tier Classification
Action Stat: LNKVTC
Action Date: 06/17/2008
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 06/17/2008
Response Action Outcome: Not reported

Action Type: Release Abatement Measure

HATHAWAY BRALEY FMR (Continued) **S100351824**

Action Stat: Status Report Received
Action Date: 06/02/2008
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Level I - Technical Screen Audit
Action Date: 11/28/2007
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 11/27/2007
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 11/27/2007
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/30/2007
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 08/03/2007
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Level I - Technical Screen Audit
Action Date: 08/02/2007
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 07/31/2007
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 06/18/2007
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 06/18/2007
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Transfer
Action Date: 11/29/2000
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 11/21/1995

HATHAWAY BRALEY FMR (Continued) **S100351824**

Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 11/13/1995
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 11/21/1990
Response Action Outcome: Not reported

Q84
South
1/2-1
0.888 mi.
4690 ft.

Relative: Higher

Actual: 22 ft.

NO LOCATION AID **LUST** **S103384037**
775 BROCK AVE **RELEASE** **N/A**
NEW BEDFORD, MA

Site 1 of 2 in cluster Q

LUST:

Facility:
Facility ID: 4-0013955
Facility Status: Release Action Outcome
Status Date: 02/05/2001
Source Type: UST
Release Town: NEW BEDFORD
Notification Date: 06/16/1998
Category: 72 HR
Associated ID: Not reported
Phase: PHASE II
Rspns Actn Outcome Class: A2
Oil Or Haz Material: Oil

Chemical:
Chemical: GASOLINE
Quantity: 170 parts per million

Location:
Location Type: COMMERCIAL

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 03/30/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 02/05/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 06/17/1999

NO LOCATION AID (Continued) **S103384037**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 06/16/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 06/16/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 08/07/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 08/07/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 08/07/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/30/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 06/16/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 06/16/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 4-0013955
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 06/16/1998

NO LOCATION AID (Continued) **S103384037**

Category: 72 HR
Facility Status: Response Action Outcome
Status Date: 02/05/2001
Phase: PHASE II
Rspns Actn Outcome Class: A2
Oil / Haz Material Type: Oil

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 03/30/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 02/05/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 06/17/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 06/16/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 06/16/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 08/07/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 08/07/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 08/07/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED

NO LOCATION AID (Continued) **S103384037**

Action Date: 06/30/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 06/16/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 06/16/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: GASOLINE
Quantity: 170 parts per million

Location:
Location Type: COMMERCIAL

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 03/30/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 02/05/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 06/17/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 06/16/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 06/16/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

NO LOCATION AID (Continued) **S103384037**

Action Stat: Completion Statement Received
Action Date: 08/07/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 08/07/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 08/07/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/30/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 06/16/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 06/16/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Q85 South 1/2-1 0.888 mi. 4690 ft. | **CUMBERLAND FARMS** | **SHWS RELEASE** | **S108034330 N/A**
775 BROOK AVE
NEW BEDFORD, MA

Site 2 of 2 in cluster Q

Relative: Higher

Actual: 22 ft.

SHWS:
Facility ID: 4-0019742
Release Town: NEW BEDFORD
Notification Date: 05/04/2006
Category: TWO HR
Associated ID: Not reported
Compliance Status: Release Action Outcome
Status Date: 07/02/2007
Phase: Not reported
Response Action Outcome Class: A1
Oil Or Haz Material: Oil

Chemical:
Chemical: GASOLINE
Quantity: 10 gallons

CUMBERLAND FARMS (Continued) **S108034330**

Location:
Location Type: COMMERCIAL

Source:
Source Type: PIPE

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 07/06/2007
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
Action Stat: RAO Statement Received
Action Date: 07/02/2007
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 Stat: REPORT
Action Date: 06/28/2007
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 Stat: Completion Statement Received
Action Date: 06/02/2007
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: C&E
Action Stat: NON
Action Date: 05/30/2007
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/06/2006
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: Release
Action Stat: REPORT
Action Date: 05/04/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Facility ID: 4-0019742
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 05/04/2006
Category: TWO HR
Facility Status: Response Action Outcome

CUMBERLAND FARMS (Continued) **S108034330**

Status Date: 07/02/2007
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil / Haz Material Type: Oil

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 07/06/2007
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
Action Stat: RAO Statement Received
Action Date: 07/02/2007
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 Stat: REPORT
Action Date: 06/28/2007
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 Stat: Completion Statement Received
Action Date: 06/02/2007
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: C&E
Action Stat: NON
Action Date: 05/30/2007
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/06/2006
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: Release
Action Stat: REPORT
Action Date: 05/04/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:
Chemical: GASOLINE
Quantity: 10 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: PIPE

CUMBERLAND FARMS (Continued) **S108034330**

Action:

Action Type:	Response Action Outcome
Action Stat:	Level I - Technical Screen Audit
Action Date:	07/06/2007
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
Action Stat:	RAO Statement Received
Action Date:	07/02/2007
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 Stat:	REPORT
Action Date:	06/28/2007
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 Stat:	Completion Statement Received
Action Date:	06/02/2007
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:	C&E
Action Stat:	NON
Action Date:	05/30/2007
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:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	06/06/2006
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:	Release
Action Stat:	REPORT
Action Date:	05/04/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

R86 **DN KELLEY & SONS SHIPYARD** **SHWS** **S101036851**
NE **32 WATER ST** **RELEASE** **N/A**
1/2-1 **FAIRHAVEN, MA 02719**
0.890 mi.
4700 ft. **Site 1 of 3 in cluster R**

Relative:
Higher

Actual:
16 ft.

SHWS:

Facility ID:	4-0017343
Release Town:	FAIRHAVEN
Notification Date:	09/13/2002
Category:	TWO HR
Associated ID:	Not reported
Compliance Status:	**Adequately Regulated**

DN KELLEY & SONS SHIPYARD (Continued) **S101036851**

Status Date: 09/13/2002
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Oil

Chemical:
Chemical: DIESEL FUEL
Quantity: 50 gallons

Location:
Location Type: COMMERCIAL
Location Type: WATERBODY

Source:
Source Type: UNKNOWN

Action:
Action Type: Response Action Outcome Not Required
Action Stat: USCG
Action Date: 09/13/2002
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 09/13/2002
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 09/13/2002
Response Action Outcome: Not reported

Release:
Facility ID: 4-0017343
Primary ID: Not reported
Official City: FAIRHAVEN
Notification: 09/13/2002
Category: TWO HR
Facility Status: ADQREG
Status Date: 09/13/2002
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Oil

Action:
Action Type: Response Action Outcome Not Required
Action Stat: USCG
Action Date: 09/13/2002
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 09/13/2002
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 09/13/2002

DN KELLEY & SONS SHIPYARD (Continued) **S101036851**

Response Action Outcome: Not reported

Chemical:
Chemical: DIESEL FUEL
Quantity: 50 gallons

Location:
Location Type: COMMERCIAL
Location Type: WATERBODY

Source:
Source Type: UNKNOWN

Action:
Action Type: Response Action Outcome Not Required
Action Stat: USCG
Action Date: 09/13/2002
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDD1A
Action Date: 09/13/2002
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 09/13/2002
Response Action Outcome: Not reported

R87 **DN KELLEY & SON** **RCRA-SQG** **1000282431**
NE **32 WATER ST** **FINDS** **MAD001407931**
1/2-1 **FAIRHAVEN, MA 02719** **LUST**
0.890 mi. **MANIFEST**
4700 ft. **Site 2 of 3 in cluster R** **RELEASE**

Relative:
Higher

Actual:
16 ft.

RCRA-SQG:
Date form received by agency: 05/08/1990
Facility name: DN KELLEY & SON
Facility address: 32 WATER ST
FAIRHAVEN, MA 02719
EPA ID: MAD001407931
Mailing address: PO BOX 191
FAIRHAVEN, MA 027190000
Contact: VICTORIA CALLAHAN
Contact address: PO BOX 191
FAIRHAVEN, MA 02719
Contact country: US
Contact telephone: (509) 999-6266
Contact email: Not reported
EPA Region: 01
Land type: Private
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

DN KELLEY & SON (Continued) **1000282431**

Owner/Operator Summary:

Owner/operator name:	DN KELLEY & SONS
Owner/operator address:	PO BOX 191 FAIRHAVEN, MA 02719
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	06/15/1993
Owner/Op end date:	Not reported

Owner/operator name:	DAVID N KELLEY II
Owner/operator address:	PO BOX 191 FAIRHAVEN, MA 02719
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	06/24/1980
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
Off-site waste receiver:	Commercial status unknown

Historical Generators:

Date form received by agency:	06/24/1980
Facility name:	DN KELLEY & SON
Classification:	Not a generator, verified

Hazardous Waste Summary:

Waste code:	D001
Waste name:	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Waste code:	D002

DN KELLEY & SON (Continued) **1000282431**

Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Waste code: F001
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, 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 LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED 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 NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED 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 NON-HALOGENATED 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 NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

DN KELLEY & SON (Continued) **1000282431**

Waste code: MA01
Waste name: WASTE OIL

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 08/06/1986
Date achieved compliance: 02/10/1987
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/15/1986
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: 08/06/1986
Date achieved compliance: 01/07/1987
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/15/1986
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: 02/23/1987
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/07/1987
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/06/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 02/10/1987
Evaluation lead agency: State

Evaluation date: 08/06/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 01/07/1987
Evaluation lead agency: State

DN KELLEY & SON (Continued) **1000282431**

FINDS:

Registry ID: 110003421413

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

LUST:

Facility:

Facility ID:	4-0000306
Facility Status:	**No Further Action (DEP Determined)**
Status Date:	07/23/1993
Source Type:	UST
Release Town:	FAIRHAVEN
Notification Date:	01/08/1987
Category:	NONE
Associated ID:	Not reported
Phase:	Not reported
Rspns Actn Outcome Class:	Not reported
Oil Or Haz Material:	Not reported

Chemical:

Chemical:	UNKNOWN
Quantity:	Not reported

Location:

Location Type:	COMMERCIAL

Source:

Source Type:	UST

Action:

Action Type:	TREGS
Action Stat:	DEPNFA
Action Date:	07/23/1993
Response Action Outcome:	Not reported
Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	01/08/1987
Response Action Outcome:	Not reported
Action Type:	Release
Action Stat:	TCTRNS
Action Date:	01/08/1987
Response Action Outcome:	Not reported

DN KELLEY & SON (Continued) **1000282431**

MANIFEST:

GEN Cert Date:	9/6/1989
Transporter Recpt Date:	9/29/2004
Number Of Containers:	1
Container Type:	NONE
Waste Code1:	MA98
Waste Code2:	D039
Waste Code3:	Not reported
Comment:	gen date approx
Fee Exempt Code:	4
TSDF Name:	United Oil Recovery Inc
TSDF ID:	RID991302407
TSDF Date:	9/29/2004
Date Imported:	9/5/2003 1:26:58 PM
Transporter 2 Name:	Not reported
Transporter 2 ID:	CTD021816889
Manifest Docket Number:	Not reported
Waste Description:	Not reported
Quantity:	Not reported
WT/Vol Units:	Not reported
Item Number:	Not reported
Transporter Name:	Not reported
Transporter EPA ID:	Not reported
GEN Cert Date:	Not reported
Transporter Recpt Date:	Not reported
Transporter 2 Recpt Date:	Not reported
TSDF Recpt Date:	Not reported
EPA ID:	Not reported
Transporter 2 ID:	Not reported

Release:

Facility ID:	4-0000306
Primary ID:	Not reported
Official City:	FAIRHAVEN
Notification:	01/08/1987
Category:	NONE
Facility Status:	DEP No Further Action
Status Date:	07/23/1993
Phase:	Not reported
Rspns Actn Outcome Class:	Not reported
Oil / Haz Material Type:	Not reported

Action:

Action Type:	TREGS
Action Stat:	DEPNFA
Action Date:	07/23/1993
Response Action Outcome:	Not reported
Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	01/08/1987
Response Action Outcome:	Not reported
Action Type:	Release
Action Stat:	TCTRNS
Action Date:	01/08/1987

DN KELLEY & SON (Continued) **1000282431**

Response Action Outcome: Not reported

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: COMMERCIAL

Source:
Source Type: UST

Action:
Action Type: TREGS
Action Stat: DEPNFA
Action Date: 07/23/1993
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/08/1987
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/08/1987
Response Action Outcome: Not reported

R88 **UNION WARF** **SHWS** **S104562789**
NE **WATER / UNION ST** **RELEASE** **N/A**
1/2-1 **FAIRHAVEN, MA 02719** **INST CONTROL**
0.890 mi.
4700 ft. **Site 3 of 3 in cluster R**

Relative:
Higher

Actual:
16 ft.

SHWS:
Facility ID: 4-0015573
Release Town: FAIRHAVEN
Notification Date: 06/22/2000
Category: 120 DY
Associated ID: Not reported
Compliance Status: **Release Action Outcome**
Status Date: 06/25/2001
Phase: PHASE V
Response Action Outcome Class: A3
Oil Or Haz Material: Oil

Chemical:
Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity: 2400 parts per billion
Chemical: C11 THRU C22 AROMATIC HYDROCARBONS
Quantity: 2400 parts per million
Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity: 5400 parts per million

Location:
Location Type: Not reported

Source:
Source Type: Not reported

UNION WARF (Continued) **S104562789**

Action:

Action Type:	AUDCOM
Action Stat:	Audit Follow-up Completion Statement Received
Action Date:	05/06/2005
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:	AUDCOM
Action Stat:	NAFNON
Action Date:	04/15/2005
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:	Activity and Use Limitation
Action Stat:	Level II - Audit Inspection
Action Date:	04/15/2005
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 Stat:	FLDRAN
Action Date:	02/12/2005
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:	Response Action Outcome
Action Stat:	Level I - Technical Screen Audit
Action Date:	04/16/2004
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 Stat:	Level I - Technical Screen Audit
Action Date:	03/07/2004
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 Stat:	Transmittal Received
Action Date:	06/25/2001
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
Action Stat:	Fee Received
Action Date:	06/25/2001
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.

UNION WARF (Continued) **S104562789**

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/25/2001
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 IV
Action Stat: Completion Statement Received
Action Date: 06/21/2001
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 III
Action Stat: Completion Statement Received
Action Date: 04/09/2001
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 V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 04/09/2001
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 II
Action Stat: Completion Statement Received
Action Date: 04/04/2001
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 II
Action Stat: Scope of Work Received
Action Date: 02/07/2001
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: RLFA
Action Stat: FOLOFF
Action Date: 11/09/2000
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: RNF
Action Stat: REPORT
Action Date: 10/17/2000
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: Release Abatement Measure

UNION WARF (Continued) **S104562789**

Action Stat: Written Plan Received
Action Date: 10/17/2000
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: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 08/08/2000
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 08/08/2000
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: Release Abatement Measure
Action Stat: Written Denial of Plan
Action Date: 08/08/2000
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: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 07/20/2000
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: RNF
Action Stat: REPORT
Action Date: 06/22/2000
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: Release
Action Stat: REPORT
Action Date: 06/22/2000
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.

Release:
Facility ID: 4-0015573
Primary ID: Not reported
Official City: FAIRHAVEN
Notification: 06/22/2000
Category: 120 DY
Facility Status: Response Action Outcome
Status Date: 06/25/2001

UNION WARF (Continued) **S104562789**

Phase: PHASE V
Rspns Actn Outcome Class: A3
Oil / Haz Material Type: Oil

Action:
Action Type: AUDCOM
Action Stat: Audit Follow-up Completion Statement Received
Action Date: 05/06/2005
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: AUDCOM
Action Stat: NAFNON
Action Date: 04/15/2005
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: Activity and Use Limitation
Action Stat: Level II - Audit Inspection
Action Date: 04/15/2005
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 Stat: FLDRAN
Action Date: 02/12/2005
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: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 04/16/2004
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 Stat: Level I - Technical Screen Audit
Action Date: 03/07/2004
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 Stat: Transmittal Received
Action Date: 06/25/2001
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
Action Stat: Fee Received
Action Date: 06/25/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

UNION WARF (Continued) **S104562789**

reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/25/2001
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 IV
Action Stat: Completion Statement Received
Action Date: 06/21/2001
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 III
Action Stat: Completion Statement Received
Action Date: 04/09/2001
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 V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 04/09/2001
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 II
Action Stat: Completion Statement Received
Action Date: 04/04/2001
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 II
Action Stat: Scope of Work Received
Action Date: 02/07/2001
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: RLFA
Action Stat: FOLOFF
Action Date: 11/09/2000
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: RNF
Action Stat: REPORT
Action Date: 10/17/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

UNION WARF (Continued) **S104562789**

been implemented.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 10/17/2000
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: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 08/08/2000
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 08/08/2000
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: Release Abatement Measure
Action Stat: Written Denial of Plan
Action Date: 08/08/2000
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: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 07/20/2000
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: RNF
Action Stat: REPORT
Action Date: 06/22/2000
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: Release
Action Stat: REPORT
Action Date: 06/22/2000
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.

Chemical:
Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS
Quantity: 2400 parts per billion
Chemical: C11 THRU C22 AROMATIC HYDROCARBONS
Quantity: 2400 parts per million
Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS

UNION WARF (Continued) **S104562789**

Quantity: 5400 parts per million

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: AUDCOM
Action Stat: Audit Follow-up Completion Statement Received
Action Date: 05/06/2005
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: AUDCOM
Action Stat: NAFNON
Action Date: 04/15/2005
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: Activity and Use Limitation
Action Stat: Level II - Audit Inspection
Action Date: 04/15/2005
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 Stat: FLDRAN
Action Date: 02/12/2005
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: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 04/16/2004
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 Stat: Level I - Technical Screen Audit
Action Date: 03/07/2004
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 Stat: Transmittal Received
Action Date: 06/25/2001
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

UNION WARF (Continued) **S104562789**

Action Stat: Fee Received
Action Date: 06/25/2001
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
Action Stat: RAO Statement Received
Action Date: 06/25/2001
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 IV
Action Stat: Completion Statement Received
Action Date: 06/21/2001
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 III
Action Stat: Completion Statement Received
Action Date: 04/09/2001
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 V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 04/09/2001
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 II
Action Stat: Completion Statement Received
Action Date: 04/04/2001
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 II
Action Stat: Scope of Work Received
Action Date: 02/07/2001
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: RLFA
Action Stat: FOLOFF
Action Date: 11/09/2000
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: RNF
Action Stat: REPORT

UNION WARF (Continued) **S104562789**

Action Date: 10/17/2000
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: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 10/17/2000
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: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 08/08/2000
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 08/08/2000
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: Release Abatement Measure
Action Stat: Written Denial of Plan
Action Date: 08/08/2000
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: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 07/20/2000
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: RNF
Action Stat: REPORT
Action Date: 06/22/2000
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: Release
Action Stat: REPORT
Action Date: 06/22/2000
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.

INST CONTROL:
Release Tracking Number: 4-0015573

UNION WARF (Continued) **S104562789**

Action Type: AUL
Action Stat: SNAUDI
Action Date: 04/15/2005
Response Action Outcome: A3

Release Tracking Number: 4-0015573
Action Type: AUL
Action Stat: RECPT
Action Date: 06/25/2001
Response Action Outcome: A3

Release Tracking Number: 4-0015573
Action Type: AUL
Action Stat: TSAUD
Action Date: 03/07/2004
Response Action Outcome: A3

89
South
1/2-1
0.898 mi.
4742 ft.

NO LOCATION AID **SHWS** **S104232400**
127 WEST RODNEY FRENCH BLVD **RELEASE** **N/A**
NEW BEDFORD, MA

Relative:
Equal

Actual:
0 ft.

SHWS:
Facility ID: 4-0012163
Release Town: NEW BEDFORD
Notification Date: 05/06/1996
Category: TWO HR
Associated ID: Not reported
Compliance Status: **Release Action Outcome**
Status Date: 07/08/1996
Phase: Not reported
Response Action Outcome Class: A1
Oil Or Haz Material: Oil

Chemical:
Chemical: DIESEL FUEL
Quantity: 15 gallons

Location:
Location Type: ROADWAY

Source:
Source Type: SADDLETNK

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/08/1996
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 Stat: REPORT
Action Date: 07/08/1996
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: Notice of Responsibility
Action Stat: ISSUED

NO LOCATION AID (Continued) **S104232400**

Action Date: 05/17/1996
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
Action Stat: REPORT
Action Date: 05/06/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Facility ID: 4-0000675
Release Town: NEW BEDFORD
Notification Date: 04/15/1989
Category: NONE
Associated ID: Not reported
Compliance Status: Release Action Outcome
Status Date: 06/05/1996
Phase: PHASE II
Response Action Outcome Class: A2
Oil Or Haz Material: Not reported

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 06/05/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/05/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: TCTRNS
Action Date: 04/15/1989
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 4-0000675
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 04/15/1989
Category: NONE
Facility Status: Response Action Outcome

NO LOCATION AID (Continued) **S104232400**

Status Date: 06/05/1996
Phase: PHASE II
Rspns Actn Outcome Class: A2
Oil / Haz Material Type: Not reported

Action:
Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 06/05/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/05/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: TCTRNS
Action Date: 04/15/1989
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 06/05/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/05/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: TCTRNS
Action Date: 04/15/1989
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Facility ID: 4-0012163
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 05/06/1996
Category: TWO HR

NO LOCATION AID (Continued) **S104232400**

Facility Status: Response Action Outcome
Status Date: 07/08/1996
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil / Haz Material Type: Oil

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/08/1996
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 Stat: REPORT
Action Date: 07/08/1996
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 05/17/1996
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
Action Stat: REPORT
Action Date: 05/06/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:
Chemical: DIESEL FUEL
Quantity: 15 gallons

Location:
Location Type: ROADWAY

Source:
Source Type: SADDLETNK

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/08/1996
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 Stat: REPORT
Action Date: 07/08/1996
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 05/17/1996
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) **S104232400**

Action Type: Release
Action Stat: REPORT
Action Date: 05/06/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

S90
SW
1/2-1
0.903 mi.
4766 ft.

NO LOCATION AID **SHWS** **S105043623**
1337 COVE RD **RELEASE** **N/A**
NEW BEDFORD, MA

Site 1 of 2 in cluster S

Relative:
Equal

Actual:
0 ft.

SHWS:
Facility ID: 4-0016221
Release Town: NEW BEDFORD
Notification Date: 04/24/2001
Category: 120 DY
Associated ID: Not reported
Compliance Status: **Release Action Outcome**
Status Date: 01/20/2009
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Hazardous Material

Chemical:
Chemical: NAPTHALENE
Quantity: 8.7 parts per million
Chemical: LEAD
Quantity: 980 parts per million
Chemical: LEAD
Quantity: .053 parts per million

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: AUDCOM
Action Stat: Audit Follow-up Completion Statement Received
Action Date: 01/20/2009
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: Revised Statement or Transmittal Received
Action Date: 01/20/2009
Response Action Outcome: Not reported

Action Type: AUDCOM
Action Stat: NAFNON
Action Date: 11/21/2008
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: Action Audited
Action Date: 11/21/2008
Response Action Outcome: Not reported

NO LOCATION AID (Continued) **S105043623**

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 11/05/2008
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 07/24/2008
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 07/10/2008
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/09/2008
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 01/16/2002
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 01/15/2002
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/05/2001
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 04/24/2001
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 04/24/2001
Response Action Outcome: Not reported

Release:
Facility ID: 4-0016221
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 04/24/2001
Category: 120 DY
Facility Status: Response Action Outcome
Status Date: 01/20/2009
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Hazardous Material

NO LOCATION AID (Continued) **S105043623**

Action:

Action Type:	AUDCOM
Action Stat:	Audit Follow-up Completion Statement Received
Action Date:	01/20/2009
Response Action Outcome:	Not reported

Action Type:	Response Action Outcome
Action Stat:	Revised Statement or Transmittal Received
Action Date:	01/20/2009
Response Action Outcome:	Not reported

Action Type:	AUDCOM
Action Stat:	NAFNON
Action Date:	11/21/2008
Response Action Outcome:	Not reported

Action Type:	Response Action Outcome
Action Stat:	Action Audited
Action Date:	11/21/2008
Response Action Outcome:	Not reported

Action Type:	Response Action Outcome
Action Stat:	Level I - Technical Screen Audit
Action Date:	11/05/2008
Response Action Outcome:	Not reported

Action Type:	Response Action Outcome
Action Stat:	Level I - Technical Screen Audit
Action Date:	07/24/2008
Response Action Outcome:	Not reported

Action Type:	Response Action Outcome
Action Stat:	Fee Received
Action Date:	07/10/2008
Response Action Outcome:	Not reported

Action Type:	Response Action Outcome
Action Stat:	RAO Statement Received
Action Date:	07/09/2008
Response Action Outcome:	Not reported

Action Type:	Response Action Outcome
Action Stat:	Fee Received
Action Date:	01/16/2002
Response Action Outcome:	Not reported

Action Type:	Response Action Outcome
Action Stat:	RAO Statement Received
Action Date:	01/15/2002
Response Action Outcome:	Not reported

Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	07/05/2001
Response Action Outcome:	Not reported

Action Type:	Release

NO LOCATION AID (Continued) **S105043623**

Action Stat: REPORT
Action Date: 04/24/2001
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 04/24/2001
Response Action Outcome: Not reported

Chemical:
Chemical: NAPTHALENE
Quantity: 8.7 parts per million
Chemical: LEAD
Quantity: 980 parts per million
Chemical: LEAD
Quantity: .053 parts per million

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: AUDCOM
Action Stat: Audit Follow-up Completion Statement Received
Action Date: 01/20/2009
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: Revised Statement or Transmittal Received
Action Date: 01/20/2009
Response Action Outcome: Not reported

Action Type: AUDCOM
Action Stat: NAFNON
Action Date: 11/21/2008
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: Action Audited
Action Date: 11/21/2008
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 11/05/2008
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 07/24/2008
Response Action Outcome: Not reported

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 07/10/2008
Response Action Outcome: Not reported

NO LOCATION AID (Continued) **S105043623**

Action Type:	Response Action Outcome
Action Stat:	RAO Statement Received
Action Date:	07/09/2008
Response Action Outcome:	Not reported

Action Type:	Response Action Outcome
Action Stat:	Fee Received
Action Date:	01/16/2002
Response Action Outcome:	Not reported

Action Type:	Response Action Outcome
Action Stat:	RAO Statement Received
Action Date:	01/15/2002
Response Action Outcome:	Not reported

Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	07/05/2001
Response Action Outcome:	Not reported

Action Type:	Release
Action Stat:	REPORT
Action Date:	04/24/2001
Response Action Outcome:	Not reported

Action Type:	RNF
Action Stat:	REPORT
Action Date:	04/24/2001
Response Action Outcome:	Not reported

S91 **NO LOCATION AID** **LUST** **S104179998**
SW **1339 COVE RD** **RELEASE** **N/A**
1/2-1 **NEW BEDFORD, MA**
0.905 mi.
4778 ft. **Site 2 of 2 in cluster S**

Relative:
Equal

Actual:
0 ft.

LUST:

Facility:

Facility ID:	4-0014963
Facility Status:	**Release Action Outcome**
Status Date:	01/03/2000
Source Type:	UST
Release Town:	NEW BEDFORD
Notification Date:	08/26/1999
Category:	72 HR
Associated ID:	Not reported
Phase:	Not reported
Rspns Actn Outcome Class:	A2
Oil Or Haz Material:	Oil

Chemical:

Chemical:	#6 FUEL OIL
Quantity:	166 parts per million

Location:

Location Type:	COMMERCIAL

NO LOCATION AID (Continued) **S104179998**

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 06/21/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 01/03/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 10/21/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/19/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 10/18/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 10/18/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/07/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 09/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

NO LOCATION AID (Continued) **S104179998**

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 08/26/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 08/26/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 4-0014963
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 08/26/1999
Category: 72 HR
Facility Status: Response Action Outcome
Status Date: 01/03/2000
Phase: Not reported
Rspns Actn Outcome Class: A2
Oil / Haz Material Type: Oil

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 06/21/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 01/03/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 10/21/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/19/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 10/18/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF

NO LOCATION AID (Continued) **S104179998**

Action Stat: REPORT
Action Date: 10/18/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/07/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 09/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 08/26/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 08/26/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: #6 FUEL OIL
Quantity: 166 parts per million

Location:
Location Type: COMMERCIAL

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 06/21/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 01/03/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

NO LOCATION AID (Continued) **S104179998**

Action Type: RLFA
Action Stat: FOLFLD
Action Date: 10/21/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/19/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 10/18/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 10/18/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/07/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 09/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 08/26/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 08/26/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

T92 NNW 1/2-1 0.924 mi. 4879 ft. | **BELL ATLANTIC CENTRAL OFFICE**
390 ACHUSNET AVE
NEW BEDFORD, MA 02740 | **SHWS RELEASE** | **S103250201 N/A**

Site 1 of 2 in cluster T

Relative: Higher

Actual: 35 ft.

SHWS:

Facility ID:	4-0013912
Release Town:	NEW BEDFORD
Notification Date:	05/20/1998
Category:	120 DY
Associated ID:	Not reported
Compliance Status:	**Release Action Outcome**
Status Date:	02/26/1999
Phase:	Not reported
Response Action Outcome Class:	A2
Oil Or Haz Material:	Oil

Chemical:

Chemical:	TPH
Quantity:	240 parts per million

Location:

Location Type:	Not reported

Source:

Source Type:	Not reported

Action:

Action Type:	Response Action Outcome
Action Stat:	Level I - Technical Screen Audit
Action Date:	01/04/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome
Action Stat:	Fee Received
Action Date:	03/11/1999
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Abatement Measure
Action Stat:	Completion Statement Received
Action Date:	02/26/1999
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome
Action Stat:	RAO Statement Received
Action Date:	02/26/1999
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Abatement Measure
Action Stat:	Status Report Received
Action Date:	01/20/1999
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Notice of Responsibility
Action Stat:	ISSUED

BELL ATLANTIC CENTRAL OFFICE (Continued) **S103250201**

Action Date: 07/31/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 06/26/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 06/23/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 05/20/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 05/20/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 4-0013912
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 05/20/1998
Category: 120 DY
Facility Status: Response Action Outcome
Status Date: 02/26/1999
Phase: Not reported
Rspns Actn Outcome Class: A2
Oil / Haz Material Type: Oil

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 01/04/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 03/11/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 02/26/1999

BELL ATLANTIC CENTRAL OFFICE (Continued) **S103250201**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 02/26/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 01/20/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/31/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 06/26/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 06/23/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 05/20/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 05/20/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: TPH
Quantity: 240 parts per million

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit

BELL ATLANTIC CENTRAL OFFICE (Continued) **S103250201**

Action Date: 01/04/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 03/11/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 02/26/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 02/26/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 01/20/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/31/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 06/26/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 06/23/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 05/20/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 05/20/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

T93 NNW 1/2-1 0.932 mi. 4922 ft. | **ADJACENT TO ELM ST GARAGE & RTE 18**
ELM ST PARCEL 19
NEW BEDFORD, MA | **SHWS RELEASE** | **S103546575 N/A**

Site 2 of 2 in cluster T

Relative: Higher

Actual: 28 ft.

SHWS:

Facility ID:	4-0010559
Release Town:	NEW BEDFORD
Notification Date:	10/19/1994
Category:	120 DY
Associated ID:	Not reported
Compliance Status:	**Release Action Outcome**
Status Date:	05/24/1995
Phase:	Not reported
Response Action Outcome Class:	A1
Oil Or Haz Material:	Hazardous Material

Chemical:

Chemical:	LEAD
Quantity:	10 parts per million
Chemical:	PAH
Quantity:	82 parts per million

Location:

Location Type:	COMMERCIAL

Source:

Source Type:	HISTUSE

Action:

Action Type:	Response Action Outcome
Action Stat:	Fee Received
Action Date:	05/24/1995
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
Action Stat:	RAO Statement Received
Action Date:	05/24/1995
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 Stat:	Completion Statement Received
Action Date:	05/24/1995
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:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	03/06/1995
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 Stat:	Written Approval of Plan
Action Date:	03/06/1995
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

ADJACENT TO ELM ST GARAGE & RTE 18 (Continued) **S103546575**

Action Type: RNF
Action Stat: REPORT
Action Date: 10/19/1994
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
Action Stat: REPORT
Action Date: 10/19/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Facility ID: 4-0010559
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 10/19/1994
Category: 120 DY
Facility Status: Response Action Outcome
Status Date: 05/24/1995
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil / Haz Material Type: Hazardous Material

Action:
Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 05/24/1995
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
Action Stat: RAO Statement Received
Action Date: 05/24/1995
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 Stat: Completion Statement Received
Action Date: 05/24/1995
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 03/06/1995
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 Stat: Written Approval of Plan
Action Date: 03/06/1995
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: RNF

ADJACENT TO ELM ST GARAGE & RTE 18 (Continued) **S103546575**

Action Stat: REPORT
Action Date: 10/19/1994
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
Action Stat: REPORT
Action Date: 10/19/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:
Chemical: LEAD
Quantity: 10 parts per million
Chemical: PAH
Quantity: 82 parts per million

Location:
Location Type: COMMERCIAL

Source:
Source Type: HISTUSE

Action:
Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 05/24/1995
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
Action Stat: RAO Statement Received
Action Date: 05/24/1995
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 Stat: Completion Statement Received
Action Date: 05/24/1995
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 03/06/1995
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 Stat: Written Approval of Plan
Action Date: 03/06/1995
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: RNF
Action Stat: REPORT
Action Date: 10/19/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced

ADJACENT TO ELM ST GARAGE & RTE 18 (Continued) **S103546575**

to background or a threat of release has been eliminated.

Action Type: Release
Action Stat: REPORT
Action Date: 10/19/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

94
NW
1/2-1
0.944 mi.
4986 ft.

NO LOCATION AID
281 UNION ST
NEW BEDFORD, MA

LAST RELEASE **S104232398**
N/A

Relative:
Higher

Actual:
88 ft.

LAST:
Facility ID: 4-0011886
Source Type: AST
Release Town: NEW BEDFORD
Notification Date: 01/13/1996
Category: TWO HR
Associated ID: Not reported
Facility Status: Release Action Outcome
Status Date: 01/16/1997
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil Or Haz Material: Oil

Chemical:
Chemical: HEATING OIL
Quantity: 150 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: AST

Action:
Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 01/17/1997
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 Stat: Completion Statement Received
Action Date: 01/16/1997
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 Stat: Status Report Received
Action Date: 01/16/1997
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 Stat: REPORT
Action Date: 01/16/1997

NO LOCATION AID (Continued) **S104232398**

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
Action Stat: RAO Statement Received
Action Date: 01/16/1997
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/19/1996
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 Stat: FOLOFF
Action Date: 01/17/1996
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
Action Stat: REPORT
Action Date: 01/13/1996
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: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 01/13/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Facility ID: 4-0011886
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 01/13/1996
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 01/16/1997
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil / Haz Material Type: Oil

Action:
Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 01/17/1997
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 Stat: Completion Statement Received
Action Date: 01/16/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced

NO LOCATION AID (Continued) **S104232398**

to background or a threat of release has been eliminated.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 01/16/1997
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 Stat: REPORT
Action Date: 01/16/1997
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
Action Stat: RAO Statement Received
Action Date: 01/16/1997
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/19/1996
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 Stat: FOLOFF
Action Date: 01/17/1996
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
Action Stat: REPORT
Action Date: 01/13/1996
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: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 01/13/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:
Chemical: HEATING OIL
Quantity: 150 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: AST

Action:
Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 01/17/1997

NO LOCATION AID (Continued) **S104232398**

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 Stat: Completion Statement Received
Action Date: 01/16/1997
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 Stat: Status Report Received
Action Date: 01/16/1997
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 Stat: REPORT
Action Date: 01/16/1997
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
Action Stat: RAO Statement Received
Action Date: 01/16/1997
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 01/19/1996
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 Stat: FOLOFF
Action Date: 01/17/1996
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
Action Stat: REPORT
Action Date: 01/13/1996
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: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 01/13/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

95 NNW 1/2-1 0.972 mi. 5130 ft. | **NO LOCATION AID**
1 FISH ISLAND RD
NEW BEDFORD, MA | **SHWS RELEASE** | **S103546628**
N/A

Relative: Equal

Actual: 0 ft.

SHWS:

Facility ID:	4-0014200
Release Town:	NEW BEDFORD
Notification Date:	10/16/1998
Category:	72 HR
Associated ID:	Not reported
Compliance Status:	**Release Action Outcome**
Status Date:	10/16/2008
Phase:	PHASE III
Response Action Outcome Class:	A2
Oil Or Haz Material:	Oil

Chemical:

Chemical:	OIL
Quantity:	100 parts per million

Location:

Location Type:	COMMERCIAL

Source:

Source Type:	Not reported

Action:

Action Type:	Response Action Outcome
Action Stat:	Level I - Technical Screen Audit
Action Date:	12/26/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome
Action Stat:	RAO Statement Received
Action Date:	10/16/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase II
Action Stat:	Completion Statement Received
Action Date:	10/16/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Tier Classification
Action Stat:	Tier 2 Extension
Action Date:	01/18/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	C&E
Action Stat:	INTLET
Action Date:	11/15/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	C&E
Action Stat:	NOEC

NO LOCATION AID (Continued) **S103546628**

Action Date: 08/09/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: NON
Action Date: 02/21/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: NON
Action Date: 12/17/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 08/27/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 03/03/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 03/03/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 03/03/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 02/07/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 04/24/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 04/17/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

NO LOCATION AID (Continued) **S103546628**

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 10/22/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 10/22/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 10/22/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
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 Stat: REPORT
Action Date: 11/27/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 11/18/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/23/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 10/16/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 10/16/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/16/1998

NO LOCATION AID (Continued) **S103546628**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Facility ID:	4-0014200
Primary ID:	Not reported
Official City:	NEW BEDFORD
Notification:	10/16/1998
Category:	72 HR
Facility Status:	Response Action Outcome
Status Date:	10/16/2008
Phase:	PHASE III
Rspns Actn Outcome Class:	A2
Oil / Haz Material Type:	Oil

Action:

Action Type:	Response Action Outcome
Action Stat:	Level I - Technical Screen Audit
Action Date:	12/26/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome
Action Stat:	RAO Statement Received
Action Date:	10/16/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase II
Action Stat:	Completion Statement Received
Action Date:	10/16/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Tier Classification
Action Stat:	Tier 2 Extension
Action Date:	01/18/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	C&E
Action Stat:	INTLET
Action Date:	11/15/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	C&E
Action Stat:	NOEC
Action Date:	08/09/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	C&E
Action Stat:	NON
Action Date:	02/21/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been

NO LOCATION AID (Continued) **S103546628**

reduced to background.

Action Type: C&E
Action Stat: NON
Action Date: 12/17/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 08/27/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 03/03/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 03/03/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 03/03/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 02/07/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 04/24/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 04/17/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 10/22/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification

NO LOCATION AID (Continued) **S103546628**

Action Stat: Transmittal Received
Action Date: 10/22/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 10/22/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
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 Stat: REPORT
Action Date: 11/27/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 11/18/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/23/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 10/16/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 10/16/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/16/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: OIL
Quantity: 100 parts per million

NO LOCATION AID (Continued) **S103546628**

Location:
Location Type: COMMERCIAL

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 12/26/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 10/16/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 10/16/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 01/18/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: INTLET
Action Date: 11/15/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: NOEC
Action Date: 08/09/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: NON
Action Date: 02/21/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: NON
Action Date: 12/17/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 08/27/2004

NO LOCATION AID (Continued) **S103546628**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 03/03/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 03/03/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Notice of Delay in meeting Response Action Deadline
Action Date: 03/03/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 02/07/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 04/24/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 04/17/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 10/22/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 10/22/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 10/22/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

NO LOCATION AID (Continued) **S103546628**

Action Type: Immediate Response
Action Stat: Written Plan Received
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 Stat: REPORT
Action Date: 11/27/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 11/18/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/23/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 10/16/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 10/16/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/16/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

U96 **ROOSEVELT JR HIGH SCHOOL** **LUST** **S103812419**
SSE **ROOSEVELT AVE** **RELEASE** **N/A**
1/2-1 **NEW BEDFORD, MA**
0.995 mi.
5253 ft. **Site 1 of 2 in cluster U**

Relative: Higher

Actual: 19 ft.

LUST:

Facility:
Facility ID: 4-0012020
Facility Status: **Release Action Outcome**
Status Date: 06/11/1996
Source Type: UST
Release Town: NEW BEDFORD
Notification Date: 03/15/1996

ROOSEVELT JR HIGH SCHOOL (Continued) **S103812419**

Category: TWO HR
Associated ID: Not reported
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil Or Haz Material: Oil

Chemical:
Chemical: #2 FUEL OIL
Quantity: 65 gallons

Location:
Location Type: MUNICIPAL

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/11/1996
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: Immediate Response
Action Stat: Completion Statement Received
Action Date: 06/11/1996
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 Stat: REPORT
Action Date: 06/11/1996
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 03/26/1996
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: RLFA
Action Stat: FOLOFF
Action Date: 03/15/1996
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 Stat: FOLFLD
Action Date: 03/15/1996
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 Stat: FLDD1A
Action Date: 03/15/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

ROOSEVELT JR HIGH SCHOOL (Continued) **S103812419**

Action Type: Release
Action Stat: REPORT
Action Date: 03/15/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Facility ID: 4-0012020
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 03/15/1996
Category: TWO HR
Facility Status: Response Action Outcome
Status Date: 06/11/1996
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil / Haz Material Type: Oil

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/11/1996
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: Immediate Response
Action Stat: Completion Statement Received
Action Date: 06/11/1996
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 Stat: REPORT
Action Date: 06/11/1996
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 03/26/1996
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: RLFA
Action Stat: FOLOFF
Action Date: 03/15/1996
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 Stat: FOLFLD
Action Date: 03/15/1996
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

ROOSEVELT JR HIGH SCHOOL (Continued) **S103812419**

Action Stat: FLDD1A
Action Date: 03/15/1996
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
Action Stat: REPORT
Action Date: 03/15/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:
Chemical: #2 FUEL OIL
Quantity: 65 gallons

Location:
Location Type: MUNICIPAL

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/11/1996
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: Immediate Response
Action Stat: Completion Statement Received
Action Date: 06/11/1996
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 Stat: REPORT
Action Date: 06/11/1996
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 03/26/1996
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: RLFA
Action Stat: FOLOFF
Action Date: 03/15/1996
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 Stat: FOLFLD
Action Date: 03/15/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

ROOSEVELT JR HIGH SCHOOL (Continued) **S103812419**

Action Type:	RLFA
Action Stat:	FLDD1A
Action Date:	03/15/1996
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
Action Stat:	REPORT
Action Date:	03/15/1996
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

97
NW
> 1
1.017 mi.
5372 ft.

NO LOCATION AID **SHWS** **S106954142**
71 MECHANICS LN **RELEASE** **N/A**
NEW BEDFORD, MA

Relative:
Higher

Actual:
82 ft.

SHWS:

Facility ID:	4-0019002
Release Town:	NEW BEDFORD
Notification Date:	04/01/2005
Category:	72 HR
Associated ID:	Not reported
Compliance Status:	**Downgradient Property Status**
Status Date:	03/31/2006
Phase:	Not reported
Response Action Outcome Class:	Not reported
Oil Or Haz Material:	Oil

Chemical:

Chemical:	OIL
Quantity:	Not reported

Location:

Location Type:	COMMERCIAL
Location Type:	RESIDNTIAL

Source:

Source Type:	UNKNOWN

Action:

Action Type:	Immediate Response
Action Stat:	LNKVIC
Action Date:	02/13/2008
Response Action Outcome:	Not reported

Action Type:	Immediate Response
Action Stat:	Completion Statement Received
Action Date:	02/13/2008
Response Action Outcome:	Not reported

Action Type:	RLFA
Action Stat:	FOLOFF
Action Date:	11/19/2007
Response Action Outcome:	Not reported

Action Type:	Immediate Response
Action Stat:	Level I - Technical Screen Audit

NO LOCATION AID (Continued) **S106954142**

Action Date: 08/22/2007
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 08/20/2007
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 01/26/2007
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 01/25/2007
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 06/16/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/16/2006
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Stat: Fee Received
Action Date: 03/31/2006
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Stat: Transmittal Received
Action Date: 03/31/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 02/07/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 02/03/2006
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 01/27/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 01/27/2006
Response Action Outcome: Not reported

NO LOCATION AID (Continued) **S106954142**

Action Type:	Immediate Response
Action Stat:	Modified, Revised, or Updated Plan Received
Action Date:	01/12/2006
Response Action Outcome:	Not reported

Action Type:	Immediate Response
Action Stat:	Level I - Technical Screen Audit
Action Date:	09/23/2005
Response Action Outcome:	Not reported

Action Type:	Immediate Response
Action Stat:	Status Report Received
Action Date:	09/21/2005
Response Action Outcome:	Not reported

Action Type:	RNF
Action Stat:	REPORT
Action Date:	09/21/2005
Response Action Outcome:	Not reported

Action Type:	Immediate Response
Action Stat:	Written Plan Received
Action Date:	09/21/2005
Response Action Outcome:	Not reported

Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	04/26/2005
Response Action Outcome:	Not reported

Action Type:	RLFA
Action Stat:	FOLOFF
Action Date:	04/12/2005
Response Action Outcome:	Not reported

Action Type:	Release
Action Stat:	REPORT
Action Date:	04/01/2005
Response Action Outcome:	Not reported

Action Type:	Immediate Response
Action Stat:	IRA Assessment Only
Action Date:	04/01/2005
Response Action Outcome:	Not reported

Release:

Facility ID:	4-0019002
Primary ID:	Not reported
Official City:	NEW BEDFORD
Notification:	04/01/2005
Category:	72 HR
Facility Status:	Downgradient Property Status
Status Date:	03/31/2006
Phase:	Not reported
Rspns Actn Outcome Class:	Not reported
Oil / Haz Material Type:	Oil

NO LOCATION AID (Continued) **S106954142**

Action:

Action Type:	Immediate Response
Action Stat:	LNKVIC
Action Date:	02/13/2008
Response Action Outcome:	Not reported

Action Type:	Immediate Response
Action Stat:	Completion Statement Received
Action Date:	02/13/2008
Response Action Outcome:	Not reported

Action Type:	RLFA
Action Stat:	FOLOFF
Action Date:	11/19/2007
Response Action Outcome:	Not reported

Action Type:	Immediate Response
Action Stat:	Level I - Technical Screen Audit
Action Date:	08/22/2007
Response Action Outcome:	Not reported

Action Type:	Immediate Response
Action Stat:	Status Report Received
Action Date:	08/20/2007
Response Action Outcome:	Not reported

Action Type:	Immediate Response
Action Stat:	Level I - Technical Screen Audit
Action Date:	01/26/2007
Response Action Outcome:	Not reported

Action Type:	Immediate Response
Action Stat:	Status Report Received
Action Date:	01/25/2007
Response Action Outcome:	Not reported

Action Type:	Immediate Response
Action Stat:	Modified, Revised, or Updated Plan Received
Action Date:	06/16/2006
Response Action Outcome:	Not reported

Action Type:	Immediate Response
Action Stat:	Status Report Received
Action Date:	06/16/2006
Response Action Outcome:	Not reported

Action Type:	Downgradient Property Status
Action Stat:	Fee Received
Action Date:	03/31/2006
Response Action Outcome:	Not reported

Action Type:	Downgradient Property Status
Action Stat:	Transmittal Received
Action Date:	03/31/2006
Response Action Outcome:	Not reported

Action Type:	Immediate Response

NO LOCATION AID (Continued) **S106954142**

Action Stat: Level I - Technical Screen Audit
Action Date: 02/07/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 02/03/2006
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 01/27/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 01/27/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 01/12/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 09/23/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 09/21/2005
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 09/21/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 09/21/2005
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 04/26/2005
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 04/12/2005
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 04/01/2005

NO LOCATION AID (Continued) **S106954142**

Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 04/01/2005
Response Action Outcome: Not reported

Chemical:
Chemical: OIL
Quantity: Not reported

Location:
Location Type: COMMERCIAL
Location Type: RESIDNTIAL

Source:
Source Type: UNKNOWN

Action:
Action Type: Immediate Response
Action Stat: LNKVIC
Action Date: 02/13/2008
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 02/13/2008
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 11/19/2007
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 08/22/2007
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 08/20/2007
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 01/26/2007
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 01/25/2007
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 06/16/2006
Response Action Outcome: Not reported

NO LOCATION AID (Continued) **S106954142**

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/16/2006
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Stat: Fee Received
Action Date: 03/31/2006
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Stat: Transmittal Received
Action Date: 03/31/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 02/07/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 02/03/2006
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 01/27/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 01/27/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 01/12/2006
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 09/23/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 09/21/2005
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 09/21/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Plan Received

NO LOCATION AID (Continued) **S106954142**

Action Date: 09/21/2005
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 04/26/2005
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 04/12/2005
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 04/01/2005
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 04/01/2005
Response Action Outcome: Not reported

98
SW
> 1
1.018 mi.
5373 ft.

Relative:
Equal

Actual:
0 ft.

CJ GALLEY PILOT HOUSE **LUST** **S100830585**
1397-1405 COVE RD **RELEASE** **N/A**
NEW BEDFORD, MA 02740

LUST:

Facility:
Facility ID: 4-0001215
Facility Status: **Release Action Outcome**
Status Date: 10/01/2004
Source Type: UST
Release Town: NEW BEDFORD
Notification Date: 07/15/1993
Category: NONE
Associated ID: Not reported
Phase: Not reported
Rspns Actn Outcome Class: B1
Oil Or Haz Material: Not reported

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: Not reported

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: Fee Not Required, Fee Credited
Action Date: 09/13/2005
Response Action Outcome: Remedial actions have not been conducted because a level of No

CJ GALLEY PILOT HOUSE (Continued) **S100830585**

Significant Risk exists.

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 10/04/2004
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 10/01/2004
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: C&E
Action Stat: NON
Action Date: 01/05/2004
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/13/1999
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release
Action Stat: TCTRNS
Action Date: 07/15/1993
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Release:
Facility ID: 4-0001215
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 07/15/1993
Category: NONE
Facility Status: Response Action Outcome
Status Date: 10/01/2004
Phase: Not reported
Rspns Actn Outcome Class: B1
Oil / Haz Material Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Fee Not Required, Fee Credited
Action Date: 09/13/2005
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 10/04/2004
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

CJ GALLEY PILOT HOUSE (Continued) **S100830585**

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 10/01/2004
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: C&E
Action Stat: NON
Action Date: 01/05/2004
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/13/1999
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release
Action Stat: TCTRNS
Action Date: 07/15/1993
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: Not reported

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: Fee Not Required, Fee Credited
Action Date: 09/13/2005
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 10/04/2004
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 10/01/2004
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: C&E
Action Stat: NON
Action Date: 01/05/2004
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

CJ GALLEY PILOT HOUSE (Continued) **S100830585**

Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	12/13/1999
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type:	Release
Action Stat:	TCTRNS
Action Date:	07/15/1993
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

U99 **ROOSEVELT JUNIOR HIGH SCHOOL** **SHWS** **S104482712**
South **120 DENNIS ST** **RELEASE** **N/A**
> 1 **NEW BEDFORD, MA 02744**
1.022 mi.
5394 ft. **Site 2 of 2 in cluster U**

Relative:
Higher

Actual:
27 ft.

SHWS:

Facility ID:	4-0015174
Release Town:	NEW BEDFORD
Notification Date:	11/30/1999
Category:	120 DY
Associated ID:	Not reported
Compliance Status:	**Release Action Outcome**
Status Date:	11/14/2001
Phase:	PHASE II
Response Action Outcome Class:	A1
Oil Or Haz Material:	Hazardous Material

Chemical:

Chemical:	LEAD
Quantity:	601 parts per million

Location:

Location Type:	Not reported

Source:

Source Type:	Not reported

Action:

Action Type:	Response Action Outcome
Action Stat:	Level I - Technical Screen Audit
Action Date:	06/10/2004
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:	TREGS
Action Stat:	LSPFA
Action Date:	11/14/2001
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 Abatement Measure
Action Stat:	Completion Statement Received
Action Date:	11/14/2001
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

ROOSEVELT JUNIOR HIGH SCHOOL (Continued) **S104482712**

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 11/14/2001
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 Abatement Measure
Action Stat: Status Report Received
Action Date: 07/03/2001
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 Abatement Measure
Action Stat: Status Report Received
Action Date: 12/27/2000
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: Phase II
Action Stat: Scope of Work Received
Action Date: 12/04/2000
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: Phase I
Action Stat: Completion Statement Received
Action Date: 12/04/2000
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: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 12/04/2000
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: Tier Classification
Action Stat: Transmittal Received
Action Date: 12/04/2000
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 Abatement Measure
Action Stat: Status Report Received
Action Date: 07/05/2000
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 Abatement Measure
Action Stat: Fee Received
Action Date: 02/25/2000
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 Abatement Measure
Action Stat: Written Plan Received
Action Date: 02/25/2000

ROOSEVELT JUNIOR HIGH SCHOOL (Continued) **S104482712**

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 Stat: FOLOFF
Action Date: 01/03/2000
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: RLFA
Action Stat: FOLOFF
Action Date: 12/28/1999
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/14/1999
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
Action Stat: REPORT
Action Date: 11/30/1999
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: RNF
Action Stat: REPORT
Action Date: 11/30/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Facility ID: 4-0015174
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 11/30/1999
Category: 120 DY
Facility Status: Response Action Outcome
Status Date: 11/14/2001
Phase: PHASE II
Rspns Actn Outcome Class: A1
Oil / Haz Material Type: Hazardous Material

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 06/10/2004
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: TREGS
Action Stat: LSPFA
Action Date: 11/14/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced

ROOSEVELT JUNIOR HIGH SCHOOL (Continued) **S104482712**

to background or a threat of release has been eliminated.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 11/14/2001
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
Action Stat: RAO Statement Received
Action Date: 11/14/2001
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 Abatement Measure
Action Stat: Status Report Received
Action Date: 07/03/2001
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 Abatement Measure
Action Stat: Status Report Received
Action Date: 12/27/2000
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: Phase II
Action Stat: Scope of Work Received
Action Date: 12/04/2000
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: Phase I
Action Stat: Completion Statement Received
Action Date: 12/04/2000
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: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 12/04/2000
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: Tier Classification
Action Stat: Transmittal Received
Action Date: 12/04/2000
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 Abatement Measure
Action Stat: Status Report Received
Action Date: 07/05/2000
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 Abatement Measure

ROOSEVELT JUNIOR HIGH SCHOOL (Continued) **S104482712**

Action Stat: Fee Received
Action Date: 02/25/2000
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 Abatement Measure
Action Stat: Written Plan Received
Action Date: 02/25/2000
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: RLFA
Action Stat: FOLOFF
Action Date: 01/03/2000
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: RLFA
Action Stat: FOLOFF
Action Date: 12/28/1999
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/14/1999
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
Action Stat: REPORT
Action Date: 11/30/1999
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: RNF
Action Stat: REPORT
Action Date: 11/30/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:
Chemical: LEAD
Quantity: 601 parts per million

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 06/10/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

ROOSEVELT JUNIOR HIGH SCHOOL (Continued) **S104482712**

Action Type: TREGS
Action Stat: LSPFA
Action Date: 11/14/2001
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 Abatement Measure
Action Stat: Completion Statement Received
Action Date: 11/14/2001
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
Action Stat: RAO Statement Received
Action Date: 11/14/2001
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 Abatement Measure
Action Stat: Status Report Received
Action Date: 07/03/2001
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 Abatement Measure
Action Stat: Status Report Received
Action Date: 12/27/2000
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: Phase II
Action Stat: Scope of Work Received
Action Date: 12/04/2000
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: Phase I
Action Stat: Completion Statement Received
Action Date: 12/04/2000
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: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 12/04/2000
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: Tier Classification
Action Stat: Transmittal Received
Action Date: 12/04/2000
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 Abatement Measure
Action Stat: Status Report Received
Action Date: 07/05/2000

ROOSEVELT JUNIOR HIGH SCHOOL (Continued) **S104482712**

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 Abatement Measure
Action Stat: Fee Received
Action Date: 02/25/2000
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 Abatement Measure
Action Stat: Written Plan Received
Action Date: 02/25/2000
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: RLFA
Action Stat: FOLOFF
Action Date: 01/03/2000
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: RLFA
Action Stat: FOLOFF
Action Date: 12/28/1999
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/14/1999
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
Action Stat: REPORT
Action Date: 11/30/1999
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: RNF
Action Stat: REPORT
Action Date: 11/30/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

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100 NE > 1 1.026 mi. 5418 ft.

NO LOCATION AID
88 GREEN ST
FAIRHAVEN, MA 02719

LAST RELEASE **S102088734 N/A**

Relative: Higher

Actual: 19 ft.

LAST:
Facility ID: 4-0012044
Source Type: AST
Release Town: FAIRHAVEN
Notification Date: 03/27/1996
Category: TWO HR

NO LOCATION AID (Continued) **S102088734**

Associated ID: Not reported
Facility Status: Release Action Outcome
Status Date: 06/14/1996
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil Or Haz Material: Oil

Chemical:
Chemical: OIL
Quantity: 20 gallons

Location:
Location Type: RESIDNTIAL

Source:
Source Type: AST

Action:
Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/14/1996
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
Action Stat: RAO Statement Received
Action Date: 06/14/1996
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 Stat: REPORT
Action Date: 06/14/1996
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: Immediate Response
Action Stat: Completion Statement Received
Action Date: 06/14/1996
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 Stat: FOLOFF
Action Date: 04/04/1996
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 04/01/1996
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 Stat: FOLFLD
Action Date: 03/28/1996
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) **S102088734**

Action Type:	RLFA
Action Stat:	FOLOFF
Action Date:	03/27/1996
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
Action Stat:	REPORT
Action Date:	03/27/1996
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:

Facility ID:	4-0012044
Primary ID:	Not reported
Official City:	FAIRHAVEN
Notification:	03/27/1996
Category:	TWO HR
Facility Status:	Response Action Outcome
Status Date:	06/14/1996
Phase:	Not reported
Rspns Actn Outcome Class:	A1
Oil / Haz Material Type:	Oil

Action:

Action Type:	Immediate Response
Action Stat:	Status Report Received
Action Date:	06/14/1996
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
Action Stat:	RAO Statement Received
Action Date:	06/14/1996
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 Stat:	REPORT
Action Date:	06/14/1996
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:	Immediate Response
Action Stat:	Completion Statement Received
Action Date:	06/14/1996
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 Stat:	FOLOFF
Action Date:	04/04/1996
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:	Notice of Responsibility

NO LOCATION AID (Continued) **S102088734**

Action Stat: ISSUED
Action Date: 04/01/1996
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 Stat: FOLFLD
Action Date: 03/28/1996
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 Stat: FOLOFF
Action Date: 03/27/1996
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
Action Stat: REPORT
Action Date: 03/27/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:
Chemical: OIL
Quantity: 20 gallons

Location:
Location Type: RESIDNTIAL

Source:
Source Type: AST

Action:
Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/14/1996
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
Action Stat: RAO Statement Received
Action Date: 06/14/1996
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 Stat: REPORT
Action Date: 06/14/1996
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: Immediate Response
Action Stat: Completion Statement Received
Action Date: 06/14/1996
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) **S102088734**

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 04/04/1996
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 04/01/1996
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 Stat: FOLFLD
Action Date: 03/28/1996
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 Stat: FOLOFF
Action Date: 03/27/1996
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
Action Stat: REPORT
Action Date: 03/27/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

V101 **SHWS** **S104774427**
NNW **725 PLEASANT ST** **LUST** **N/A**
> 1 **NEW BEDFORD, MA** **RELEASE**
1.054 mi. **LEAD**
5564 ft. **Site 1 of 2 in cluster V**

Relative: Higher

Actual: 59 ft.

SHWS:
Facility ID: 4-0015758
Release Town: NEW BEDFORD
Notification Date: 09/14/2000
Category: 72 HR
Associated ID: Not reported
Compliance Status: Release Action Outcome
Status Date: 01/16/2001
Phase: Not reported
Response Action Outcome Class: A1
Oil Or Haz Material: Oil

Chemical:
Chemical: FUEL OIL
Quantity: 128 parts per million

Location:
Location Type: RESIDNTIAL

Source:
Source Type: UST
Source Type: PIPE

(Continued) **S104774427**

Action:

Action Type:	AUDCOM
Action Stat:	NAFNVD
Action Date:	06/04/2002
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 Stat:	FOLOFF
Action Date:	05/09/2002
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 Stat:	FLDRAN
Action Date:	04/26/2002
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:	AUDCOM
Action Stat:	NOA
Action Date:	03/12/2002
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
Action Stat:	Level I - Technical Screen Audit
Action Date:	03/20/2001
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
Action Stat:	RAO Statement Received
Action Date:	01/16/2001
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 Stat:	REPORT
Action Date:	11/14/2000
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:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	10/06/2000
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
Action Stat:	REPORT
Action Date:	09/14/2000
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 Stat:	Oral Approval of Plan

(Continued) **S104774427**

Action Date: 09/14/2000
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:
Facility ID: 4-0015758
Facility Status: Release Action Outcome
Status Date: 01/16/2001
Source Type: UST
Release Town: NEW BEDFORD
Notification Date: 09/14/2000
Category: 72 HR
Associated ID: Not reported
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil Or Haz Material: Oil

Chemical:
Chemical: FUEL OIL
Quantity: 128 parts per million

Location:
Location Type: RESIDNTIAL

Source:
Source Type: UST
Source Type: PIPE

Action:
Action Type: AUDCOM
Action Stat: NAFNVD
Action Date: 06/04/2002
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 Stat: FOLOFF
Action Date: 05/09/2002
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 Stat: FLDRAN
Action Date: 04/26/2002
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: AUDCOM
Action Stat: NOA
Action Date: 03/12/2002
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
Action Stat: Level I - Technical Screen Audit
Action Date: 03/20/2001

(Continued) **S104774427**

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
Action Stat: RAO Statement Received
Action Date: 01/16/2001
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 Stat: REPORT
Action Date: 11/14/2000
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/06/2000
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
Action Stat: REPORT
Action Date: 09/14/2000
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 Stat: Oral Approval of Plan
Action Date: 09/14/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Facility ID: 4-0015758
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 09/14/2000
Category: 72 HR
Facility Status: Response Action Outcome
Status Date: 01/16/2001
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil / Haz Material Type: Oil

Action:
Action Type: AUDCOM
Action Stat: NAFNVD
Action Date: 06/04/2002
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 Stat: FOLOFF
Action Date: 05/09/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced

(Continued) **S104774427**

to background or a threat of release has been eliminated.

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 04/26/2002
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: AUDCOM
Action Stat: NOA
Action Date: 03/12/2002
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
Action Stat: Level I - Technical Screen Audit
Action Date: 03/20/2001
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
Action Stat: RAO Statement Received
Action Date: 01/16/2001
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 Stat: REPORT
Action Date: 11/14/2000
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/06/2000
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
Action Stat: REPORT
Action Date: 09/14/2000
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 Stat: Oral Approval of Plan
Action Date: 09/14/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:
Chemical: FUEL OIL
Quantity: 128 parts per million

Location:
Location Type: RESIDNTIAL

(Continued) **S104774427**

Source:
Source Type: UST
Source Type: PIPE

Action:
Action Type: AUDCOM
Action Stat: NAFNVD
Action Date: 06/04/2002
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 Stat: FOLOFF
Action Date: 05/09/2002
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 Stat: FLDRAN
Action Date: 04/26/2002
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: AUDCOM
Action Stat: NOA
Action Date: 03/12/2002
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
Action Stat: Level I - Technical Screen Audit
Action Date: 03/20/2001
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
Action Stat: RAO Statement Received
Action Date: 01/16/2001
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 Stat: REPORT
Action Date: 11/14/2000
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/06/2000
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
Action Stat: REPORT
Action Date: 09/14/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced

(Continued) **S104774427**

to background or a threat of release has been eliminated.

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 09/14/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

LEAD:
Community: New Bedford
Unit: 604
Inspector Name: Ray Freuden
Inspector License Number: 1105
Activity Type: INSPECT
Activity Date: 5/24/2001
Start Work Date: Not reported
Activity Descriptions: Comprehensive Initial Inspection
Outcomes: Hazards Found

Community: New Bedford
Unit: M-1
Inspector Name: Ray Freuden
Inspector License Number: 1105
Activity Type: INSPECT
Activity Date: 5/24/2001
Start Work Date: Not reported
Activity Descriptions: Comprehensive Initial Inspection
Outcomes: Hazards Found

V102 **NO LOCATION AID** **SHWS** **S107517267**
NNW **800 PLEASANT ST** **RELEASE** **N/A**
> 1 **NEW BEDFORD, MA**
1.060 mi.
5596 ft. **Site 2 of 2 in cluster V**

Relative:
Higher

Actual:
60 ft.

SHWS:
Facility ID: 4-0019457
Release Town: NEW BEDFORD
Notification Date: 11/08/2005
Category: 120 DY
Associated ID: Not reported
Compliance Status: **Release Action Outcome**
Status Date: 01/26/2009
Phase: PHASE II
Response Action Outcome Class: B1
Oil Or Haz Material: Oil

Chemical:
Chemical: C5 THRU C8 ALIPHATIC HYDROCARBONS
Quantity: 245 parts per million
Chemical: C5 THRU C8 ALIPHATIC HYDROCARBONS
Quantity: 1.89 parts per million

Location:
Location Type: Not reported

Source:
Source Type: Not reported

NO LOCATION AID (Continued) **S107517267**

Action:

Action Type:	Response Action Outcome
Action Stat:	Level I - Technical Screen Audit
Action Date:	03/11/2009
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type:	Response Action Outcome
Action Stat:	RAO Statement Received
Action Date:	01/26/2009
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type:	RLFA
Action Stat:	FLDRUN
Action Date:	10/27/2008
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type:	Phase I
Action Stat:	Completion Statement Received
Action Date:	07/22/2008
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type:	Tier Classification
Action Stat:	Transmittal Received
Action Date:	07/22/2008
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type:	Tier Classification
Action Stat:	Tier 2 Classification
Action Date:	07/22/2008
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type:	RLFA
Action Stat:	FLDRUN
Action Date:	01/18/2008
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type:	Release
Action Stat:	REPORT
Action Date:	11/08/2005
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type:	RNF
Action Stat:	REPORT
Action Date:	11/08/2005
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.

NO LOCATION AID (Continued) **S107517267**

Release:

Facility ID:	4-0019457
Primary ID:	Not reported
Official City:	NEW BEDFORD
Notification:	11/08/2005
Category:	120 DY
Facility Status:	Response Action Outcome
Status Date:	01/26/2009
Phase:	PHASE II
Rspns Actn Outcome Class:	B1
Oil / Haz Material Type:	Oil

Action:

Action Type:	Response Action Outcome
Action Stat:	Level I - Technical Screen Audit
Action Date:	03/11/2009
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.
Action Type:	Response Action Outcome
Action Stat:	RAO Statement Received
Action Date:	01/26/2009
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.
Action Type:	RLFA
Action Stat:	FLDRUN
Action Date:	10/27/2008
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.
Action Type:	Phase I
Action Stat:	Completion Statement Received
Action Date:	07/22/2008
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.
Action Type:	Tier Classification
Action Stat:	Transmittal Received
Action Date:	07/22/2008
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.
Action Type:	Tier Classification
Action Stat:	Tier 2 Classification
Action Date:	07/22/2008
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.
Action Type:	RLFA
Action Stat:	FLDRUN
Action Date:	01/18/2008
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.
Action Type:	Release
Action Stat:	REPORT

NO LOCATION AID (Continued) **S107517267**

Action Date: 11/08/2005
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF
Action Stat: REPORT
Action Date: 11/08/2005
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Chemical:
Chemical: C5 THRU C8 ALIPHATIC HYDROCARBONS
Quantity: 245 parts per million
Chemical: C5 THRU C8 ALIPHATIC HYDROCARBONS
Quantity: 1.89 parts per million

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 03/11/2009
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 01/26/2009
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 10/27/2008
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 07/22/2008
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 07/22/2008
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 07/22/2008
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

NO LOCATION AID (Continued) **S107517267**

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 01/18/2008
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release
Action Stat: REPORT
Action Date: 11/08/2005
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF
Action Stat: REPORT
Action Date: 11/08/2005
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

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103 NNE > 1 1.064 mi. 5619 ft. | **CUMBERLAND FARMS** | **LUST RELEASE** | **S102088257 N/A**
68 MAIN ST
FAIRHAVEN, MA 02719

Relative: Higher

Actual: 22 ft.

LUST:

Facility:
Facility ID: 4-0010994
Facility Status: Release Action Outcome
Status Date: 10/16/1995
Source Type: UST
Release Town: FAIRHAVEN
Notification Date: 12/19/1994
Category: 72 HR
Associated ID: Not reported
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil Or Haz Material: Oil

Chemical:
Chemical: GASOLINE
Quantity: 114 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 10/16/1995
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
Action Stat: RAO Statement Received
Action Date: 10/16/1995

CUMBERLAND FARMS (Continued) **S102088257**

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 Stat: Status Report Received
Action Date: 12/27/1994
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: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 12/27/1994
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/27/1994
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
Action Stat: REPORT
Action Date: 12/19/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Facility:
Facility ID: 4-0013376
Facility Status: Release Action Outcome
Status Date: 01/03/2009
Source Type: UST
Release Town: FAIRHAVEN
Notification Date: 09/22/1997
Category: 72 HR
Associated ID: Not reported
Phase: Not reported
Rspns Actn Outcome Class: A2
Oil Or Haz Material: Oil

Chemical:
Chemical: GASOLINE
Quantity: 190 parts per million

Location:
Location Type: COMMERCIAL

Source:
Source Type: UST

Action:
Action Type: RLFA
Action Stat: FLDRUN
Action Date: 12/10/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome

CUMBERLAND FARMS (Continued) **S102088257**

Action Stat: Level I - Technical Screen Audit
Action Date: 07/01/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 01/03/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Completion Statement Received
Action Date: 01/02/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Action, Status, or AUL Terminated
Action Date: 11/20/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 06/16/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: RMRINT
Action Date: 06/16/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: RMRINT
Action Date: 12/07/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 12/07/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 05/16/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: RMRINT
Action Date: 05/16/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

CUMBERLAND FARMS (Continued) **S102088257**

reduced to background.

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 11/17/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: RMRINT
Action Date: 11/17/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 05/26/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 11/10/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM
Action Stat: NAFNVD
Action Date: 09/20/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Level II - Audit Inspection
Action Date: 09/20/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 08/26/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 05/25/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 11/29/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V

CUMBERLAND FARMS (Continued) **S102088257**

Action Stat: IMRCD
Action Date: 05/14/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 11/25/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 05/30/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 05/30/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 11/27/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 11/27/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 05/17/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 12/12/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 12/12/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 09/29/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

CUMBERLAND FARMS (Continued) **S102088257**

reduced to background.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 09/29/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 03/01/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 09/25/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 09/25/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 09/25/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 06/15/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/15/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 11/28/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 10/02/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility

CUMBERLAND FARMS (Continued) **S102088257**

Action Stat: ISSUED
Action Date: 09/24/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 09/22/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 09/22/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 4-0010994
Primary ID: Not reported
Official City: FAIRHAVEN
Notification: 12/19/1994
Category: 72 HR
Facility Status: Response Action Outcome
Status Date: 10/16/1995
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil / Haz Material Type: Oil

Action:
Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 10/16/1995
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
Action Stat: RAO Statement Received
Action Date: 10/16/1995
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 Stat: Status Report Received
Action Date: 12/27/1994
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: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 12/27/1994
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: Notice of Responsibility
Action Stat: ISSUED

CUMBERLAND FARMS (Continued) **S102088257**

Action Date: 12/27/1994
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
Action Stat: REPORT
Action Date: 12/19/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:
Chemical: GASOLINE
Quantity: 114 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: Fee Received
Action Date: 10/16/1995
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
Action Stat: RAO Statement Received
Action Date: 10/16/1995
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 Stat: Status Report Received
Action Date: 12/27/1994
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: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 12/27/1994
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/27/1994
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
Action Stat: REPORT
Action Date: 12/19/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

CUMBERLAND FARMS (Continued) **S102088257**

Facility ID:	4-0013376
Primary ID:	Not reported
Official City:	FAIRHAVEN
Notification:	09/22/1997
Category:	72 HR
Facility Status:	Response Action Outcome
Status Date:	01/03/2009
Phase:	Not reported
Rspns Actn Outcome Class:	A2
Oil / Haz Material Type:	Oil

Action:

Action Type:	RLFA
Action Stat:	FLDRUN
Action Date:	12/10/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome
Action Stat:	Level I - Technical Screen Audit
Action Date:	07/01/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome
Action Stat:	RAO Statement Received
Action Date:	01/03/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase V
Action Stat:	Completion Statement Received
Action Date:	01/02/2009
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase V
Action Stat:	Action, Status, or AUL Terminated
Action Date:	11/20/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase V
Action Stat:	Remedy Operation Status Submittal Received
Action Date:	06/16/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase V
Action Stat:	RMRINT
Action Date:	06/16/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase V
Action Stat:	RMRINT
Action Date:	12/07/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been

CUMBERLAND FARMS (Continued) **S102088257**

reduced to background.

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 12/07/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 05/16/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: RMRINT
Action Date: 05/16/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 11/17/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: RMRINT
Action Date: 11/17/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 05/26/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 11/10/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM
Action Stat: NAFNVD
Action Date: 09/20/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Level II - Audit Inspection
Action Date: 09/20/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA

CUMBERLAND FARMS (Continued) **S102088257**

Action Stat: FLDRUN
Action Date: 08/26/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 05/25/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 11/29/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 05/14/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 11/25/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 05/30/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 05/30/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 11/27/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 11/27/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 05/17/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

CUMBERLAND FARMS (Continued) **S102088257**

reduced to background.

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 12/12/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 12/12/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 09/29/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 09/29/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 03/01/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 09/25/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 09/25/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 09/25/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 06/15/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

CUMBERLAND FARMS (Continued) **S102088257**

Action Stat: Status Report Received
Action Date: 06/15/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 11/28/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 10/02/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 09/24/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 09/22/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 09/22/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: GASOLINE
Quantity: 190 parts per million

Location:
Location Type: COMMERCIAL

Source:
Source Type: UST

Action:
Action Type: RLFA
Action Stat: FLDRUN
Action Date: 12/10/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 07/01/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

CUMBERLAND FARMS (Continued) **S102088257**

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 01/03/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Completion Statement Received
Action Date: 01/02/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Action, Status, or AUL Terminated
Action Date: 11/20/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 06/16/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: RMRINT
Action Date: 06/16/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: RMRINT
Action Date: 12/07/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 12/07/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 05/16/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: RMRINT
Action Date: 05/16/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 11/17/2006

CUMBERLAND FARMS (Continued) **S102088257**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: RMRINT
Action Date: 11/17/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 05/26/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 11/10/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM
Action Stat: NAFNVD
Action Date: 09/20/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Level II - Audit Inspection
Action Date: 09/20/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 08/26/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 05/25/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 11/29/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 05/14/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

CUMBERLAND FARMS (Continued) **S102088257**

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 11/25/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 05/30/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 05/30/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 11/27/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 11/27/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 05/17/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 12/12/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 12/12/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 09/29/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 09/29/2000

CUMBERLAND FARMS (Continued) **S102088257**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 03/01/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 09/25/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 09/25/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 09/25/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 06/15/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/15/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 11/28/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 10/02/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 09/24/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

CUMBERLAND FARMS (Continued) **S102088257**

Action Type:	Release
Action Stat:	REPORT
Action Date:	09/22/1997
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	RLFA
Action Stat:	FOLOFF
Action Date:	09/22/1997
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

---

104 West > 1 1.070 mi. 5652 ft.

Relative: Higher

Actual: 65 ft.

ST LUKES HOSPITAL
101 PAGE STREET
NEW BEDFORD, MA 02740

RCRA-SQG **1000292893**
FINDS **MAD075704932**
SHWS
MANIFEST
RELEASE
SPILLS
AIRS
FINANCIAL ASSURANCE

RCRA-SQG:

Date form received by agency:	10/02/2007
Facility name:	ST LUKES HOSPITAL
Facility address:	101 PAGE ST NEW BEDFORD, MA 02740
EPA ID:	MAD075704932
Contact:	ANTONIO PACHECO
Contact address:	101 PAGE ST NEW BEDFORD, MA 027400000
Contact country:	US
Contact telephone:	(508) 961-5140
Contact email:	Not reported
EPA Region:	01
Land type:	Private
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	SOUTHCOAST HOSPITALS GROUP
Owner/operator address:	101 PAGE ST NEW BEDFORD, MA 02740
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	06/09/1996
Owner/Op end date:	Not reported

Owner/operator name:	SOUTHCOAST HOSPITALS GROUP
Owner/operator address:	101 PAGE ST NEW BEDFORD, MA 02740

ST LUKES HOSPITAL (Continued) **1000292893**

Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 06/09/1996
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
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 08/06/1980
Facility name: ST LUKES HOSPITAL
Classification: Small Quantity Generator

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

ST LUKES HOSPITAL (Continued) **1000292893**

Waste code: D004
Waste name: ARSENIC

Waste code: D008
Waste name: LEAD

Waste code: D009
Waste name: MERCURY

Waste code: D011
Waste name: SILVER

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED 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 NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED 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: MA01
Waste name: WASTE OIL

Waste code: MA95
Waste name: UNIVERSAL WASTE

Waste code: MA99
Waste name: NON-HAZARDOUS WASTE TO BE USED ONLY FOR NON-HW SHIPPED USING HW MANIFEST

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 08/16/2006
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/10/1997
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110002383769

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

ST LUKES HOSPITAL (Continued) **1000292893**

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.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

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

SHWS:

Facility ID:	4-0013989
Release Town:	NEW BEDFORD
Notification Date:	06/26/1998
Category:	TWO HR
Associated ID:	Not reported
Compliance Status:	**Release Action Outcome**
Status Date:	10/28/1998
Phase:	Not reported
Response Action Outcome Class:	A1
Oil Or Haz Material:	Hazardous Material

Chemical:

Chemical:	FREON 12
Quantity:	Not reported

Location:

Location Type:	RESIDNTIAL
Location Type:	COMMERCIAL

Source:

Source Type:	Not reported

Action:

Action Type:	Response Action Outcome
Action Stat:	RAO Statement Received
Action Date:	10/28/1998
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 Stat:	REPORT
Action Date:	10/28/1998
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

ST LUKES HOSPITAL (Continued) **1000292893**

Action Type: Release
Action Stat: RETRAC
Action Date: 07/27/1998
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/10/1998
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: Release
Action Stat: REPORT
Action Date: 06/26/1998
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: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 06/26/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

MANIFEST:
GEN Cert Date: 8/6/2008
Transporter Recpt Date: 8/6/2008
Number Of Containers: 2
Container Type: R004MA99
Waste Code1: NONE
Waste Code2: T04
Waste Code3: Not reported
Comment: gen date approx
Fee Exempt Code: Not reported
TSDF Name: NORTHLAND ENVIRONMENTAL, INC
TSDF ID: RIP000005381
TSDF Date: 8/6/2008
Date Imported: 9/8/1994
Transporter 2 Name: Not reported
Transporter 2 ID: Not reported
Manifest Docket Number: Not reported
Waste Description: Not reported
Quantity: Not reported
WT/Vol Units: Not reported
Item Number: Not reported
Transporter Name: Not reported
Transporter EPA ID: Not reported
GEN Cert Date: Not reported
Transporter Recpt Date: Not reported
Transporter 2 Recpt Date: Not reported
TSDF Recpt Date: Not reported
EPA ID: Not reported
Transporter 2 ID: Not reported

ST LUKES HOSPITAL (Continued) **1000292893**

Release:

Facility ID:	4-0013989
Primary ID:	Not reported
Official City:	NEW BEDFORD
Notification:	06/26/1998
Category:	TWO HR
Facility Status:	Response Action Outcome
Status Date:	10/28/1998
Phase:	Not reported
Rspns Actn Outcome Class:	A1
Oil / Haz Material Type:	Hazardous Material

Action:

Action Type:	Response Action Outcome
Action Stat:	RAO Statement Received
Action Date:	10/28/1998
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 Stat:	REPORT
Action Date:	10/28/1998
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:	Release
Action Stat:	RETRAC
Action Date:	07/27/1998
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:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	07/10/1998
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:	Release
Action Stat:	REPORT
Action Date:	06/26/1998
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:	Immediate Response
Action Stat:	IRA Assessment Only
Action Date:	06/26/1998
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:

Chemical:	FREON 12
Quantity:	Not reported

Location:

Location Type:	RESIDNTIAL
Location Type:	COMMERCIAL

ST LUKES HOSPITAL (Continued) **1000292893**

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 10/28/1998
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 Stat: REPORT
Action Date: 10/28/1998
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: Release
Action Stat: RETRAC
Action Date: 07/27/1998
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: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/10/1998
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: Release
Action Stat: REPORT
Action Date: 06/26/1998
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: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 06/26/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

MA Spills:

Facility ID:	0000	Spill ID:	S92-0766
Staff Lead:	BRENNAN, S	Date Entered:	19930922
Last Entered:	19930922	First Response:	19921023
Spill Date:	Not reported	Spill Time:	Not reported
Report Date:	19921023	Report Time:	09:00AM
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:	101-250	Qty Actual:	UNKNOWN
Qty Reported:	----------	Qty Actual:	----------
CAS No:	Not reported	PCB Lev (ppm):	NONE
Source:	U.S.T.	Other Source:	Not reported
Incident:	OTHER RELEASE >	Other Incdnt:	UNKNOWN
Cleanup Type:	---	Contractor:	NOT USED

ST LUKES HOSPITAL (Continued) **1000292893**

Referral:	NO	LUST Elig:	NO
Report Prep:	Not reported	Category:	Not reported
Notifier:	MIKE DEROSA/WEB ENG ASSOC		
Notif Tel:	Not reported		
Days/Close:	0		

Facility ID:	0000	Spill ID:	S92-0821
Staff Lead:	BRENNAN, S	Date Entered:	19930922
Last Entered:	19930922	First Response:	19921113
Spill Date:	19921113	Spill Time:	12:05PM
Report Date:	19921113	Report Time:	12:15PM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	VIRGIN	Contam Soil:	Not reported
Env Impact:	SOIL	Other Impact:	Not reported
Material:	DIESEL FUEL	Other Material:	Not reported
Qty Reported:	----------	Qty Actual:	----------
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:	Not reported
Notifier:	MIKE DEROSA/WEB ENG		
Notif Tel:	Not reported		
Days/Close:	0		

Facility ID:	0000	Spill ID:	S92-0825
Staff Lead:	BRENNAN, S	Date Entered:	19930922
Last Entered:	19930922	First Response:	19921113
Spill Date:	19921113	Spill Time:	12:15PM
Report Date:	19921113	Report Time:	12:35PM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	VIRGIN	Contam Soil:	Not reported
Env Impact:	SOIL	Other Impact:	Not reported
Material:	DIESEL FUEL	Other Material:	Not reported
Qty Reported:	----------	Qty Actual:	----------
Qty Reported:	----------	Qty Actual:	----------
CAS No:	Not reported	PCB Lev (ppm):	NONE
Source:	U.S.T.	Other Source:	Not reported
Incident:	OTHER RELEASE >	Other Incdnt:	CLOSURE
Cleanup Type:	---	Contractor:	NOT USED
Referral:	NO	LUST Elig:	NO
Report Prep:	Not reported	Category:	Not reported
Notifier:	STEVE RUMBA/WEB ENG		
Notif Tel:	Not reported		
Days/Close:	0		

AIRS:

Facility Status:	APPROV
Permit Code:	AQ09
Permit Name:	Permit Restrictions/Restricted Emission Status
DEP Region:	SE
Application Tracking Number:	207031
Date Closed:	3/2/2000
DEP Region Number:	54318
Applicant Name:	SOUTHCOAST HOSPITAL GROUP

ST LUKES HOSPITAL (Continued) **1000292893**

Applicant Address: 101 PAGE ST
Applicant City,St,Zip: NEW BEDFORD, MA 027413000
Applicant Telephone: 5089971515

FINASS2:
Facility Id: 22694
Description: Hospital
Work Phone: (508) 961-5151
Financial Resp: Commercial,

W105 NNE > 1 1.074 mi. 5669 ft. **PARK MOTORS** **LUST RELEASE** **S100831026 N/A**
67 MIDDLE ST
FAIRHAVEN, MA 02719

Site 1 of 4 in cluster W

Relative: Higher

Actual: 22 ft.

LUST:

Facility:
Facility ID: 4-0000337
Facility Status: **Release Action Outcome**
Status Date: 09/15/1997
Source Type: UST
Release Town: FAIRHAVEN
Notification Date: 07/03/1986
Category: NONE
Associated ID: Not reported
Phase: PHASE II
Rspns Actn Outcome Class: A2
Oil Or Haz Material: Not reported

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: COMMERCIAL

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 09/15/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/09/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 08/08/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

PARK MOTORS (Continued) **S100831026**

Action Type: TREGS
Action Stat: LSPFA
Action Date: 08/08/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/08/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/03/1986
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: TCTRNS
Action Date: 07/03/1986
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 4-0000337
Primary ID: Not reported
Official City: FAIRHAVEN
Notification: 07/03/1986
Category: NONE
Facility Status: Response Action Outcome
Status Date: 09/15/1997
Phase: PHASE II
Rspns Actn Outcome Class: A2
Oil / Haz Material Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 09/15/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/09/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 08/08/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS

PARK MOTORS (Continued) **S100831026**

Action Stat: LSPFA
Action Date: 08/08/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/08/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/03/1986
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: TCTRNS
Action Date: 07/03/1986
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: COMMERCIAL

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 09/15/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/09/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 08/08/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: LSPFA
Action Date: 08/08/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

PARK MOTORS (Continued) **S100831026**

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/08/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 07/03/1986
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: TCTRNS
Action Date: 07/03/1986
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

W106 **NO LOCATION AID** **SHWS** **S106776009**
NNE **67-69 MIDDLE ST** **RELEASE** **N/A**
> 1 **FAIRHAVEN, MA 02719**
1.074 mi.
5669 ft. **Site 2 of 4 in cluster W**

Relative:
Higher

Actual:
22 ft.

SHWS:
Facility ID: 4-0018738
Release Town: FAIRHAVEN
Notification Date: 10/21/2004
Category: 120 DY
Associated ID: 4-0018738
Compliance 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: 09/12/2008
Phase: PHASE II
Response Action Outcome Class: Not reported
Oil Or Haz Material: Hazardous Material

Chemical:
Chemical: ARSENIC
Quantity: 66 parts per million
Chemical: LEAD GASOLINE
Quantity: 24600 parts per million

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Tier Classification
Action Stat: Level I - Technical Screen Audit
Action Date: 01/09/2009
Response Action Outcome: Not reported

NO LOCATION AID (Continued) **S106776009**

Action Type: Phase I
Action Stat: Level I - Technical Screen Audit
Action Date: 01/09/2009
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 09/12/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 09/12/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVTC
Action Date: 09/12/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVTC
Action Date: 09/11/2008
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 02/14/2008
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 11/13/2007
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 07/24/2007
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 04/30/2007
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Level I - Technical Screen Audit
Action Date: 10/19/2006
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 10/16/2006
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Level I - Technical Screen Audit

NO LOCATION AID (Continued) **S106776009**

Action Date: 05/15/2006
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 05/01/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 11/01/2005
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 10/27/2005
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 10/27/2005
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 10/27/2005
Response Action Outcome: Not reported

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 10/27/2005
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 10/27/2005
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 10/27/2005
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 04/27/2005
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 04/21/2005
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 12/22/2004
Response Action Outcome: Not reported

NO LOCATION AID (Continued) **S106776009**

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 12/20/2004
Response Action Outcome: Not reported

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 12/20/2004
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/10/2004
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 10/21/2004
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 10/21/2004
Response Action Outcome: Not reported

Release:
Facility ID: 4-0018738
Primary ID: 4-0018738
Official City: FAIRHAVEN
Notification: 10/21/2004
Category: 120 DY
Facility Status: TIERII
Status Date: 09/12/2008
Phase: PHASE II
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Hazardous Material

Action:
Action Type: Tier Classification
Action Stat: Level I - Technical Screen Audit
Action Date: 01/09/2009
Response Action Outcome: Not reported

Action Type: Phase I
Action Stat: Level I - Technical Screen Audit
Action Date: 01/09/2009
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 09/12/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 09/12/2008

NO LOCATION AID (Continued) **S106776009**

Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVTC
Action Date: 09/12/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVTC
Action Date: 09/11/2008
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 02/14/2008
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 11/13/2007
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 07/24/2007
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 04/30/2007
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Level I - Technical Screen Audit
Action Date: 10/19/2006
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 10/16/2006
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Level I - Technical Screen Audit
Action Date: 05/15/2006
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 05/01/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 11/01/2005
Response Action Outcome: Not reported

NO LOCATION AID (Continued) **S106776009**

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 10/27/2005
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 10/27/2005
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 10/27/2005
Response Action Outcome: Not reported

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 10/27/2005
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 10/27/2005
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 10/27/2005
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 04/27/2005
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 04/21/2005
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 12/22/2004
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 12/20/2004
Response Action Outcome: Not reported

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 12/20/2004
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED

NO LOCATION AID (Continued) **S106776009**

Action Date: 12/10/2004
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 10/21/2004
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 10/21/2004
Response Action Outcome: Not reported

Chemical:
Chemical: ARSENIC
Quantity: 66 parts per million
Chemical: LEAD GASOLINE
Quantity: 24600 parts per million

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Tier Classification
Action Stat: Level I - Technical Screen Audit
Action Date: 01/09/2009
Response Action Outcome: Not reported

Action Type: Phase I
Action Stat: Level I - Technical Screen Audit
Action Date: 01/09/2009
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 09/12/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 09/12/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVTC
Action Date: 09/12/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVTC
Action Date: 09/11/2008
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received

NO LOCATION AID (Continued) **S106776009**

Action Date: 02/14/2008
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 11/13/2007
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 07/24/2007
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 04/30/2007
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Level I - Technical Screen Audit
Action Date: 10/19/2006
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 10/16/2006
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Level I - Technical Screen Audit
Action Date: 05/15/2006
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 05/01/2006
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 11/01/2005
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 10/27/2005
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 10/27/2005
Response Action Outcome: Not reported

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 10/27/2005
Response Action Outcome: Not reported

NO LOCATION AID (Continued) **S106776009**

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 10/27/2005
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 10/27/2005
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 10/27/2005
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 04/27/2005
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 04/21/2005
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 12/22/2004
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 12/20/2004
Response Action Outcome: Not reported

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 12/20/2004
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 12/10/2004
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 10/21/2004
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 10/21/2004
Response Action Outcome: Not reported

W107 NNE > 1 1.074 mi. 5669 ft. | **FORMER PARK MOTORS 67-69 MIDDLE ST FAIRHAVEN, MA 02719** | **SHWS RELEASE** | **S108858879 N/A**

Site 3 of 4 in cluster W

Relative: Higher

Actual: 22 ft.

SHWS:

Facility ID:	4-0020775
Release Town:	FAIRHAVEN
Notification Date:	09/10/2007
Category:	120 DY
Associated ID:	4-0018738
Compliance Status:	**Response Action Outcome Not Required**
Status Date:	09/12/2008
Phase:	Not reported
Response Action Outcome Class:	Not reported
Oil Or Haz Material:	Oil

Chemical:

Chemical:	TPH
Quantity:	4380 milligrams per kilogram

Location:

Location Type:	Not reported

Source:

Source Type:	Not reported

Action:

Action Type:	Tier Classification
Action Stat:	Level I - Technical Screen Audit
Action Date:	01/09/2009
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	Revised Statement or Transmittal Received
Action Date:	09/12/2008
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	LNKVTC
Action Date:	09/12/2008
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	Tier 2 Classification
Action Date:	09/12/2008
Response Action Outcome:	Not reported
Action Type:	Response Action Outcome Not Required
Action Stat:	Related to a Tier Classified Site
Action Date:	09/12/2008
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Stat:	LNKVTC
Action Date:	09/11/2008
Response Action Outcome:	Not reported
Action Type:	Response Action Outcome Not Required
Action Stat:	Related to a Tier Classified Site

FORMER PARK MOTORS (Continued) **S108858879**

Action Date: 09/11/2008
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 02/14/2008
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 09/19/2007
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 09/17/2007
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Level I - Technical Screen Audit
Action Date: 09/11/2007
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 09/10/2007
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 09/10/2007
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 09/10/2007
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 11/01/2005
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 10/27/2005
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 10/27/2005
Response Action Outcome: Not reported

Facility ID: 4-0021046
Release Town: FAIRHAVEN
Notification Date: 02/14/2008

FORMER PARK MOTORS (Continued) **S108858879**

Category: 120 DY
Associated ID: 4-0018738
Compliance Status: Response Action Outcome Not Required
Status Date: 09/12/2008
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Hazardous Material

Chemical:
Chemical: CADMIUM
Quantity: 2.21 milligrams per kilogram
Chemical: ARSENIC
Quantity: 105 milligrams per kilogram

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Tier Classification
Action Stat: Level I - Technical Screen Audit
Action Date: 01/09/2009
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 09/12/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 09/12/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 09/12/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVTC
Action Date: 09/12/2008
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 09/11/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVTC
Action Date: 09/11/2008
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 02/14/2008

FORMER PARK MOTORS (Continued) **S108858879**

Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 02/14/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 11/01/2005
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 10/27/2005
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 10/27/2005
Response Action Outcome: Not reported

Release:
Facility ID: 4-0020775
Primary ID: 4-0018738
Official City: FAIRHAVEN
Notification: 09/10/2007
Category: 120 DY
Facility Status: Response Action Outcome Not Required
Status Date: 09/12/2008
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Oil

Action:
Action Type: Tier Classification
Action Stat: Level I - Technical Screen Audit
Action Date: 01/09/2009
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 09/12/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVTC
Action Date: 09/12/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 09/12/2008
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required

FORMER PARK MOTORS (Continued) **S108858879**

Action Stat: Related to a Tier Classified Site
Action Date: 09/12/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVTC
Action Date: 09/11/2008
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 09/11/2008
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 02/14/2008
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 09/19/2007
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 09/17/2007
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Level I - Technical Screen Audit
Action Date: 09/11/2007
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 09/10/2007
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 09/10/2007
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 09/10/2007
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 11/01/2005
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 10/27/2005

FORMER PARK MOTORS (Continued) **S108858879**

Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 10/27/2005
Response Action Outcome: Not reported

Chemical:
Chemical: TPH
Quantity: 4380 milligrams per kilogram

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Tier Classification
Action Stat: Level I - Technical Screen Audit
Action Date: 01/09/2009
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 09/12/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVTC
Action Date: 09/12/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 09/12/2008
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 09/12/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVTC
Action Date: 09/11/2008
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 09/11/2008
Response Action Outcome: Not reported

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 02/14/2008
Response Action Outcome: Not reported

FORMER PARK MOTORS (Continued) **S108858879**

Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	09/19/2007
Response Action Outcome:	Not reported

Action Type:	Release Abatement Measure
Action Stat:	Fee Received
Action Date:	09/17/2007
Response Action Outcome:	Not reported

Action Type:	Release Abatement Measure
Action Stat:	Level I - Technical Screen Audit
Action Date:	09/11/2007
Response Action Outcome:	Not reported

Action Type:	Release
Action Stat:	REPORT
Action Date:	09/10/2007
Response Action Outcome:	Not reported

Action Type:	Release Abatement Measure
Action Stat:	Written Plan Received
Action Date:	09/10/2007
Response Action Outcome:	Not reported

Action Type:	RNF
Action Stat:	REPORT
Action Date:	09/10/2007
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Stat:	Legal Notice Published
Action Date:	11/01/2005
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Stat:	Tier 2 Classification
Action Date:	10/27/2005
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Stat:	Transmittal Received
Action Date:	10/27/2005
Response Action Outcome:	Not reported

Facility ID:	4-0021046
Primary ID:	4-0018738
Official City:	FAIRHAVEN
Notification:	02/14/2008
Category:	120 DY
Facility Status:	Response Action Outcome Not Required
Status Date:	09/12/2008
Phase:	Not reported
Rspns Actn Outcome Class:	Not reported
Oil / Haz Material Type:	Hazardous Material

FORMER PARK MOTORS (Continued) **S108858879**

Action:

Action Type:	Tier Classification
Action Stat:	Level I - Technical Screen Audit
Action Date:	01/09/2009
Response Action Outcome:	Not reported

Action Type:	Response Action Outcome Not Required
Action Stat:	Related to a Tier Classified Site
Action Date:	09/12/2008
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Stat:	Tier 2 Classification
Action Date:	09/12/2008
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Stat:	Revised Statement or Transmittal Received
Action Date:	09/12/2008
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Stat:	LNKVTC
Action Date:	09/12/2008
Response Action Outcome:	Not reported

Action Type:	Response Action Outcome Not Required
Action Stat:	Related to a Tier Classified Site
Action Date:	09/11/2008
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Stat:	LNKVTC
Action Date:	09/11/2008
Response Action Outcome:	Not reported

Action Type:	RNF
Action Stat:	REPORT
Action Date:	02/14/2008
Response Action Outcome:	Not reported

Action Type:	Release
Action Stat:	REPORT
Action Date:	02/14/2008
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Stat:	Legal Notice Published
Action Date:	11/01/2005
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Stat:	Transmittal Received
Action Date:	10/27/2005
Response Action Outcome:	Not reported

Action Type:	Tier Classification

FORMER PARK MOTORS (Continued) **S108858879**

Action Stat: Tier 2 Classification
Action Date: 10/27/2005
Response Action Outcome: Not reported

Chemical:
Chemical: CADMIUM
Quantity: 2.21 milligrams per kilogram
Chemical: ARSENIC
Quantity: 105 milligrams per kilogram

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Tier Classification
Action Stat: Level I - Technical Screen Audit
Action Date: 01/09/2009
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 09/12/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 09/12/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Revised Statement or Transmittal Received
Action Date: 09/12/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVTC
Action Date: 09/12/2008
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 09/11/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVTC
Action Date: 09/11/2008
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 02/14/2008
Response Action Outcome: Not reported

Action Type: Release

FORMER PARK MOTORS (Continued) **S108858879**

Action Stat: REPORT
Action Date: 02/14/2008
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Legal Notice Published
Action Date: 11/01/2005
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 10/27/2005
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 10/27/2005
Response Action Outcome: Not reported

W108 **BOATING CLUB** **SHWS** **S103384029**
NNE **80 MIDDLE ST** **LUST** **N/A**
> 1 **FAIRHAVEN, MA 02719** **RELEASE**
1.098 mi.
5799 ft. **Site 4 of 4 in cluster W**

Relative:
Higher

Actual:
9 ft.

SHWS:
Facility ID: 4-0013935
Release Town: FAIRHAVEN
Notification Date: 06/10/1998
Category: 72 HR
Associated ID: Not reported
Compliance Status: **Release Action Outcome**
Status Date: 07/23/2001
Phase: PHASE III
Response Action Outcome Class: A2
Oil Or Haz Material: Oil

Chemical:
Chemical: GASOLINE
Quantity: 10 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: UST
Source Type: PIPE

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/23/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 07/23/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

BOATING CLUB (Continued) **S103384029**

reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 06/17/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/17/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 06/17/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 06/17/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Imminent Hazard Evaluation Received
Action Date: 01/14/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 01/14/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 01/14/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 06/15/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/15/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release

BOATING CLUB (Continued) **S103384029**

Action Stat:	REPORT
Action Date:	06/10/1998
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

LUST:

Facility:

Facility ID:	4-0013935
Facility Status:	**Release Action Outcome**
Status Date:	07/23/2001
Source Type:	UST
Release Town:	FAIRHAVEN
Notification Date:	06/10/1998
Category:	72 HR
Associated ID:	Not reported
Phase:	PHASE III
Rspns Actn Outcome Class:	A2
Oil Or Haz Material:	Oil

Chemical:

Chemical:	GASOLINE
Quantity:	10 gallons

Location:

Location Type:	COMMERCIAL

Source:

Source Type:	UST
Source Type:	PIPE

Action:

Action Type:	Response Action Outcome
Action Stat:	RAO Statement Received
Action Date:	07/23/2001
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase II
Action Stat:	Completion Statement Received
Action Date:	07/23/2001
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Tier Classification
Action Stat:	Transmittal Received
Action Date:	06/17/1999
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response
Action Stat:	Status Report Received
Action Date:	06/17/1999
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase I
Action Stat:	Completion Statement Received

BOATING CLUB (Continued) **S103384029**

Action Date: 06/17/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 06/17/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Imminent Hazard Evaluation Received
Action Date: 01/14/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 01/14/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 01/14/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 06/15/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/15/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 06/10/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 4-0013935
Primary ID: Not reported
Official City: FAIRHAVEN
Notification: 06/10/1998
Category: 72 HR
Facility Status: Response Action Outcome
Status Date: 07/23/2001
Phase: PHASE III
Rspns Actn Outcome Class: A2

BOATING CLUB (Continued) **S103384029**

Oil / Haz Material Type: Oil

Action:

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/23/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 07/23/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 06/17/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/17/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 06/17/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 06/17/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Imminent Hazard Evaluation Received
Action Date: 01/14/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 01/14/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 01/14/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

BOATING CLUB (Continued) **S103384029**

Action Stat: IRA Assessment Only
Action Date: 06/15/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/15/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 06/10/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: GASOLINE
Quantity: 10 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: UST
Source Type: PIPE

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/23/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 07/23/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 06/17/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/17/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 06/17/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

BOATING CLUB (Continued) **S103384029**

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 06/17/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Imminent Hazard Evaluation Received
Action Date: 01/14/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 01/14/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 01/14/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 06/15/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 06/15/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 06/10/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

109
SW
> 1
1.107 mi.
5846 ft.

GETTY
30 ROCKDALE AVE
NEW BEDFORD, MA 02740

LUST **U000230791**
UST **N/A**
RELEASE
FINANCIAL ASSURANCE

Relative:
Higher

Actual:
2 ft.

LUST:

Facility:
Facility ID: 4-0000484
Facility Status: **Release Action Outcome**
Status Date: 06/05/2006
Source Type: UST
Release Town: NEW BEDFORD
Notification Date: 01/15/1988

GETTY (Continued) **U000230791**

Category: NONE
Associated ID: Not reported
Phase: PHASE V
Rspns Actn Outcome Class: A2
Oil Or Haz Material: Oil

Chemical:
Chemical: VOCS
Quantity: Not reported

Location:
Location Type: GASSTATION

Source:
Source Type: UST

Action:
Action Type: AUDCOM
Action Stat: Audit Follow-up Completion Statement Received
Action Date: 06/25/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Revised Statement or Transmittal Received
Action Date: 06/25/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Action Audited
Action Date: 05/15/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM
Action Stat: NAFNON
Action Date: 05/15/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM
Action Stat: NOA
Action Date: 12/18/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 06/21/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/05/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

GETTY (Continued) **U000230791**

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 06/05/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 09/15/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 09/03/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Revised Statement or Transmittal Received
Action Date: 04/28/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 04/28/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 02/06/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 03/25/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 07/29/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 02/20/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 08/28/2001

GETTY (Continued) **U000230791**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 07/30/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 06/14/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 08/25/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 06/23/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 03/03/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 03/03/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 02/18/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: INTLET
Action Date: 11/25/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 11/16/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

GETTY (Continued) **U000230791**

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 10/30/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM
Action Stat: NAFVIO
Action Date: 09/28/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 09/02/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 04/21/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 09/22/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 09/17/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Revised Statement or Transmittal Received
Action Date: 04/23/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 01/06/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/15/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/15/1996

GETTY (Continued) **U000230791**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: LSPFA
Action Date: 08/14/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 06/06/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 06/04/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: WAVREC
Action Date: 07/16/1993
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: WAVDN
Action Date: 07/16/1993
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/20/1989
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/15/1988
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 09/23/1987
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

UST:
Facility ID: 3458

Facility:
Owner Id: 139

GETTY (Continued) **U000230791**

Owner:	GETTY PETROLEUM MARKETING INC
Owner Address:	DEXTER RD & MASSASOIT AVE
Owner City,St,Zip:	EAST PROVIDENCE, RI 02914
Telephone:	(401) 434-1322
Description:	Gas Station
Fire Dept. ID:	5201
Date of Inspection:	Not reported
Inspector:	Not reported
Overfill Prevention:	Not reported
Spill Prevention:	Not reported

Tank ID:	1
Tank Status:	**Removed**
Tank Useage:	Not reported
Tank Material:	Steel
Tank Contents:	Not reported
Tank Leak Detection:	Inventory Record-Keeping
Pipe Material:	Steel
Pipe Container:	Not reported
Pipe Leak Detection:	Not reported
Serial Number:	Not reported
Aboveground:	No
Capacity:	5000
Contents:	Gasoline

Tank ID:	2
Tank Status:	**Removed**
Tank Useage:	Not reported
Tank Material:	Steel
Tank Contents:	Not reported
Tank Leak Detection:	Inventory Record-Keeping
Pipe Material:	Steel
Pipe Container:	Not reported
Pipe Leak Detection:	Not reported
Serial Number:	Not reported
Aboveground:	No
Capacity:	8000
Contents:	Gasoline

Tank ID:	3
Tank Status:	**Removed**
Tank Useage:	Not reported
Tank Material:	Steel
Tank Contents:	Not reported
Tank Leak Detection:	Inventory Record-Keeping
Pipe Material:	Steel
Pipe Container:	Not reported
Pipe Leak Detection:	Not reported
Serial Number:	Not reported
Aboveground:	No
Capacity:	4000
Contents:	Gasoline

GETTY (Continued) **U000230791**

Tank ID:	4
Tank Status:	**Removed**
Tank Useage:	Not reported
Tank Material:	Steel
Tank Contents:	Not reported
Tank Leak Detection:	Inventory Record-Keeping
Pipe Material:	Steel
Pipe Container:	Not reported
Pipe Leak Detection:	Not reported
Serial Number:	Not reported
Aboveground:	No
Capacity:	2000
Contents:	Diesel

Tank ID:	5
Tank Status:	**Removed**
Tank Useage:	Not reported
Tank Material:	Not reported
Tank Contents:	Not reported
Tank Leak Detection:	Not reported
Pipe Material:	Not reported
Pipe Container:	Not reported
Pipe Leak Detection:	Not reported
Serial Number:	Not reported
Aboveground:	No
Capacity:	5000
Contents:	Not reported

Tank ID:	6
Tank Status:	**In Use**
Tank Useage:	MV
Tank Material:	Reinforced
Tank Contents:	2 Walls
Tank Leak Detection:	Interstitial Monitoring
Pipe Material:	Reinforced
Pipe Container:	2 Walls
Pipe Leak Detection:	Interstitial Space Monitor
Serial Number:	Not reported
Aboveground:	No
Capacity:	12000
Contents:	Gasoline

Tank ID:	7
Tank Status:	**In Use**
Tank Useage:	MV
Tank Material:	Reinforced
Tank Contents:	2 Walls
Tank Leak Detection:	Interstitial Monitoring
Pipe Material:	Reinforced
Pipe Container:	2 Walls
Pipe Leak Detection:	Interstitial Space Monitor
Serial Number:	Not reported
Aboveground:	No
Capacity:	12000

GETTY (Continued) **U000230791**

Contents: Gasoline

Tank ID: 8
Tank Status: In Use
Tank Useage: MV
Tank Material: Reinforced
Tank Contents: 2 Walls
Tank Leak Detection: Interstitial Monitoring
Pipe Material: Reinforced
Pipe Container: 2 Walls
Pipe Leak Detection: Interstitial Space Monitor
Serial Number: Not reported
Aboveground: No
Capacity: 12000
Contents: Gasoline

Release:
Facility ID: 4-0000484
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 01/15/1988
Category: NONE
Facility Status: Response Action Outcome
Status Date: 06/05/2006
Phase: PHASE V
Rspns Actn Outcome Class: A2
Oil / Haz Material Type: Oil

Action:
Action Type: AUDCOM
Action Stat: Audit Follow-up Completion Statement Received
Action Date: 06/25/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Revised Statement or Transmittal Received
Action Date: 06/25/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Action Audited
Action Date: 05/15/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM
Action Stat: NAFNON
Action Date: 05/15/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM
Action Stat: NOA
Action Date: 12/18/2008

GETTY (Continued) **U000230791**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 06/21/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 06/05/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 06/05/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 09/15/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 09/03/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Revised Statement or Transmittal Received
Action Date: 04/28/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 04/28/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 02/06/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 03/25/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

GETTY (Continued) **U000230791**

Action Type: Phase V
Action Stat: IMRCD
Action Date: 07/29/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 02/20/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 08/28/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 07/30/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 06/14/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 08/25/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 06/23/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 03/03/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 03/03/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 02/18/1999

GETTY (Continued) **U000230791**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: INTLET
Action Date: 11/25/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 11/16/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 10/30/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM
Action Stat: NAFVIO
Action Date: 09/28/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 09/02/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 04/21/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 09/22/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 09/17/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Revised Statement or Transmittal Received
Action Date: 04/23/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

GETTY (Continued) **U000230791**

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 01/06/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/15/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/15/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: LSPFA
Action Date: 08/14/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 06/06/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 06/04/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: WAVREC
Action Date: 07/16/1993
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: WAVDN
Action Date: 07/16/1993
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/20/1989
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/15/1988

GETTY (Continued) **U000230791**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 09/23/1987
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemical:
Chemical: VOCS
Quantity: Not reported

Location:
Location Type: GASSTATION

Source:
Source Type: UST

Action:
Action Type: AUDCOM
Action Stat: Audit Follow-up Completion Statement Received
Action Date: 06/25/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Revised Statement or Transmittal Received
Action Date: 06/25/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Action Audited
Action Date: 05/15/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM
Action Stat: NAFNON
Action Date: 05/15/2009
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM
Action Stat: NOA
Action Date: 12/18/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 06/21/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received

GETTY (Continued) **U000230791**

Action Date: 06/05/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 06/05/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 09/15/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 09/03/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Revised Statement or Transmittal Received
Action Date: 04/28/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 04/28/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 02/06/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 03/25/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 07/29/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 02/20/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

GETTY (Continued) **U000230791**

Action Type: Phase V
Action Stat: IMRCD
Action Date: 08/28/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 07/30/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 06/14/2001
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 08/25/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 06/23/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 03/03/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 03/03/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 02/18/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: C&E
Action Stat: INTLET
Action Date: 11/25/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 11/16/1998

GETTY (Continued) **U000230791**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 10/30/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM
Action Stat: NAFVIO
Action Date: 09/28/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 09/02/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 04/21/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 09/22/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 09/17/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Revised Statement or Transmittal Received
Action Date: 04/23/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 01/06/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/15/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

GETTY (Continued) **U000230791**

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/15/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: LSPFA
Action Date: 08/14/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 06/06/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 06/04/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: WAVREC
Action Date: 07/16/1993
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: TREGS
Action Stat: WAVDN
Action Date: 07/16/1993
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/20/1989
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: TCTRNS
Action Date: 01/15/1988
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 09/23/1987
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

FINASS2:
Facility Id: 3458

GETTY (Continued) **U000230791**

Description: Gas Station
Work Phone: (401) 434-1322
Financial Resp: State Fund, Normal

X110 North > 1 1.112 mi. 5873 ft. **NIEMIEC MARINE** **SHWS** **S108640722**
173 POPES IS **RELEASE** **N/A**
NEW BEDFORD, MA 02740

Site 1 of 3 in cluster X

Relative: Equal

Actual: 0 ft.

SHWS:
Facility ID: 4-0020495
Release Town: NEW BEDFORD
Notification Date: 05/10/2007
Category: TWO HR
Associated ID: Not reported
Compliance Status: **Tier 1D, a release where the responsible party fails to provide a required submittal to DEP by a specified deadline.**
Status Date: 05/19/2008
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Oil

Chemical:
Chemical: DIESEL FUEL
Quantity: 30 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: BOAT

Action:
Action Type: C&E
Action Stat: NON
Action Date: 12/17/2009
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 05/18/2007
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 05/10/2007
Response Action Outcome: Not reported

Release:
Facility ID: 4-0020495
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 05/10/2007
Category: TWO HR
Facility Status: TIER1D
Status Date: 05/19/2008
Phase: Not reported

NIEMIEC MARINE (Continued) **S108640722**

Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Oil

Action:
Action Type: C&E
Action Stat: NON
Action Date: 12/17/2009
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 05/18/2007
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 05/10/2007
Response Action Outcome: Not reported

Chemical:
Chemical: DIESEL FUEL
Quantity: 30 gallons

Location:
Location Type: COMMERCIAL

Source:
Source Type: BOAT

Action:
Action Type: C&E
Action Stat: NON
Action Date: 12/17/2009
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 05/18/2007
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 05/10/2007
Response Action Outcome: Not reported

X111 **RIVERSIDE COMPLEX FMR** **SHWS** **S100361787**
North **POPESS IS** **RELEASE** **N/A**
> 1 **NEW BEDFORD, MA 02740**
1.117 mi.
5896 ft. **Site 2 of 3 in cluster X**

Relative:
Equal

Actual:
0 ft.

SHWS:
Facility ID: 4-0000459
Release Town: NEW BEDFORD
Notification Date: 01/15/1988
Category: NONE
Associated ID: Not reported
Compliance Status: **Release Action Outcome**

RIVERSIDE COMPLEX FMR (Continued) **S100361787**

Status Date: 07/30/1996
Phase: Not reported
Response Action Outcome Class: A1
Oil Or Haz Material: Not reported

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/30/1996
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
Action Stat: TCTRNS
Action Date: 01/15/1988
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Facility ID: 4-0000459
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 01/15/1988
Category: NONE
Facility Status: Response Action Outcome
Status Date: 07/30/1996
Phase: Not reported
Rspns Actn Outcome Class: A1
Oil / Haz Material Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/30/1996
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
Action Stat: TCTRNS
Action Date: 01/15/1988
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:

RIVERSIDE COMPLEX FMR (Continued) **S100361787**

Location Type: Not reported

Source:
Source Type: Not reported

Action:
Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 07/30/1996
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
Action Stat: TCTRNS
Action Date: 01/15/1988
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

X112 **NO LOCATION AID** **SHWS** **S100361773**
North **POPES IS** **LUST** **N/A**
> 1 **NEW BEDFORD, MA** **RELEASE**
1.117 mi.
5896 ft. **Site 3 of 3 in cluster X**

Relative:
Equal

Actual:
0 ft.

SHWS:
Facility ID: 4-0016591
Release Town: NEW BEDFORD
Notification Date: 09/25/2001
Category: TWO HR
Associated ID: Not reported
Compliance Status: **Adequately Regulated**
Status Date: 09/25/2001
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Oil

Chemical:
Chemical: GASOLINE
Quantity: Not reported

Location:
Location Type: WATERBODY

Source:
Source Type: BOAT

Action:
Action Type: RLFA
Action Stat: FLDD1U
Action Date: 10/23/2001
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/23/2001
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 09/25/2001

NO LOCATION AID (Continued) **S100361773**

Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: USCG
Action Date: 09/25/2001
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDD1U
Action Date: 09/25/2001
Response Action Outcome: Not reported

Facility ID: 4-0017357
Release Town: NEW BEDFORD
Notification Date: 09/16/2002
Category: TWO HR
Associated ID: Not reported
Compliance Status: Adequately Regulated
Status Date: 09/17/2002
Phase: Not reported
Response Action Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:
Chemical: OILY SHEEN
Quantity: Not reported

Location:
Location Type: WATERBODY

Source:
Source Type: UNKNOWN

Action:
Action Type: Response Action Outcome Not Required
Action Stat: USCG
Action Date: 09/17/2002
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDD1U
Action Date: 09/16/2002
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 09/16/2002
Response Action Outcome: Not reported

Facility ID: 4-0017344
Release Town: NEW BEDFORD
Notification Date: 09/15/2002
Category: TWO HR
Associated ID: Not reported
Compliance Status: Adequately Regulated
Status Date: 09/15/2002
Phase: Not reported

NO LOCATION AID (Continued) **S100361773**

Response Action Outcome Class: Not reported
Oil Or Haz Material: Oil

Chemical:
Chemical: OIL SHEEN
Quantity: Not reported

Location:
Location Type: WATERBODY

Source:
Source Type: UNKNOWN

Action:
Action Type: Response Action Outcome Not Required
Action Stat: USCG
Action Date: 09/15/2002
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDD1U
Action Date: 09/15/2002
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 09/15/2002
Response Action Outcome: Not reported

LUST:

Facility:
Facility ID: 4-0000125
Facility Status: No Further Action (DEP Determined)
Status Date: 07/23/1993
Source Type: UST
Release Town: NEW BEDFORD
Notification Date: 05/08/1986
Category: NONE
Associated ID: Not reported
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil Or Haz Material: Not reported

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: COMMERCIAL

Source:
Source Type: UST

Action:
Action Type: TREGS
Action Stat: DEPNFA
Action Date: 07/23/1993
Response Action Outcome: Not reported

NO LOCATION AID (Continued) **S100361773**

Action Type: TREGS
Action Stat: REMSIT
Action Date: 07/23/1993
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 05/08/1986
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 05/08/1986
Response Action Outcome: Not reported

Release:
Facility ID: 4-0000125
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 05/08/1986
Category: NONE
Facility Status: DEP No Further Action
Status Date: 07/23/1993
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: TREGS
Action Stat: DEPNFA
Action Date: 07/23/1993
Response Action Outcome: Not reported

Action Type: TREGS
Action Stat: REMSIT
Action Date: 07/23/1993
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 05/08/1986
Response Action Outcome: Not reported

Action Type: Release
Action Stat: TCTRNS
Action Date: 05/08/1986
Response Action Outcome: Not reported

Chemical:
Chemical: UNKNOWN
Quantity: Not reported

Location:
Location Type: COMMERCIAL

Source:
Source Type: UST

NO LOCATION AID (Continued) **S100361773**

Action:

Action Type:	TREGS
Action Stat:	DEPNFA
Action Date:	07/23/1993
Response Action Outcome:	Not reported

Action Type:	TREGS
Action Stat:	REMSIT
Action Date:	07/23/1993
Response Action Outcome:	Not reported

Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	05/08/1986
Response Action Outcome:	Not reported

Action Type:	Release
Action Stat:	TCTRNS
Action Date:	05/08/1986
Response Action Outcome:	Not reported

Facility ID:	4-0016591
Primary ID:	Not reported
Official City:	NEW BEDFORD
Notification:	09/25/2001
Category:	TWO HR
Facility Status:	ADQREG
Status Date:	09/25/2001
Phase:	Not reported
Rspns Actn Outcome Class:	Not reported
Oil / Haz Material Type:	Oil

Action:

Action Type:	RLFA
Action Stat:	FLDD1U
Action Date:	10/23/2001
Response Action Outcome:	Not reported

Action Type:	RLFA
Action Stat:	FOLOFF
Action Date:	10/23/2001
Response Action Outcome:	Not reported

Action Type:	Release
Action Stat:	REPORT
Action Date:	09/25/2001
Response Action Outcome:	Not reported

Action Type:	Response Action Outcome Not Required
Action Stat:	USCG
Action Date:	09/25/2001
Response Action Outcome:	Not reported

Action Type:	RLFA
Action Stat:	FLDD1U
Action Date:	09/25/2001

NO LOCATION AID (Continued) **S100361773**

Response Action Outcome: Not reported

Chemical:
Chemical: GASOLINE
Quantity: Not reported

Location:
Location Type: WATERBODY

Source:
Source Type: BOAT

Action:
Action Type: RLFA
Action Stat: FLDD1U
Action Date: 10/23/2001
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/23/2001
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 09/25/2001
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: USCG
Action Date: 09/25/2001
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDD1U
Action Date: 09/25/2001
Response Action Outcome: Not reported

Facility ID: 4-0017344
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 09/15/2002
Category: TWO HR
Facility Status: ADQREG
Status Date: 09/15/2002
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Oil

Action:
Action Type: Response Action Outcome Not Required
Action Stat: USCG
Action Date: 09/15/2002
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDD1U
Action Date: 09/15/2002

NO LOCATION AID (Continued) **S100361773**

Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 09/15/2002
Response Action Outcome: Not reported

Chemical:
Chemical: OIL SHEEN
Quantity: Not reported

Location:
Location Type: WATERBODY

Source:
Source Type: UNKNOWN

Action:
Action Type: Response Action Outcome Not Required
Action Stat: USCG
Action Date: 09/15/2002
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDD1U
Action Date: 09/15/2002
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 09/15/2002
Response Action Outcome: Not reported

Facility ID: 4-0017357
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 09/16/2002
Category: TWO HR
Facility Status: ADQREG
Status Date: 09/17/2002
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Not reported

Action:
Action Type: Response Action Outcome Not Required
Action Stat: USCG
Action Date: 09/17/2002
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDD1U
Action Date: 09/16/2002
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 09/16/2002

NO LOCATION AID (Continued) **S100361773**

Response Action Outcome: Not reported

Chemical:
Chemical: OILY SHEEN
Quantity: Not reported

Location:
Location Type: WATERBODY

Source:
Source Type: UNKNOWN

Action:
Action Type: Response Action Outcome Not Required
Action Stat: USCG
Action Date: 09/17/2002
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FLDD1U
Action Date: 09/16/2002
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 09/16/2002
Response Action Outcome: Not reported

---

113 WSW > 1 1.120 mi. 5914 ft. | **M&P AUTO SERVICE 364 DARTMOUTH ST NEW BEDFORD, MA** | **LUST RELEASE** | **S102967643 N/A**

Relative: Higher

Actual: 44 ft.

LUST:

Facility:
Facility ID: 4-0017982
Facility Status: Response Action Outcome Not Required
Status Date: 12/19/2003
Source Type: UST
Release Town: NEW BEDFORD
Notification Date: 08/21/2003
Category: 72 HR
Associated ID: 4-0013436
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil Or Haz Material: Oil

Chemical:
Chemical: VOCS
Quantity: 100 parts per million
Chemical: GASOLINE
Quantity: Not reported

Location:
Location Type: COMMERCIAL

Source:
Source Type: UST

M&P AUTO SERVICE (Continued) **S102967643**

Action:

Action Type:	Tier Classification
Action Stat:	Tier 2 Extension
Action Date:	08/10/2009
Response Action Outcome:	Not reported

Action Type:	Response Action Outcome Not Required
Action Stat:	Related to a Tier Classified Site
Action Date:	12/19/2003
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Stat:	LNKVIC
Action Date:	12/19/2003
Response Action Outcome:	Not reported

Action Type:	RNF
Action Stat:	REPORT
Action Date:	12/19/2003
Response Action Outcome:	Not reported

Action Type:	Immediate Response
Action Stat:	Imminent Hazard Evaluation Received
Action Date:	12/19/2003
Response Action Outcome:	Not reported

Action Type:	Immediate Response
Action Stat:	Completion Statement Received
Action Date:	12/19/2003
Response Action Outcome:	Not reported

Action Type:	C&E
Action Stat:	NON
Action Date:	12/09/2003
Response Action Outcome:	Not reported

Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	09/19/2003
Response Action Outcome:	Not reported

Action Type:	Release
Action Stat:	REPORT
Action Date:	08/21/2003
Response Action Outcome:	Not reported

Action Type:	Immediate Response
Action Stat:	Oral Approval of Plan
Action Date:	08/21/2003
Response Action Outcome:	Not reported

Action Type:	Tier Classification
Action Stat:	Tier 2 Classification
Action Date:	06/19/2003
Response Action Outcome:	Not reported

Action Type:	Tier Classification

M&P AUTO SERVICE (Continued) **S102967643**

Action Stat: Transmittal Received
Action Date: 06/19/2003
Response Action Outcome: Not reported

Facility:
Facility ID: 4-0013436
Facility Status: Release Action Outcome
Status Date: 12/19/2003
Source Type: UST
Release Town: NEW BEDFORD
Notification Date: 10/20/1997
Category: 72 HR
Associated ID: 4-0013436
Phase: PHASE IV
Rspns Actn Outcome Class: C2
Oil Or Haz Material: Oil

Chemical:
Chemical: GASOLINE
Quantity: 1

Location:
Location Type: COMMERCIAL

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 01/06/2010
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 08/10/2009
Response Action Outcome: C2

Action Type: Response Action Outcome
Action Stat: Revised Statement or Transmittal Received
Action Date: 08/10/2009
Response Action Outcome: C2

Action Type: C&E
Action Stat: NON
Action Date: 06/30/2009
Response Action Outcome: C2

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 12/19/2003
Response Action Outcome: C2

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 12/19/2003
Response Action Outcome: C2

M&P AUTO SERVICE (Continued) **S102967643**

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 12/19/2003
Response Action Outcome: C2

Action Type: Phase IV
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 12/19/2003
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: LNKVIC
Action Date: 12/19/2003
Response Action Outcome: C2

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 06/19/2003
Response Action Outcome: C2

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 06/19/2003
Response Action Outcome: C2

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 06/19/2003
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 06/19/2003
Response Action Outcome: C2

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 06/19/2003
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 06/19/2003
Response Action Outcome: C2

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/30/1999
Response Action Outcome: C2

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 02/08/1999
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Fee Received

M&P AUTO SERVICE (Continued) **S102967643**

Action Date: 01/21/1999
Response Action Outcome: C2

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 09/24/1998
Response Action Outcome: C2

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 11/21/1997
Response Action Outcome: C2

Action Type: Immediate Response
Action Stat: Imminent Hazard Evaluation Received
Action Date: 11/21/1997
Response Action Outcome: C2

Action Type: RNF
Action Stat: REPORT
Action Date: 11/21/1997
Response Action Outcome: C2

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/24/1997
Response Action Outcome: C2

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 10/20/1997
Response Action Outcome: C2

Action Type: Release
Action Stat: REPORT
Action Date: 10/20/1997
Response Action Outcome: C2

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/20/1997
Response Action Outcome: C2

Release:
Facility ID: 4-0013436
Primary ID: 4-0013436
Official City: NEW BEDFORD
Notification: 10/20/1997
Category: 72 HR
Facility Status: Response Action Outcome
Status Date: 12/19/2003
Phase: PHASE IV
Rspns Actn Outcome Class: C2
Oil / Haz Material Type: Oil

Action:

M&P AUTO SERVICE (Continued) **S102967643**

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 01/06/2010
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 08/10/2009
Response Action Outcome: C2

Action Type: Response Action Outcome
Action Stat: Revised Statement or Transmittal Received
Action Date: 08/10/2009
Response Action Outcome: C2

Action Type: C&E
Action Stat: NON
Action Date: 06/30/2009
Response Action Outcome: C2

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 12/19/2003
Response Action Outcome: C2

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 12/19/2003
Response Action Outcome: C2

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 12/19/2003
Response Action Outcome: C2

Action Type: Phase IV
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 12/19/2003
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: LNKVIC
Action Date: 12/19/2003
Response Action Outcome: C2

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 06/19/2003
Response Action Outcome: C2

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 06/19/2003
Response Action Outcome: C2

Action Type: Phase IV
Action Stat: Written Plan Received

M&P AUTO SERVICE (Continued) **S102967643**

Action Date: 06/19/2003
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 06/19/2003
Response Action Outcome: C2

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 06/19/2003
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 06/19/2003
Response Action Outcome: C2

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/30/1999
Response Action Outcome: C2

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 02/08/1999
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 01/21/1999
Response Action Outcome: C2

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 09/24/1998
Response Action Outcome: C2

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 11/21/1997
Response Action Outcome: C2

Action Type: Immediate Response
Action Stat: Imminent Hazard Evaluation Received
Action Date: 11/21/1997
Response Action Outcome: C2

Action Type: RNF
Action Stat: REPORT
Action Date: 11/21/1997
Response Action Outcome: C2

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/24/1997
Response Action Outcome: C2

M&P AUTO SERVICE (Continued) **S102967643**

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 10/20/1997
Response Action Outcome: C2

Action Type: Release
Action Stat: REPORT
Action Date: 10/20/1997
Response Action Outcome: C2

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/20/1997
Response Action Outcome: C2

Chemical:
Chemical: GASOLINE
Quantity: 1

Location:
Location Type: COMMERCIAL

Source:
Source Type: UST

Action:
Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 01/06/2010
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 08/10/2009
Response Action Outcome: C2

Action Type: Response Action Outcome
Action Stat: Revised Statement or Transmittal Received
Action Date: 08/10/2009
Response Action Outcome: C2

Action Type: C&E
Action Stat: NON
Action Date: 06/30/2009
Response Action Outcome: C2

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 12/19/2003
Response Action Outcome: C2

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 12/19/2003
Response Action Outcome: C2

Action Type: Phase III
Action Stat: Completion Statement Received

M&P AUTO SERVICE (Continued) **S102967643**

Action Date: 12/19/2003
Response Action Outcome: C2

Action Type: Phase IV
Action Stat: Modified, Revised, or Updated Plan Received
Action Date: 12/19/2003
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: LNKVIC
Action Date: 12/19/2003
Response Action Outcome: C2

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 06/19/2003
Response Action Outcome: C2

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 06/19/2003
Response Action Outcome: C2

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 06/19/2003
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 06/19/2003
Response Action Outcome: C2

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 06/19/2003
Response Action Outcome: C2

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 06/19/2003
Response Action Outcome: C2

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 06/30/1999
Response Action Outcome: C2

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 02/08/1999
Response Action Outcome: C2

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 01/21/1999
Response Action Outcome: C2

M&P AUTO SERVICE (Continued) **S102967643**

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 09/24/1998
Response Action Outcome: C2

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 11/21/1997
Response Action Outcome: C2

Action Type: Immediate Response
Action Stat: Imminent Hazard Evaluation Received
Action Date: 11/21/1997
Response Action Outcome: C2

Action Type: RNF
Action Stat: REPORT
Action Date: 11/21/1997
Response Action Outcome: C2

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 10/24/1997
Response Action Outcome: C2

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 10/20/1997
Response Action Outcome: C2

Action Type: Release
Action Stat: REPORT
Action Date: 10/20/1997
Response Action Outcome: C2

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/20/1997
Response Action Outcome: C2

Facility ID: 4-0017982
Primary ID: 4-0013436
Official City: NEW BEDFORD
Notification: 08/21/2003
Category: 72 HR
Facility Status: Response Action Outcome Not Required
Status Date: 12/19/2003
Phase: Not reported
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Oil

Action:
Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 08/10/2009
Response Action Outcome: Not reported

M&P AUTO SERVICE (Continued) **S102967643**

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 12/19/2003
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVIC
Action Date: 12/19/2003
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 12/19/2003
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Imminent Hazard Evaluation Received
Action Date: 12/19/2003
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 12/19/2003
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: NON
Action Date: 12/09/2003
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 09/19/2003
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 08/21/2003
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 08/21/2003
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 06/19/2003
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 06/19/2003
Response Action Outcome: Not reported

Chemical:
Chemical: VOCS

M&P AUTO SERVICE (Continued) **S102967643**

Quantity: 100 parts per million
Chemical: GASOLINE
Quantity: Not reported

Location:
Location Type: COMMERCIAL

Source:
Source Type: UST

Action:
Action Type: Tier Classification
Action Stat: Tier 2 Extension
Action Date: 08/10/2009
Response Action Outcome: Not reported

Action Type: Response Action Outcome Not Required
Action Stat: Related to a Tier Classified Site
Action Date: 12/19/2003
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: LNKVIC
Action Date: 12/19/2003
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 12/19/2003
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Imminent Hazard Evaluation Received
Action Date: 12/19/2003
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 12/19/2003
Response Action Outcome: Not reported

Action Type: C&E
Action Stat: NON
Action Date: 12/09/2003
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 09/19/2003
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 08/21/2003
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 08/21/2003

M&P AUTO SERVICE (Continued) **S102967643**

Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 06/19/2003
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 06/19/2003
Response Action Outcome: Not reported

Y114
NW
> 1
1.121 mi.
5919 ft.

Relative: Higher

Actual: 106 ft.

CUMBERLAND FARMS **LUST** **S106343877**
486 COUNTY ST **RELEASE** **N/A**
NEW BEDFORD, MA

Site 1 of 2 in cluster Y

LUST:

Facility:
Facility ID: 4-0015802
Facility Status: Downgradient Property Status
Status Date: 10/15/2001
Source Type: UST
Release Town: NEW BEDFORD
Notification Date: 10/06/2000
Category: 72 HR
Associated ID: Not reported
Phase: PHASE II
Rspns Actn Outcome Class: Not reported
Oil Or Haz Material: Oil

Chemical:
Chemical: GASOLINE
Quantity: 1 inches

Location:
Location Type: COMMERCIAL

Source:
Source Type: UST

Action:
Action Type: RLFA
Action Stat: FLDRAN
Action Date: 06/11/2008
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Stat: Fee Received
Action Date: 10/19/2001
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Stat: Transmittal Received
Action Date: 10/15/2001
Response Action Outcome: Not reported

CUMBERLAND FARMS (Continued) **S106343877**

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 10/15/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 02/12/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 02/09/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 12/08/2000
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 12/04/2000
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 12/04/2000
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/10/2000
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 10/06/2000
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 10/06/2000
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/06/2000
Response Action Outcome: Not reported

Release:
Facility ID: 4-0015802
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 10/06/2000
Category: 72 HR

CUMBERLAND FARMS (Continued) **S106343877**

Facility Status: Downgradient Property Status
Status Date: 10/15/2001
Phase: PHASE II
Rspns Actn Outcome Class: Not reported
Oil / Haz Material Type: Oil

Action:

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 06/11/2008
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Stat: Fee Received
Action Date: 10/19/2001
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Stat: Transmittal Received
Action Date: 10/15/2001
Response Action Outcome: Not reported

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 10/15/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 02/12/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 02/09/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 12/08/2000
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 12/04/2000
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 12/04/2000
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/10/2000
Response Action Outcome: Not reported

Action Type: Release

CUMBERLAND FARMS (Continued) **S106343877**

Action Stat: REPORT
Action Date: 10/06/2000
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 10/06/2000
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/06/2000
Response Action Outcome: Not reported

Chemical:
Chemical: GASOLINE
Quantity: 1 inches

Location:
Location Type: COMMERCIAL

Source:
Source Type: UST

Action:
Action Type: RLFA
Action Stat: FLDRAN
Action Date: 06/11/2008
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Stat: Fee Received
Action Date: 10/19/2001
Response Action Outcome: Not reported

Action Type: Downgradient Property Status
Action Stat: Transmittal Received
Action Date: 10/15/2001
Response Action Outcome: Not reported

Action Type: Phase I
Action Stat: Completion Statement Received
Action Date: 10/15/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 02/12/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Status Report Received
Action Date: 02/09/2001
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Level I - Technical Screen Audit
Action Date: 12/08/2000

CUMBERLAND FARMS (Continued) **S106343877**

Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 12/04/2000
Response Action Outcome: Not reported

Action Type: RNF
Action Stat: REPORT
Action Date: 12/04/2000
Response Action Outcome: Not reported

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 11/10/2000
Response Action Outcome: Not reported

Action Type: Release
Action Stat: REPORT
Action Date: 10/06/2000
Response Action Outcome: Not reported

Action Type: Immediate Response
Action Stat: Oral Approval of Plan
Action Date: 10/06/2000
Response Action Outcome: Not reported

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 10/06/2000
Response Action Outcome: Not reported

Y115
NW
> 1
1.121 mi.
5919 ft.

Relative: Higher

Actual: 106 ft.

GULF STATION **LUST** **S104232373**
486 COUNTY ST **RELEASE** **N/A**
NEW BEDFORD, MA

Site 2 of 2 in cluster Y

LUST:

Facility:
Facility ID: 4-0010483
Facility Status: **Release Action Outcome**
Status Date: 04/09/2007
Source Type: UST
Release Town: NEW BEDFORD
Notification Date: 05/19/1994
Category: 72 HR
Associated ID: Not reported
Phase: Not reported
Rspns Actn Outcome Class: A2
Oil Or Haz Material: Oil

Chemical:
Chemical: GASOLINE
Quantity: 50 parts per million
Chemical: GASOLINE
Quantity: 190 parts per million

GULF STATION (Continued) **S104232373**

Location:
Location Type: COMMERCIAL

Source:
Source Type: UST

Action:
Action Type: AUDCOM
Action Stat: Audit Follow-up Completion Statement Received
Action Date: 10/09/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM
Action Stat: NAFNON
Action Date: 08/07/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Action Audited
Action Date: 08/07/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 06/11/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM
Action Stat: NOA
Action Date: 05/29/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 04/24/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Completion Statement Received
Action Date: 04/09/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 04/09/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 12/22/2006

GULF STATION (Continued) **S104232373**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: RMRINT
Action Date: 12/22/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 06/26/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 12/30/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 08/08/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 03/08/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 09/09/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 06/14/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Revised Statement or Transmittal Received
Action Date: 06/14/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 03/08/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

GULF STATION (Continued) **S104232373**

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 03/10/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 08/20/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 02/27/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 09/05/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 04/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 04/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 07/29/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 04/13/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 04/07/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 02/02/1998

GULF STATION (Continued) **S104232373**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 01/08/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 10/03/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 09/12/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 08/29/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 05/02/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 01/28/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 10/10/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 07/25/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 06/26/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

GULF STATION (Continued) **S104232373**

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 04/18/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 04/18/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 04/08/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 03/28/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 02/23/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/28/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/28/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 05/25/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Approval of Plan
Action Date: 05/04/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 04/28/1995

GULF STATION (Continued) **S104232373**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 04/13/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Denial of Plan
Action Date: 03/15/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 02/16/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 11/01/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Approval of Plan
Action Date: 11/01/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 10/13/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 09/13/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 09/13/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 07/19/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

GULF STATION (Continued) **S104232373**

Action Type: RNF
Action Stat: REPORT
Action Date: 07/19/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 05/25/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 05/19/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 05/19/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Facility ID: 4-0010483
Primary ID: Not reported
Official City: NEW BEDFORD
Notification: 05/19/1994
Category: 72 HR
Facility Status: Response Action Outcome
Status Date: 04/09/2007
Phase: Not reported
Rspns Actn Outcome Class: A2
Oil / Haz Material Type: Oil

Action:
Action Type: AUDCOM
Action Stat: Audit Follow-up Completion Statement Received
Action Date: 10/09/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM
Action Stat: NAFNON
Action Date: 08/07/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Action Audited
Action Date: 08/07/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA

GULF STATION (Continued) **S104232373**

Action Stat: FLDRAN
Action Date: 06/11/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM
Action Stat: NOA
Action Date: 05/29/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 04/24/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Completion Statement Received
Action Date: 04/09/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 04/09/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 12/22/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: RMRINT
Action Date: 12/22/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 06/26/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 12/30/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 08/08/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

GULF STATION (Continued) **S104232373**

reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 03/08/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 09/09/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 06/14/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Revised Statement or Transmittal Received
Action Date: 06/14/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 03/08/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 03/10/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 08/20/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 02/27/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 09/05/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure

GULF STATION (Continued) **S104232373**

Action Stat: Completion Statement Received
Action Date: 04/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 04/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 07/29/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 04/13/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 04/07/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 02/02/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 01/08/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 10/03/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 09/12/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 08/29/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

GULF STATION (Continued) **S104232373**

reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 05/02/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 01/28/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 10/10/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 07/25/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 06/26/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 04/18/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 04/18/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 04/08/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 03/28/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response

GULF STATION (Continued) **S104232373**

Action Stat: Completion Statement Received
Action Date: 02/23/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/28/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/28/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 05/25/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Approval of Plan
Action Date: 05/04/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 04/28/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 04/13/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Denial of Plan
Action Date: 03/15/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 02/16/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 11/01/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

GULF STATION (Continued) **S104232373**

reduced to background.

Action Type: Immediate Response
Action Stat: Written Approval of Plan
Action Date: 11/01/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 10/13/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 09/13/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 09/13/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 07/19/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Stat: REPORT
Action Date: 07/19/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 05/25/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: IRA Assessment Only
Action Date: 05/19/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release
Action Stat: REPORT
Action Date: 05/19/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

GULF STATION (Continued) **S104232373**

Chemical:
Chemical: GASOLINE
Quantity: 50 parts per million
Chemical: GASOLINE
Quantity: 190 parts per million

Location:
Location Type: COMMERCIAL

Source:
Source Type: UST

Action:
Action Type: AUDCOM
Action Stat: Audit Follow-up Completion Statement Received
Action Date: 10/09/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM
Action Stat: NAFNON
Action Date: 08/07/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Action Audited
Action Date: 08/07/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 06/11/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: AUDCOM
Action Stat: NOA
Action Date: 05/29/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: Level I - Technical Screen Audit
Action Date: 04/24/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Completion Statement Received
Action Date: 04/09/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome
Action Stat: RAO Statement Received
Action Date: 04/09/2007

GULF STATION (Continued) **S104232373**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Status Report Received
Action Date: 12/22/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: RMRINT
Action Date: 12/22/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: ROSSTR
Action Date: 06/26/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 12/30/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 08/08/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 03/08/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 09/09/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 06/14/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Revised Statement or Transmittal Received
Action Date: 06/14/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

GULF STATION (Continued) **S104232373**

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 03/08/2004
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: Remedy Operation Status Submittal Received
Action Date: 03/10/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 08/20/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase V
Action Stat: IMRCD
Action Date: 02/27/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Completion Statement Received
Action Date: 09/05/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Completion Statement Received
Action Date: 04/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase IV
Action Stat: Written Plan Received
Action Date: 04/15/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 07/29/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase III
Action Stat: Completion Statement Received
Action Date: 04/13/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 04/07/1998

GULF STATION (Continued) **S104232373**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Completion Statement Received
Action Date: 02/02/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 01/08/1998
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 10/03/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase II
Action Stat: Scope of Work Received
Action Date: 09/12/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 08/29/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 05/02/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 01/28/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 10/10/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 07/25/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

GULF STATION (Continued) **S104232373**

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 06/26/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRAN
Action Date: 04/18/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FLDRUN
Action Date: 04/18/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 04/08/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 03/28/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Completion Statement Received
Action Date: 02/23/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Tier 2 Classification
Action Date: 08/28/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification
Action Stat: Transmittal Received
Action Date: 08/28/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Status Report Received
Action Date: 05/25/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Approval of Plan
Action Date: 05/04/1995

GULF STATION (Continued) **S104232373**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Fee Received
Action Date: 04/28/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure
Action Stat: Written Plan Received
Action Date: 04/13/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Denial of Plan
Action Date: 03/15/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 02/16/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 11/01/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Approval of Plan
Action Date: 11/01/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response
Action Stat: Written Plan Received
Action Date: 10/13/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Notice of Responsibility
Action Stat: ISSUED
Action Date: 09/13/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Stat: FOLOFF
Action Date: 09/13/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

GULF STATION (Continued) **S104232373**

Action Type:	Immediate Response
Action Stat:	Completion Statement Received
Action Date:	07/19/1994
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	RNF
Action Stat:	REPORT
Action Date:	07/19/1994
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Notice of Responsibility
Action Stat:	ISSUED
Action Date:	05/25/1994
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Immediate Response
Action Stat:	IRA Assessment Only
Action Date:	05/19/1994
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Release
Action Stat:	REPORT
Action Date:	05/19/1994
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

City	EDR ID	Site Name	Site Address	Zip	Database(s)
NEW BEDFORD	1003862291	POPE'S ISLAND	RTE 6	02740	CERCLIS-NFRAP
NEW BEDFORD	1003862392	FISH ISLAND	NEW BEDFORD HBR RTE 6	02740	CERCLIS-NFRAP,HWS,RELEASE
FAIRHAVEN	1003862409	MARSH ISLAND	ADJ TO RTE 195 OPAS	02719	CERCLIS-NFRAP,HWS,RELEASE
NEW BEDFORD	S101020638	ROADWAY/ACCIDENT	RTE 18		MA SPILLS
NEW BEDFORD	S101020958		KINGS HWY PLAZA		MA SPILLS
NEW BEDFORD	S101037313	EXIT 4	RTE 140 S		HWS,RELEASE
NEW BEDFORD	S101046398	ROADWAY	RTE 18 @ STATE PIER	02740	MA SPILLS
NEW BEDFORD	S101046700	FISH ISLAND	RTE 6	02740	MA SPILLS
FAIRHAVEN	S102967632	BEHIND MOTEL	RTE 6	02719	HWS,RELEASE
NEW BEDFORD	S103812452	NEAR INTERSECTION OF RTE. 6	RTE 18		HWS,RELEASE
NEW BEDFORD	S103812578	NEW BEDFORD-FAIRHAVEN BRIDGE	RTE 6		RELEASE,LAST
NEW BEDFORD	S104774374	STEAMSHIP DOCK	RTE 6		HWS,RELEASE
NEW BEDFORD	S104942062	AT ONEIDA ST	RTE 6		HWS,RELEASE
NEW BEDFORD	S105039525	PROPERTY	RTE 140	02740	HWS,RELEASE
NEW BEDFORD	S105200498	OHARA CHEVROLET FMR	981 101 KINGS HWY	02740	LUST,RELEASE
NEW BEDFORD	S105200621	@ COGGESHALL	RTE 195 WEST BOUND		HWS,RELEASE
FAIRHAVEN	S105309517	GASOLINE TANKER EAST OF RTE 240	RTE 195E / RTE 240	02719	HWS,RELEASE
FAIRHAVEN	S105522088	NEAR SEAPORT INN	ROUTE 6	02719	HWS,RELEASE
NEW BEDFORD	S105735789	ACUSHNET RIVER	RTE 195 E		HWS,RELEASE
FAIRHAVEN	S105811051	PROPERTY	NORTHWEST COR RTE 240 RTE 6	02719	HWS,RELEASE
NEW BEDFORD	S106030203	BETWEEN EXIT 14 & 15	RTE 195 W		HWS,RELEASE
NEW BEDFORD	S107405565	NEAR PURCHASE ST EXIT	RTE 18		HWS,RELEASE
FAIRHAVEN	S107678330	POLE #132/35	RTE 6	02719	HWS,RELEASE
NEW BEDFORD	S108962741	ELM ST	RTE 18 S		HWS,RELEASE
NEW BEDFORD	S109330294	SULLIVANS LEDGE	RTE 195 RTE 140 HATHAWAY RD		LF
NEW BEDFORD	S110115197	SOIL BORING LOCATION #13	RTE 18/ACUSHNET AVE	02744	HWS,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: 12/01/2009
Date Data Arrived at EDR: 01/14/2010
Date Made Active in Reports: 02/18/2010
Number of Days to Update: 35

Source: EPA
Telephone: N/A
Last EDR Contact: 02/19/2010
Next Scheduled EDR Contact: 04/26/2010
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: 12/01/2009
Date Data Arrived at EDR: 01/14/2010
Date Made Active in Reports: 02/18/2010
Number of Days to Update: 35

Source: EPA
Telephone: N/A
Last EDR Contact: 01/14/2010
Next Scheduled EDR Contact: 04/26/2010
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: 08/17/2009
Next Scheduled EDR Contact: 11/16/2009
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: 12/01/2009	Source: EPA
Date Data Arrived at EDR: 01/14/2010	Telephone: N/A
Date Made Active in Reports: 02/18/2010	Last EDR Contact: 02/19/2010
Number of Days to Update: 35	Next Scheduled EDR Contact: 04/26/2010
	Data Release Frequency: Quarterly

Federal CERCLIS list

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: 06/30/2009	Source: EPA
Date Data Arrived at EDR: 08/11/2009	Telephone: 703-412-9810
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 02/09/2010
Number of Days to Update: 41	Next Scheduled EDR Contact: 04/12/2010
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of NPL and Base Realighnment & Closure sites found in the CERCLIS database where FERRO is involved in cleanup projects.

Date of Government Version: 06/23/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/15/2010	Telephone: 703-603-8704
Date Made Active in Reports: 02/10/2010	Last EDR Contact: 01/15/2010
Number of Days to Update: 26	Next Scheduled EDR Contact: 04/26/2010
	Data Release Frequency: Varies

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: 06/23/2009	Source: EPA
Date Data Arrived at EDR: 09/02/2009	Telephone: 703-412-9810
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 02/23/2010
Number of Days to Update: 19	Next Scheduled EDR Contact: 03/15/2010
	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: 12/11/2009	Source: EPA
Date Data Arrived at EDR: 12/29/2009	Telephone: 800-424-9346
Date Made Active in Reports: 02/10/2010	Last EDR Contact: 02/15/2010
Number of Days to Update: 43	Next Scheduled EDR Contact: 05/31/2010
	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: 01/13/2010
Date Data Arrived at EDR: 01/15/2010
Date Made Active in Reports: 02/18/2010
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 02/19/2010
Next Scheduled EDR Contact: 04/19/2010
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: 01/13/2010
Date Data Arrived at EDR: 01/15/2010
Date Made Active in Reports: 02/18/2010
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 02/19/2010
Next Scheduled EDR Contact: 04/19/2010
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: 01/13/2010
Date Data Arrived at EDR: 01/15/2010
Date Made Active in Reports: 02/18/2010
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 02/19/2010
Next Scheduled EDR Contact: 04/19/2010
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: 01/13/2010
Date Data Arrived at EDR: 01/15/2010
Date Made Active in Reports: 02/18/2010
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 02/19/2010
Next Scheduled EDR Contact: 04/19/2010
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

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: 10/01/2009
Date Data Arrived at EDR: 10/09/2009
Date Made Active in Reports: 11/09/2009
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 12/10/2009
Next Scheduled EDR Contact: 03/29/2010
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: 10/01/2009
Date Data Arrived at EDR: 10/09/2009
Date Made Active in Reports: 11/09/2009
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 12/10/2009
Next Scheduled EDR Contact: 03/29/2010
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: 12/31/2009
Date Data Arrived at EDR: 01/22/2010
Date Made Active in Reports: 02/11/2010
Number of Days to Update: 20

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 01/15/2010
Next Scheduled EDR Contact: 04/19/2010
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: 01/15/2010
Date Data Arrived at EDR: 01/19/2010
Date Made Active in Reports: 01/28/2010
Number of Days to Update: 9

Source: Department of Environmental Protection
Telephone: 617-292-5990
Last EDR Contact: 02/19/2010
Next Scheduled EDR Contact: 05/03/2010
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

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: 01/01/2010
Date Data Arrived at EDR: 01/13/2010
Date Made Active in Reports: 01/28/2010
Number of Days to Update: 15

Source: Department of Environmental Protection
Telephone: 617-292-5989
Last EDR Contact: 01/13/2010
Next Scheduled EDR Contact: 04/26/2010
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 01/15/2010
Date Data Arrived at EDR: 01/19/2010
Date Made Active in Reports: 01/28/2010
Number of Days to Update: 9

Source: Department of Environmental Protection
Telephone: 617-292-5990
Last EDR Contact: 02/19/2010
Next Scheduled EDR Contact: 05/03/2010
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: 01/15/2010
Date Data Arrived at EDR: 01/19/2010
Date Made Active in Reports: 01/28/2010
Number of Days to Update: 9

Source: Department of Environmental Protection
Telephone: 617-292-5500
Last EDR Contact: 02/19/2010
Next Scheduled EDR Contact: 05/03/2010
Data Release Frequency: Quarterly

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: 12/01/2009
Date Data Arrived at EDR: 12/01/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 15

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 02/01/2010
Next Scheduled EDR Contact: 05/17/2010
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: 03/24/2009
Date Data Arrived at EDR: 05/20/2009
Date Made Active in Reports: 06/17/2009
Number of Days to Update: 28

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 02/01/2010
Next Scheduled EDR Contact: 05/17/2010
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: 11/12/2009
Date Data Arrived at EDR: 11/12/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 02/01/2010
Next Scheduled EDR Contact: 05/17/2010
Data Release Frequency: Varies

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: 02/19/2009
Date Data Arrived at EDR: 02/19/2009
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 25

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/01/2010
Next Scheduled EDR Contact: 05/17/2010
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 02/02/2010
Date Data Arrived at EDR: 02/03/2010
Date Made Active in Reports: 02/18/2010
Number of Days to Update: 15

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 02/01/2010
Next Scheduled EDR Contact: 05/17/2010
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: 11/24/2009
Date Data Arrived at EDR: 11/25/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 02/01/2010
Next Scheduled EDR Contact: 05/17/2010
Data Release Frequency: Quarterly

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 12/07/2009
Date Data Arrived at EDR: 12/09/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 7

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 02/01/2010
Next Scheduled EDR Contact: 05/17/2010
Data Release Frequency: Semi-Annually

State and tribal registered storage tank lists

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: 12/04/2009
Date Data Arrived at EDR: 12/11/2009
Date Made Active in Reports: 12/28/2009
Number of Days to Update: 17

Source: Department of Fire Services, Office of the Public Safety
Telephone: 978-567-3715
Last EDR Contact: 01/28/2010
Next Scheduled EDR Contact: 05/10/2010
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: 978-567-3715
Last EDR Contact: 01/28/2010
Next Scheduled EDR Contact: 05/10/2010
Data Release Frequency: Quarterly

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: 12/07/2009
Date Data Arrived at EDR: 12/09/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 7

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 02/01/2010
Next Scheduled EDR Contact: 05/17/2010
Data Release Frequency: Semi-Annually

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: 02/19/2009
Date Data Arrived at EDR: 02/19/2009
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 25

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/01/2010
Next Scheduled EDR Contact: 05/17/2010
Data Release Frequency: Varies

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: 02/02/2010
Date Data Arrived at EDR: 02/03/2010
Date Made Active in Reports: 02/18/2010
Number of Days to Update: 15

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 02/17/2010
Next Scheduled EDR Contact: 05/17/2010
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: 04/01/2008
Date Data Arrived at EDR: 12/30/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 76

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 02/01/2010
Next Scheduled EDR Contact: 05/17/2010
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: 02/08/2010
Date Data Arrived at EDR: 02/09/2010
Date Made Active in Reports: 02/18/2010
Number of Days to Update: 9

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 02/01/2010
Next Scheduled EDR Contact: 05/17/2010
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: 11/05/2009
Date Data Arrived at EDR: 11/05/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 41

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 02/01/2010
Next Scheduled EDR Contact: 05/17/2010
Data Release Frequency: Varies

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: 11/12/2009
Date Data Arrived at EDR: 11/20/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 26

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 02/01/2010
Next Scheduled EDR Contact: 05/17/2010
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: 12/01/2009
Date Data Arrived at EDR: 12/01/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 15

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 02/01/2010
Next Scheduled EDR Contact: 05/17/2010
Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 10/01/2009
Date Data Arrived at EDR: 10/29/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 48

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/18/2010
Next Scheduled EDR Contact: 05/03/2010
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: 01/15/2010
Date Data Arrived at EDR: 01/19/2010
Date Made Active in Reports: 01/28/2010
Number of Days to Update: 9

Source: Department of Environmental Protection
Telephone: 617-292-5990
Last EDR Contact: 02/19/2010
Next Scheduled EDR Contact: 05/03/2010
Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

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

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: 04/02/2008
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 1
Telephone: 617-918-1102
Last EDR Contact: 01/05/2010
Next Scheduled EDR Contact: 04/19/2010
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 10/01/2009
Date Data Arrived at EDR: 11/04/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 01/07/2010
Next Scheduled EDR Contact: 04/12/2010
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

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: 415-972-3336
Last EDR Contact: 01/07/2010
Next Scheduled EDR Contact: 03/22/2010
Data Release Frequency: Varies

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

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: 02/08/2010
Next Scheduled EDR Contact: 05/24/2010
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

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: 08/19/2009
Date Data Arrived at EDR: 12/29/2009
Date Made Active in Reports: 02/10/2010
Number of Days to Update: 43

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 12/14/2009
Next Scheduled EDR Contact: 03/22/2010
Data Release Frequency: Quarterly

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: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Land Records

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: 11/03/2009
Date Data Arrived at EDR: 11/05/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 41

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 02/01/2010
Next Scheduled EDR Contact: 05/17/2010
Data Release Frequency: Varies

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: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/23/2010
Next Scheduled EDR Contact: 06/07/2010
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: 12/31/2009
Date Data Arrived at EDR: 01/06/2010
Date Made Active in Reports: 02/10/2010
Number of Days to Update: 35

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 01/06/2010
Next Scheduled EDR Contact: 04/12/2010
Data Release Frequency: Annually

RELEASE: Reportable Releases

Contains information on all releases of oil and hazardous materials that have been reported to DEP

Date of Government Version: 01/15/2010
Date Data Arrived at EDR: 01/19/2010
Date Made Active in Reports: 01/28/2010
Number of Days to Update: 9

Source: Department of Environmental Protection
Telephone: 617-292-5990
Last EDR Contact: 02/19/2010
Next Scheduled EDR Contact: 05/03/2010
Data Release Frequency: Quarterly

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

Other Ascertainable Records

RCRA-NonGen: RCRA - Non 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). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 01/13/2010
Date Data Arrived at EDR: 01/15/2010
Date Made Active in Reports: 02/18/2010
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 02/19/2010
Next Scheduled EDR Contact: 04/19/2010
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 10/13/2009
Date Data Arrived at EDR: 11/10/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 36

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 02/09/2010
Next Scheduled EDR Contact: 05/24/2010
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: 703-692-8801
Last EDR Contact: 01/19/2010
Next Scheduled EDR Contact: 05/03/2010
Data Release Frequency: Semi-Annually

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: 12/31/2008
Date Data Arrived at EDR: 09/30/2009
Date Made Active in Reports: 12/01/2009
Number of Days to Update: 62

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 12/18/2009
Next Scheduled EDR Contact: 03/29/2010
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: 08/03/2009
Date Data Arrived at EDR: 10/27/2009
Date Made Active in Reports: 11/09/2009
Number of Days to Update: 13

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/05/2010
Next Scheduled EDR Contact: 04/19/2010
Data Release Frequency: Varies

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: 12/01/2009
Date Data Arrived at EDR: 12/15/2009
Date Made Active in Reports: 01/19/2010
Number of Days to Update: 35

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/15/2009
Next Scheduled EDR Contact: 03/29/2010
Data Release Frequency: Annually

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: 01/05/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 05/08/2009
Number of Days to Update: 1

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 12/23/2009
Next Scheduled EDR Contact: 03/15/2010
Data Release Frequency: Varies

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: 11/17/2009
Date Data Arrived at EDR: 12/08/2009
Date Made Active in Reports: 01/19/2010
Number of Days to Update: 42

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 12/08/2009
Next Scheduled EDR Contact: 03/22/2010
Data Release Frequency: Semi-Annually

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: 12/31/2008
Date Data Arrived at EDR: 01/13/2010
Date Made Active in Reports: 02/18/2010
Number of Days to Update: 36

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 01/13/2010
Next Scheduled EDR Contact: 03/15/2010
Data Release Frequency: Annually

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: 12/31/2002
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 46

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 01/20/2010
Next Scheduled EDR Contact: 04/12/2010
Data Release Frequency: Every 4 Years

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: 12/14/2009
Next Scheduled EDR Contact: 03/15/2010
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: 12/14/2009
Next Scheduled EDR Contact: 03/15/2010
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

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: 12/31/2008
Date Data Arrived at EDR: 01/06/2010
Date Made Active in Reports: 02/10/2010
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 02/01/2010
Next Scheduled EDR Contact: 05/17/2010
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: 11/10/2009
Date Data Arrived at EDR: 11/18/2009
Date Made Active in Reports: 01/19/2010
Number of Days to Update: 62

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 12/23/2009
Next Scheduled EDR Contact: 04/12/2010
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: 09/01/2009
Date Data Arrived at EDR: 10/21/2009
Date Made Active in Reports: 12/01/2009
Number of Days to Update: 41

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 02/16/2010
Next Scheduled EDR Contact: 05/03/2010
Data Release Frequency: Annually

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: 12/24/2009
Date Data Arrived at EDR: 12/31/2009
Date Made Active in Reports: 02/10/2010
Number of Days to Update: 41

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 12/14/2009
Next Scheduled EDR Contact: 03/29/2010
Data Release Frequency: Quarterly

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: 01/12/2010
Date Data Arrived at EDR: 01/13/2010
Date Made Active in Reports: 02/10/2010
Number of Days to Update: 28

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/13/2010
Next Scheduled EDR Contact: 04/26/2010
Data Release Frequency: Quarterly

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: 10/19/2009
Date Data Arrived at EDR: 10/22/2009
Date Made Active in Reports: 12/01/2009
Number of Days to Update: 40

Source: EPA
Telephone: (617) 918-1111
Last EDR Contact: 12/10/2009
Next Scheduled EDR Contact: 03/29/2010
Data Release Frequency: Quarterly

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

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: 12/31/2007
Date Data Arrived at EDR: 02/19/2009
Date Made Active in Reports: 05/22/2009
Number of Days to Update: 92

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 11/20/2009
Next Scheduled EDR Contact: 03/05/2010
Data Release Frequency: Biennially

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: 10/28/2009
Date Data Arrived at EDR: 10/29/2009
Date Made Active in Reports: 11/06/2009
Number of Days to Update: 8

Source: Department of Environmental Protection
Telephone: 617-292-5633
Last EDR Contact: 01/25/2010
Next Scheduled EDR Contact: 05/10/2010
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: 08/01/2004
Date Data Arrived at EDR: 09/01/2004
Date Made Active in Reports: 10/01/2004
Number of Days to Update: 30

Source: Department of Environmental Quality
Telephone: 617-292-5979
Last EDR Contact: 02/08/2010
Next Scheduled EDR Contact: 05/24/2010
Data Release Frequency: Varies

AIRS: Permitted Facilities Listing

A listing of Air Quality permit applications.

Date of Government Version: 10/27/2009
Date Data Arrived at EDR: 10/29/2009
Date Made Active in Reports: 11/06/2009
Number of Days to Update: 8

Source: Department of Environmental Protection
Telephone: 617-292-5789
Last EDR Contact: 02/08/2010
Next Scheduled EDR Contact: 05/10/2010
Data Release Frequency: Varies

LEAD: Lead Inspection Database

The Massachusetts Childhood Lead Poisoning Prevention Program data of lead inspection for the state.

Date of Government Version: 11/18/2009
Date Data Arrived at EDR: 11/25/2009
Date Made Active in Reports: 01/05/2010
Number of Days to Update: 41

Source: Department of Health & Human Services, Childhood Lead Poisoning Prevention Progr
Telephone: 617-624-5757
Last EDR Contact: 02/15/2010
Next Scheduled EDR Contact: 05/17/2010
Data Release Frequency: Varies

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: 01/19/2010
Next Scheduled EDR Contact: 05/03/2010
Data Release Frequency: Semi-Annually

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: 11/16/2009
Date Data Arrived at EDR: 11/16/2009
Date Made Active in Reports: 01/19/2010
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/08/2010
Next Scheduled EDR Contact: 05/10/2010
Data Release Frequency: Varies

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: 07/01/2009
Date Data Arrived at EDR: 08/21/2009
Date Made Active in Reports: 08/27/2009
Number of Days to Update: 6

Source: Department of Environmental Protection
Telephone: 617-292-5970
Last EDR Contact: 01/05/2010
Next Scheduled EDR Contact: 04/19/2010
Data Release Frequency: Varies

FINANCIAL ASSURANCE: Financial Assurance Information Listing

Financial Assurance information.

Date of Government Version: 10/01/2008
Date Data Arrived at EDR: 11/13/2008
Date Made Active in Reports: 12/23/2008
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: 617-292-5970
Last EDR Contact: 02/23/2010
Next Scheduled EDR Contact: 05/24/2010
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: 05/26/2009
Date Data Arrived at EDR: 08/05/2009
Date Made Active in Reports: 08/13/2009
Number of Days to Update: 8

Source: MassGIS
Telephone: 617-556-1150
Last EDR Contact: 02/08/2010
Next Scheduled EDR Contact: 05/24/2010
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: 10/22/2009
Date Data Arrived at EDR: 10/28/2009
Date Made Active in Reports: 11/06/2009
Number of Days to Update: 9

Source: Office of State Fire Marshal
Telephone: 978-567-3100
Last EDR Contact: 01/28/2010
Next Scheduled EDR Contact: 05/10/2010
Data Release Frequency: Quarterly

COAL ASH DOE: Sleam-Electric Plan 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: 01/27/2010
Next Scheduled EDR Contact: 05/03/2010
Data Release Frequency: Varies

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: 01/19/2010
Next Scheduled EDR Contact: 05/03/2010
Data Release Frequency: N/A

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: 11/09/2009
Date Data Arrived at EDR: 12/18/2009
Date Made Active in Reports: 02/10/2010
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 12/15/2009
Next Scheduled EDR Contact: 03/29/2010
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: 01/01/2008
Date Data Arrived at EDR: 02/18/2009
Date Made Active in Reports: 05/29/2009
Number of Days to Update: 100

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 02/24/2010
Next Scheduled EDR Contact: 05/17/2010
Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: 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

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.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 08/26/2009
Date Made Active in Reports: 09/11/2009
Number of Days to Update: 16

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/24/2009
Next Scheduled EDR Contact: 03/08/2010
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 01/20/2010
Date Made Active in Reports: 02/05/2010
Number of Days to Update: 16

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/20/2010
Next Scheduled EDR Contact: 05/03/2010
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 10/27/2009
Date Data Arrived at EDR: 11/10/2009
Date Made Active in Reports: 12/09/2009
Number of Days to Update: 29

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 02/11/2010
Next Scheduled EDR Contact: 05/24/2010
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 12/01/2009
Date Made Active in Reports: 12/14/2009
Number of Days to Update: 13

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 02/23/2010
Next Scheduled EDR Contact: 06/07/2010
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 11/03/2009
Date Data Arrived at EDR: 02/12/2010
Date Made Active in Reports: 02/22/2010
Number of Days to Update: 10

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/01/2010
Next Scheduled EDR Contact: 03/15/2010
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 03/31/2009
Date Data Arrived at EDR: 04/09/2009
Date Made Active in Reports: 05/20/2009
Number of Days to Update: 41

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 01/25/2010
Next Scheduled EDR Contact: 05/10/2010
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 07/17/2009
Date Made Active in Reports: 08/10/2009
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/21/2009
Next Scheduled EDR Contact: 04/05/2010
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: PennWell Corporation
Telephone: (800) 823-6277
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 & 2009 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 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

4 WRIGHT STREET
4 WRIGHT STREET
NEW BEDFORD, MA 02740

TARGET PROPERTY COORDINATES

Latitude (North):	41.62440 - 41˚ 37' 27.8''
Longitude (West):	70.9162 - 70˚ 54' 58.3''
Universal Tranverse Mercator:	Zone 19
UTM X (Meters):	340367.2
UTM Y (Meters):	4609635.5
Elevation:	0 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	41070-F8 NEW BEDFORD NORTH, MA
Most Recent Revision:	1979
South Map:	41070-E8 NEW BEDFORD SOUTH, MA
Most Recent Revision:	1977

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 principle 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).

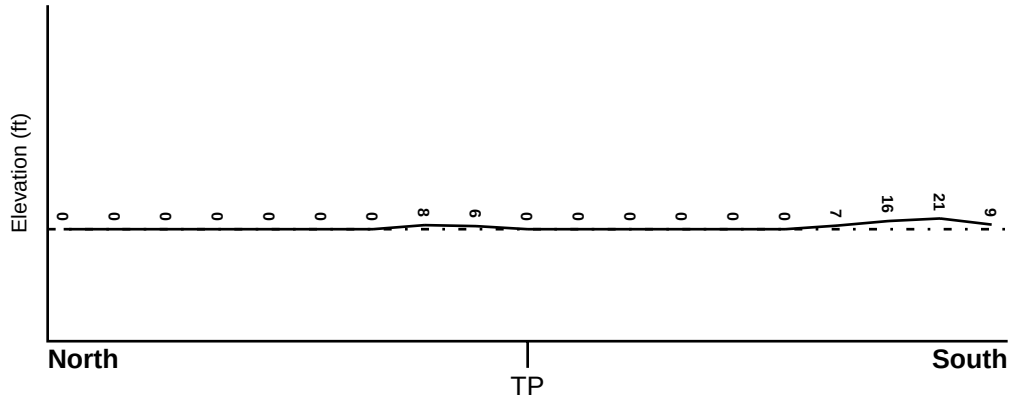
TOPOGRAPHIC INFORMATION

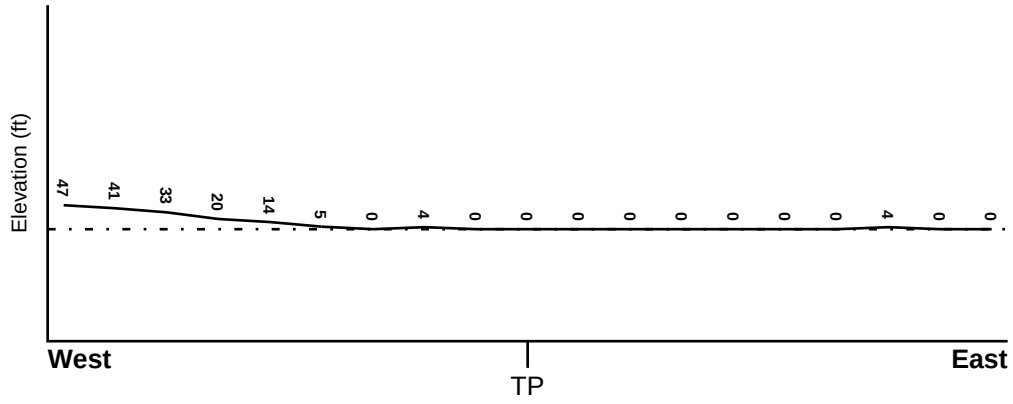
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

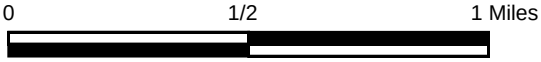
General Topographic Gradient: General East

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 0 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
BRISTOL, MA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 25005C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
NEW BEDFORD SOUTH	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
1	1/8 - 1/4 Mile WSW	VARIES
17	1/2 - 1 Mile NE	VARIES

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:	Precambrian
System:	Precambrian
Series:	Z ganitic rocks
Code:	Zg *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Plutonic and Intrusive Rocks

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 - 2707507.2s

Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME: 4 Wright Street ADDRESS: 4 Wright Street New Bedford MA 02740 LAT/LONG: 41.6244 / 70.9162	CLIENT: APEX Companies LLC CONTACT: Mary Bruno INQUIRY #: 2707507.2s DATE: February 24, 2010 3:13 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: 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: 3

Soil Component Name: Water

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: Partially hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

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 mile
State Database	1.000

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	USGS2055368	1/4 - 1/2 Mile South
A3	USGS2055055	1/4 - 1/2 Mile NNW
5	USGS2055339	1/4 - 1/2 Mile SSW
6	USGS2055186	1/4 - 1/2 Mile WNW
8	USGS2055162	1/2 - 1 Mile WNW
10	USGS2055110	1/2 - 1 Mile NNW
12	USGS2054752	1/2 - 1 Mile NNW
13	USGS2055161	1/2 - 1 Mile West
15	USGS2054990	1/2 - 1 Mile NE
16	USGS2055495	1/2 - 1 Mile South
18	USGS2055494	1/2 - 1 Mile SSE
19	USGS2054174	1/2 - 1 Mile NNE
20	USGS2054897	1/2 - 1 Mile NW
B21	USGS2054175	1/2 - 1 Mile NNW
B22	USGS2054219	1/2 - 1 Mile NNW
23	USGS2054753	1/2 - 1 Mile NW
24	USGS2053888	1/2 - 1 Mile NNW
25	USGS2053997	1/2 - 1 Mile NNW
26	USGS2053801	1/2 - 1 Mile North
27	USGS2054378	1/2 - 1 Mile NNW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A4	MA5000000000167	1/4 - 1/2 Mile NNW
7	MA5000000000140	1/2 - 1 Mile South
14	MA5000000000135	1/2 - 1 Mile SSE

PHYSICAL SETTING SOURCE MAP - 2707507.2s

County Boundary
Major Roads
Contour Lines
Airports
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

Groundwater Flow Direction
Indeterminate Groundwater Flow at Location
Groundwater Flow Varies at Location

Potentially Productive Aquifers
Not Potentially Productive Aquifers
DEP Approved Zone IIs
EPA Designated Sole Src. Aq.

SITE NAME: 4 Wright Street	CLIENT: APEX Companies LLC
ADDRESS: 4 Wright Street New Bedford MA 02740	CONTACT: Mary Bruno INQUIRY #: 2707507.2s
LAT/LONG: 41.6244 / 70.9162	DATE: February 24, 2010 3:13 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
1 **WSW** **1/8 - 1/4 Mile** **Higher**	Site ID: Groundwater Flow: Shallowest Water Table Depth: Deepest Water Table Depth: Date:	4-0000485 VARIES 5.5 7 4/11/1991	**AQUIFLOW**	**5289**

2
South
1/4 - 1/2 Mile
Higher

FED USGS **USGS2055368**

Agency cd:	USGS	Site no:	413709070545801
Site name:	MA-NGW 43		
Latitude:	413709	EDR Site id:	USGS2055368
Longitude:	0705458	Dec lat:	41.6192711
Dec lon:	-70.915593	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	25
State:	25	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	5.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod. Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	BEDROCK		
Well depth:	87.0	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

A3
NNW
1/4 - 1/2 Mile
Higher

FED USGS **USGS2055055**

Agency cd:	USGS	Site no:	413749070551001
Site name:	MA-NGX 16		
Latitude:	413749	EDR Site id:	USGS2055055
Longitude:	0705510	Dec lat:	41.63038194
Dec lon:	-70.9189267	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	25
State:	25	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	10.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod. Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	1948
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	44.0	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1948-05-01	Ground water data end date:	1948-05-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1948-05-01	12.00	

A4
NNW
1/4 - 1/2 Mile
Higher

MA WELLS **MA5000000000167**

Fac id:	130030		
Fac name:	COMMONWEALTH ELECTRIC COMPANY		
Address:	180 MACARTHER DRIVE		
Town:	NEW BEDFORD	Region:	Southeast
Rtn:	Not Reported	Hw id:	MAD002577575
Sw id:	Not Reported	Sseis id:	1200041
Npdes id:	Not Reported	Air:	Not Reported
Gwd:	Not Reported	Hwr:	Not Reported
Lqg ma:	Y	Lqg rcra:	Not Reported
Lqtu:	Not Reported	Tsdf:	Not Reported
Swd:	Not Reported		

Objectid:	0		
Source id:	Not Reported	Site name:	Not Reported
Latitude:	0		
Longitude:	0		
Type:	Not Reported	Zii num:	0
Site id:	MA5000000000167		

Fac id:	130030		
L base:	Digitized on screen from USGS digital topographic quadrangle (DEQ)	Lat/long:	Estimated horizontal accuracy is+/-100 ft (30.5m)
L type:	CB	L meth:	MAP
L src 1:	Locus map based on USGS topographic quadrangle map	L src 2:	Not Reported
L src 3:	Not Reported	L date:	19981105

5
SSW **FED USGS** **USGS2055339**
1/4 - 1/2 Mile
Higher

Agency cd:	USGS	Site no:	413704070550801
Site name:	MA-NGW 59		
Latitude:	413704	EDR Site id:	USGS2055339
Longitude:	0705508	Dec lat:	41.6178822
Dec lon:	-70.9183711	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	25
State:	25	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	10.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod. Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	1947
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	BEDROCK		
Well depth:	200	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1947-01-01	Ground water data end date:	1947-01-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1947-01-01	4.00	

Map ID Direction Distance Elevation	Database	EDR ID Number
6 **WNW** **1/4 - 1/2 Mile** **Higher**	**FED USGS**	**USGS2055186**

Agency cd:	USGS	Site no:	413739070553101
Site name:	MA-NGW 6		
Latitude:	413739	EDR Site id:	USGS2055186
Longitude:	0705531	Dec lat:	41.62760417
Dec lon:	-70.92476028	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	25
State:	25	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	22.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod. Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	1905
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	BEDROCK		
Well depth:	225	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1905-11-01	Ground water data end date:	1905-11-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1905-11-01	10.00	

	Database	EDR ID Number
7 **South** **1/2 - 1 Mile** **Higher**	**MA WELLS**	**MA5000000000140**

Fac id:	119752		
Fac name:	PROGRESSIVE POLYMER		
Address:	91 COVE ST		
Town:	NEW BEDFORD	Region:	Southeast
Rtn:	Not Reported	Hw id:	MV5089927370
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		

Objectid:	0		
Source id:	Not Reported	Site name:	Not Reported
Latitude:	0		
Longitude:	0		
Type:	Not Reported	Zii num:	0
Site id:	MA5000000000140		
Fac id:	119752		
L base:	Digitized on screen using digital orthophoto	L acc:	Estimated horizontal accuracy is +/-16ft (5m)
L type:	CB	L meth:	OTH
L src 1:	KNOW	L src 2:	MassGIS 1:5,000 digital orthophotography
L src 3:	Not Reported	L date:	20021022

8
WNW
1/2 - 1 Mile
Higher

FED USGS **USGS2055162**

Agency cd:	USGS	Site no:	413735070554201
Site name:	MA-NGW 21		
Latitude:	413735	EDR Site id:	USGS2055162
Longitude:	0705542	Dec lat:	41.62649306
Dec lon:	-70.9278158	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	25
State:	25	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	40.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod. Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	1925
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	146	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

9
WNW
1/2 - 1 Mile
Higher

AQUIFLOW **5284**

Site ID:	4-0000119
Groundwater Flow:	NOT REPORTED
Shallowest Water Table Depth:	7.1
Deepest Water Table Depth:	8.4
Date:	10/10/1985

Map ID Direction Distance Elevation		Database	EDR ID Number
10 **NNW** **1/2 - 1 Mile** **Higher**		**FED USGS**	**USGS2055110**

Agency cd:	USGS	Site no:	413759070552601
Site name:	MA-NGW 20		
Latitude:	413759	EDR Site id:	USGS2055110
Longitude:	0705526	Dec lat:	41.6331597
Dec lon:	-70.92337139	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	25
State:	25	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	21.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod. Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	1900
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	BEDROCK		
Well depth:	200	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

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11 **WSW** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallowest Water Table Depth: Deepest Water Table Depth: Date:	4-0000688 Not Reported 6.64 15.63 6/11/1992	**AQUIFLOW**	**5288**

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12 **NNW** **1/2 - 1 Mile** **Higher**		**FED USGS**	**USGS2054752**

Agency cd:	USGS	Site no:	413807070551901
Site name:	MA-NGW 19		
Latitude:	413807	EDR Site id:	USGS2054752
Longitude:	0705519	Dec lat:	41.63538194
Dec lon:	-70.9214269	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	25
State:	25	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	5.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod. Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	14.0	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

13
West
1/2 - 1 Mile
Higher

FED USGS **USGS2055161**

Agency cd:	USGS	Site no:	413734070555601
Site name:	MA-NGX 19		
Latitude:	413734	EDR Site id:	USGS2055161
Longitude:	0705556	Dec lat:	41.62621528
Dec lon:	-70.9317047	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	25
State:	25	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	54.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod. Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	1967
Date inventoried:	Not Reported	Mean greenwich time offset:	EST

Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	8.0	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1967-06-01	Ground water data end date:	1967-06-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1967-06-01	4.00	

14
SSE **MA WELLS** **MA5000000000135**
1/2 - 1 Mile
Higher

Fac id:	130038		
Fac name:	CORNELL DUBILIER CO		
Address:	1605 EAST RODNEY FRENCH BLVD		
Town:	NEW BEDFORD	Region:	Southeast
Rtn:	Not Reported	Hw id:	MAD001028745
Sw id:	Not Reported	Sseis id:	1200142
Npdes id:	MA0003930	Air:	Not Reported
Gwd:	Not Reported	Hwr:	Not Reported
Lqg ma:	Not Reported	Lqg rcra:	Not Reported
Lqtu:	Not Reported	Tsdf:	Not Reported
Swd:	Y		
Objectid:	0		
Source id:	Not Reported	Site name:	Not Reported
Latitude:	0		
Longitude:	0		
Type:	Not Reported	Zii num:	0
Site id:	MA5000000000135		

Fac id:	130038		
L base:	Digitized on screen from USGS digital topographic quadrangle (DLG)	Loc acc:	Estimated horizontal accuracy is+/-1000 ft (305m)
L type:	CB	L meth:	OTH
L src 1:	KNOW	L src 2:	Not Reported
L src 3:	Not Reported	L date:	19981105

15
NE **FED USGS** **USGS2054990**
1/2 - 1 Mile
Higher

Agency cd:	USGS	Site no:	413801070542301
Site name:	MA-FHX 22		
Latitude:	413801	EDR Site id:	USGS2054990
Longitude:	0705423	Dec lat:	41.63371556
Dec lon:	-70.9058708	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	25
State:	25	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	6.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod. Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	1950
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	25.0	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1950-01-01	Ground water data end date:	1950-01-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1950-01-01	4.00	

16
South
1/2 - 1 Mile
Higher

FED USGS **USGS2055495**

Agency cd:	USGS	Site no:	413642070550701
Site name:	MA-NGX 17		
Latitude:	413642	EDR Site id:	USGS2055495
Longitude:	0705507	Dec lat:	41.6117711
Dec lon:	-70.918093	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	25
State:	25	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	15.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod. Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	1967
Date inventoried:	Not Reported	Mean greenwich time offset:	EST

Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	8.0	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1967-06-01	Ground water data end date:	1967-06-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1967-06-01	4.00	

17
NE
1/2 - 1 Mile
Higher

Site ID:	4-0000785	
Groundwater Flow:	VARIES	
Shallowest Water Table Depth:	6.4	
Deepest Water Table Depth:	7.9	
Date:	8/15/1989	

AQUIFLOW **5267**

18
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS2055494**

Agency cd:	USGS	Site no:	413642070544501
Site name:	MA-NGX 20		
Latitude:	413642	EDR Site id:	USGS2055494
Longitude:	0705445	Dec lat:	41.6117711
Dec lon:	-70.9119819	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	25
State:	25	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	23.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod. Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	1967
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	8.0	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1967-06-01	Ground water data end date:	1967-06-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1967-06-01	4.00	

19
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS2054174**

Agency cd:	USGS	Site no:	413812070544001
Site name:	MA-FHW 46		
Latitude:	413812	EDR Site id:	USGS2054174
Longitude:	0705440	Dec lat:	41.6367708
Dec lon:	-70.9105933	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	25
State:	25	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	5.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod. Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Stream channel		
Site type:	Ground-water other than Spring	Date construction:	1946
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	80.0	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1946-01-01	Ground water data end date:	1946-01-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1946-01-01	5.00	

20
NW
1/2 - 1 Mile
Higher

FED USGS **USGS2054897**

Agency cd:	USGS	Site no:	413804070554001
Site name:	MA-NGW 2		
Latitude:	413804	EDR Site id:	USGS2054897
Longitude:	0705540	Dec lat:	41.6345486
Dec lon:	-70.92726028	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	25
State:	25	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	70.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod. Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	1937
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	BEDROCK		
Well depth:	200	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

B21
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS2054175**

Agency cd:	USGS	Site no:	413812070552201
Site name:	MA-NGX 13		
Latitude:	413812	EDR Site id:	USGS2054175
Longitude:	0705522	Dec lat:	41.6367708
Dec lon:	-70.92226028	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	25
State:	25	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	5.00		
Altitude method:	Level or other surveying method		
Altitude accuracy:	.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod. Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	1945
Date inventoried:	Not Reported	Mean greenwich time offset:	EST

Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	26.0	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

B22
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS2054219**

Agency cd:	USGS	Site no:	413813070552001
Site name:	MA-NGX 14		
Latitude:	413813	EDR Site id:	USGS2054219
Longitude:	0705520	Dec lat:	41.6370486
Dec lon:	-70.9217047	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	25
State:	25	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	4.00		
Altitude method:	Level or other surveying method		
Altitude accuracy:	.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod. Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	1945
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	26.0	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

Map ID Direction Distance Elevation	Database	EDR ID Number
23 **NW** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS2054753**

Agency cd:	USGS	Site no:	413807070554301
Site name:	MA-NGW 1		
Latitude:	413807	EDR Site id:	USGS2054753
Longitude:	0705543	Dec lat:	41.63538194
Dec lon:	-70.9280936	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	25
State:	25	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	75.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod. Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	1908
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	357	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

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24 **NNW** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS2053888**

Agency cd:	USGS	Site no:	413816070552101
Site name:	MA-NGR 49		
Latitude:	413816	EDR Site id:	USGS2053888
Longitude:	0705521	Dec lat:	41.63788194
Dec lon:	-70.9219825	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	25
State:	25	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported

Altitude:	6.00		
Altitude method:	Level or other surveying method		
Altitude accuracy:	.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod. Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	1969
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	28.0	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

25
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS2053997**

Agency cd:	USGS	Site no:	413814070552801
Site name:	MA-NGB 17		
Latitude:	413814	EDR Site id:	USGS2053997
Longitude:	0705528	Dec lat:	41.63732639
Dec lon:	-70.9239269	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	25
State:	25	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	18.00		
Altitude method:	Level or other surveying method		
Altitude accuracy:	.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod. Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	1972
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	22.0	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1972-03-01	Ground water data end date:	1972-03-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1972-03-01	12.00	

26
North
1/2 - 1 Mile
Higher

FED USGS **USGS2053801**

Agency cd:	USGS	Site no:	413818070551001
Site name:	MA-NGB 33		
Latitude:	413818	EDR Site id:	USGS2053801
Longitude:	0705510	Dec lat:	41.6384375
Dec lon:	-70.9189269	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	25
State:	25	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	7.00		
Altitude method:	Level or other surveying method		
Altitude accuracy:	.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod. Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	1969
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	60.0	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

27
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS2054378**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	413811070553701
Site name:	MA-NGW 3		
Latitude:	413811	EDR Site id:	USGS2054378
Longitude:	0705537	Dec lat:	41.63649306
Dec lon:	-70.9264269	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	25
State:	25	County:	005
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	56.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Cape Cod. Massachusetts, Rhode Island. Area = 2220 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	1915
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	200	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1948-05-01	Ground water data end date:	1948-05-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1948-05-01	12.00	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: MA Radon

Radon Test Results

County	% of sites>4 pCi/L	Median
BRISTOL	23	1.8

Federal EPA Radon Zone for BRISTOL County: 2

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: 02740

Number of sites tested: 7

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	0.500 pCi/L	100%	0%	0%
Basement	2.743 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.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2009 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 and 2005 from the U.S. Fish and Wildlife Service.

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 Services
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 Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, 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

STREET AND ADDRESS INFORMATION

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4 Wright Street
4 Wright Street
New Bedford, MA 02740

Inquiry Number: 2707507.4
February 25, 2010

The EDR Historical Topographic Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

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

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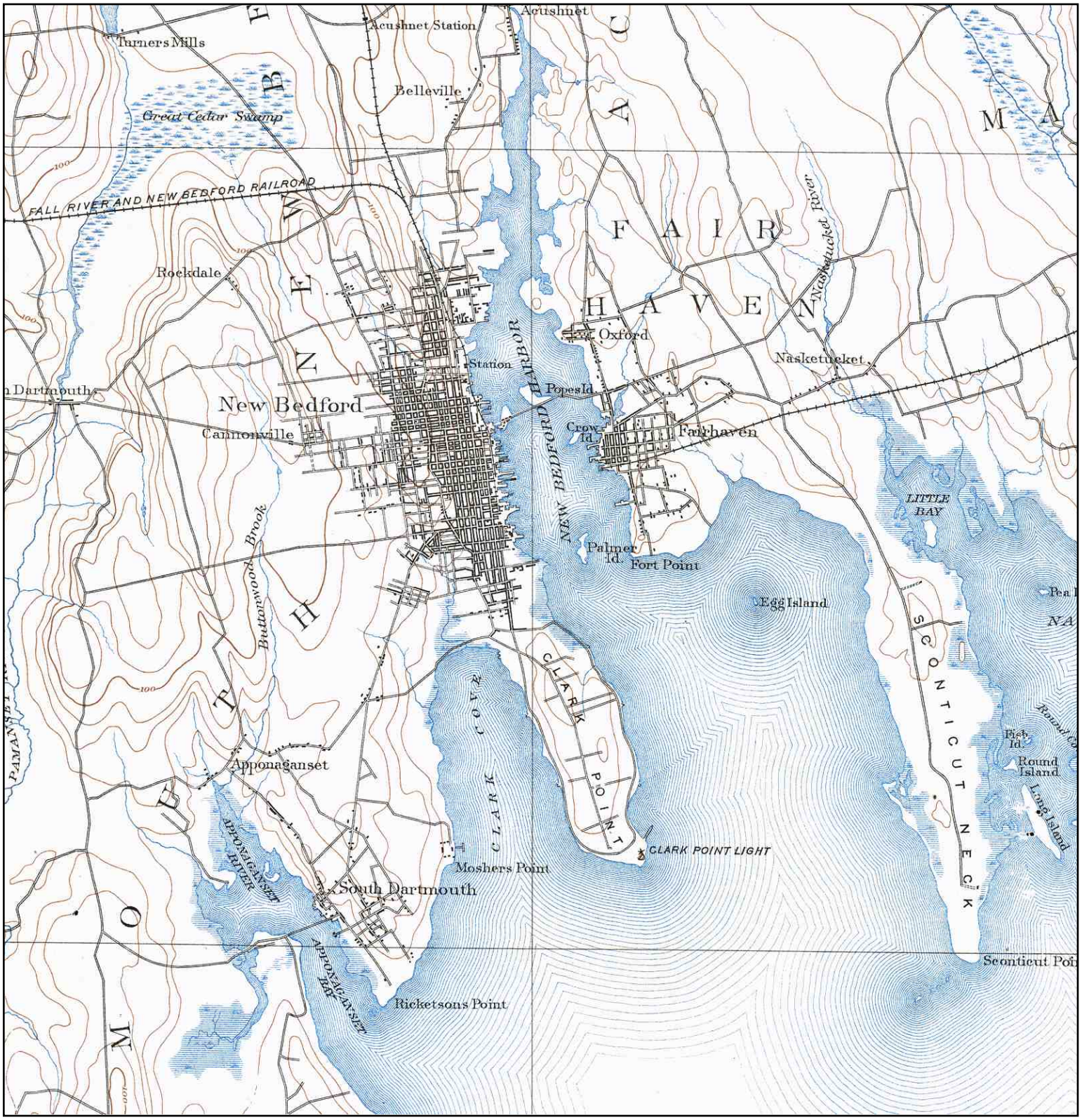
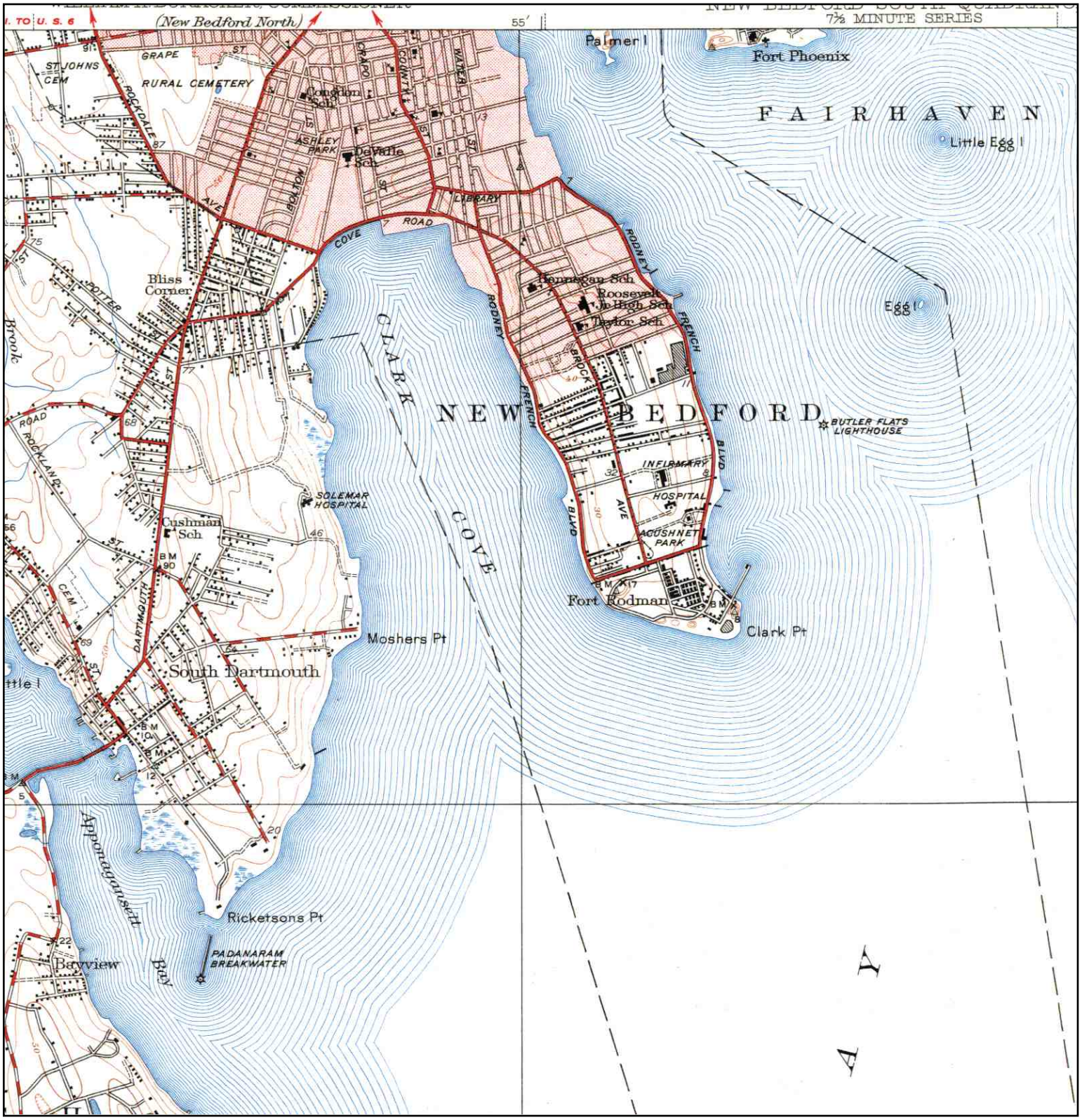
Historical Topographic Map



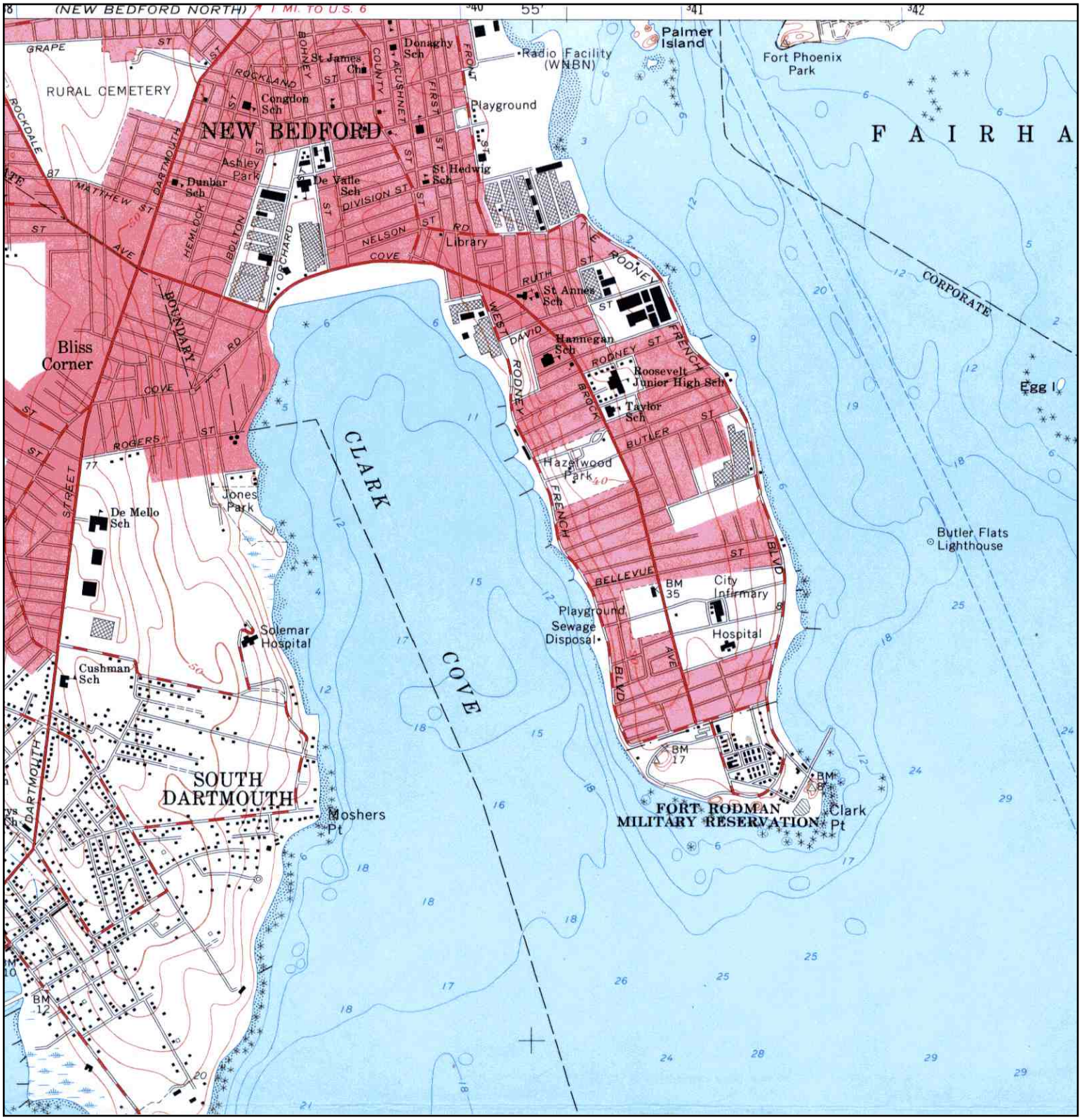
N	TARGET QUAD NAME: NEW BEDFORD MAP YEAR: 1893 SERIES: 15 SCALE: 1:62500	SITE NAME: 4 Wright Street ADDRESS: 4 Wright Street New Bedford, MA 02740 LAT/LONG: 41.6244 / 70.9162	CLIENT: APEX Companies LLC CONTACT: Mary Bruno INQUIRY#: 2707507.4 RESEARCH DATE: 02/25/2010

Historical Topographic Map



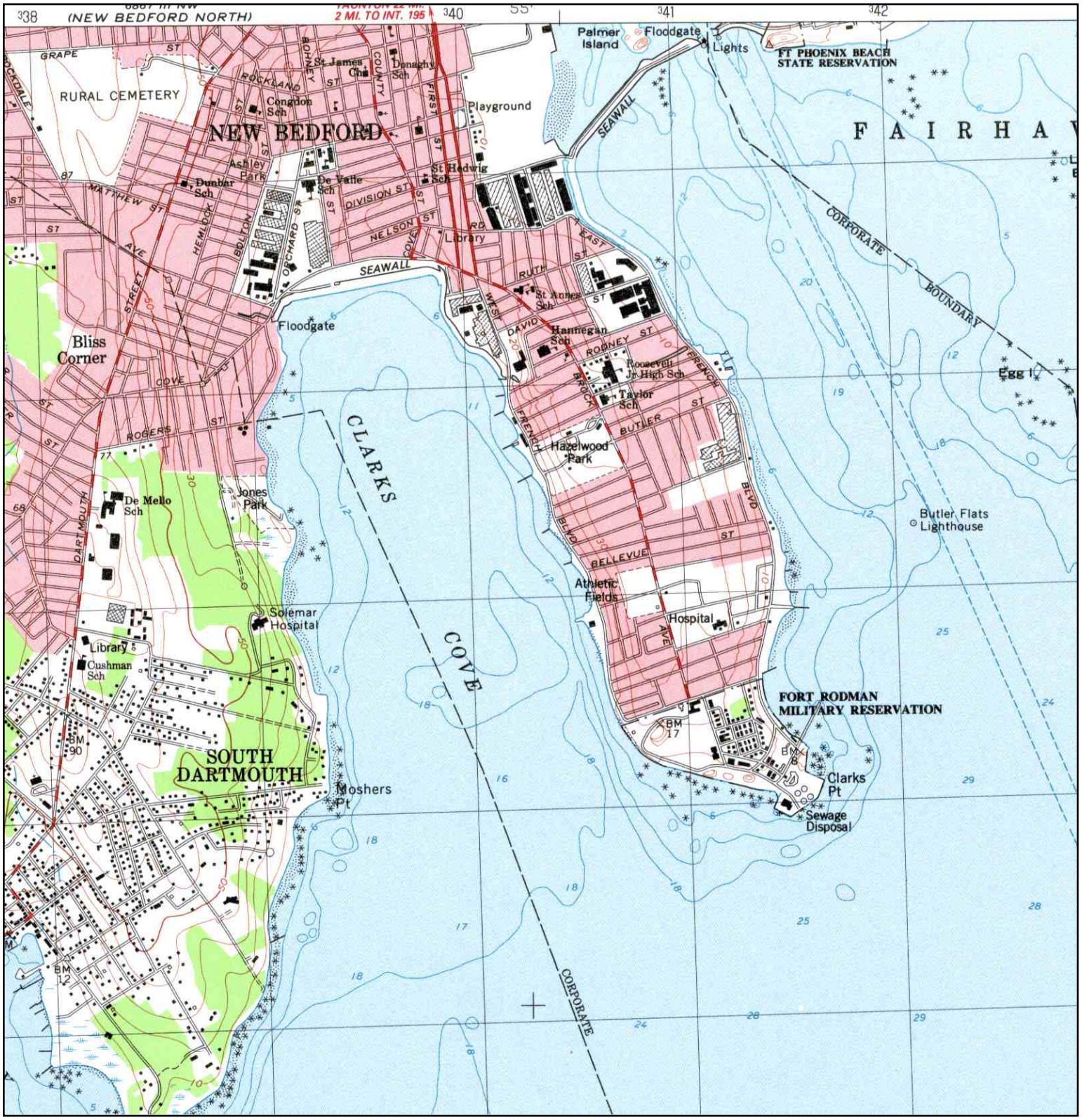
N	TARGET QUAD NAME: NEW BEDFORD SOUTH MAP YEAR: 1949 REVISED FROM:1941 SERIES: 7.5 SCALE: 1:31680	SITE NAME: 4 Wright Street ADDRESS: 4 Wright Street New Bedford, MA 02740 LAT/LONG: 41.6244 / 70.9162	CLIENT: APEX Companies LLC CONTACT: Mary Bruno INQUIRY#: 2707507.4 RESEARCH DATE: 02/25/2010

Historical Topographic Map



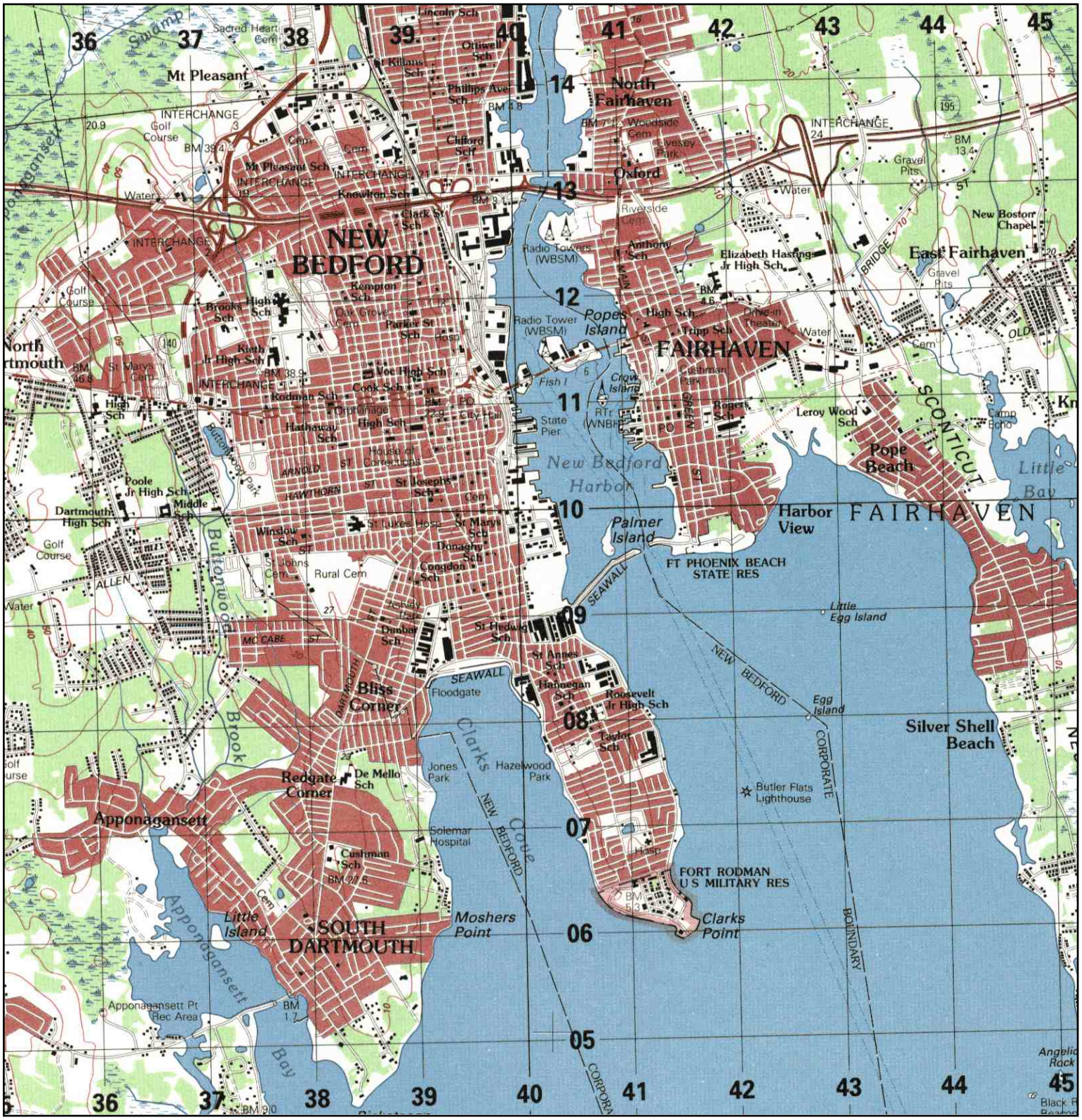
N	TARGET QUAD NAME: NEW BEDFORD SOUTH MAP YEAR: 1963 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 4 Wright Street ADDRESS: 4 Wright Street New Bedford, MA 02740 LAT/LONG: 41.6244 / 70.9162	CLIENT: APEX Companies LLC CONTACT: Mary Bruno INQUIRY#: 2707507.4 RESEARCH DATE: 02/25/2010

Historical Topographic Map



N	TARGET QUAD NAME: NEW BEDFORD SOUTH MAP YEAR: 1977 SERIES: 7.5 SCALE: 1:25000	SITE NAME: 4 Wright Street ADDRESS: 4 Wright Street New Bedford, MA 02740 LAT/LONG: 41.6244 / 70.9162	CLIENT: APEX Companies LLC CONTACT: Mary Bruno INQUIRY#: 2707507.4 RESEARCH DATE: 02/25/2010

Historical Topographic Map



N	TARGET QUAD NAME: NEW BEDFORD MAP YEAR: 1985 SERIES: 15 SCALE: 1:50000	SITE NAME: 4 Wright Street ADDRESS: 4 Wright Street New Bedford, MA 02740 LAT/LONG: 41.6244 / 70.9162	CLIENT: APEX Companies LLC CONTACT: Mary Bruno INQUIRY#: 2707507.4 RESEARCH DATE: 02/25/2010

4 Wright Street
4 Wright Street
New Bedford, MA 02740

Inquiry Number: 2707507.3
February 26, 2010

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

2/26/10

Site Name:
4 Wright Street
4 Wright Street
New Bedford, MA 02740

EDR Inquiry # 2707507.3

Client Name:
APEX Companies LLC
115 Broad Street
Boston, MA 02210

Contact: Mary Bruno

EDR® Environmental Data Resources Inc

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Certified Sanborn Results:

Site Name: 4 Wright Street
Address: 4 Wright Street
City, State, Zip: New Bedford, MA 02740
Cross Street:
P.O. # NA
Project: NA
Certification # 31EA-4A7F-9832

Maps Provided:

1995
1993
1992
1990

Sanborn® Library search results
Certification # 31EA-4A7F-9832

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

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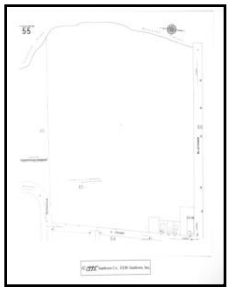
Sanborn Sheet Thumbnails

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

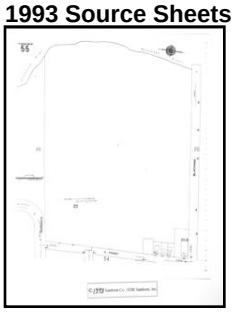
1995 Source Sheets

Volume 1, Sheet 49



Volume 1, Sheet 55

1993 Source Sheets

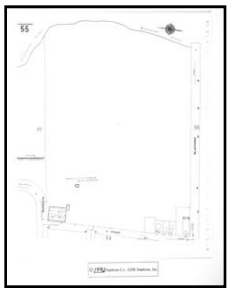


Volume 1, Sheet 55

Volume 1, Sheet 49

1992 Source Sheets

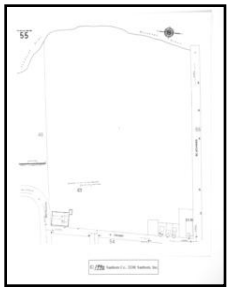
Volume 1, Sheet 49



Volume 1, Sheet 55

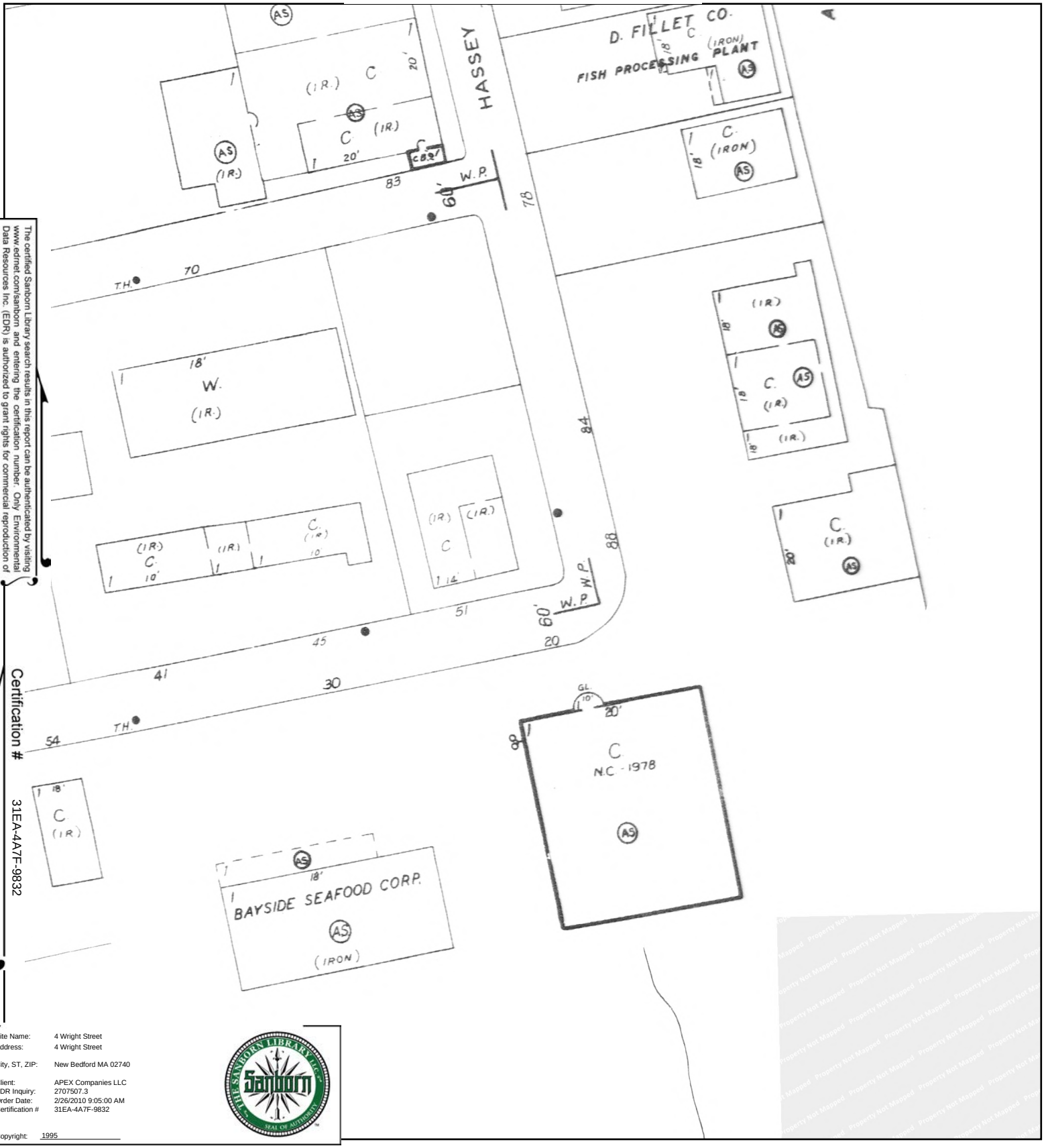
1990 Source Sheets

Volume 1, Sheet 49



Volume 1, Sheet 55

1995 Certified Sanborn Map



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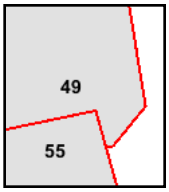
Certification # 31EA-4A7F-9832

Site Name:	4 Wright Street
Address:	4 Wright Street
City, ST, ZIP:	New Bedford MA 02740
Client:	APEX Companies LLC
EDR Inquiry:	2707507.3
Order Date:	2/26/2010 9:05:00 AM
Certification #	31EA-4A7F-9832
Copyright:	1995

This Certified Sanborn Map combines the following sheets (thumbnails on page 3).

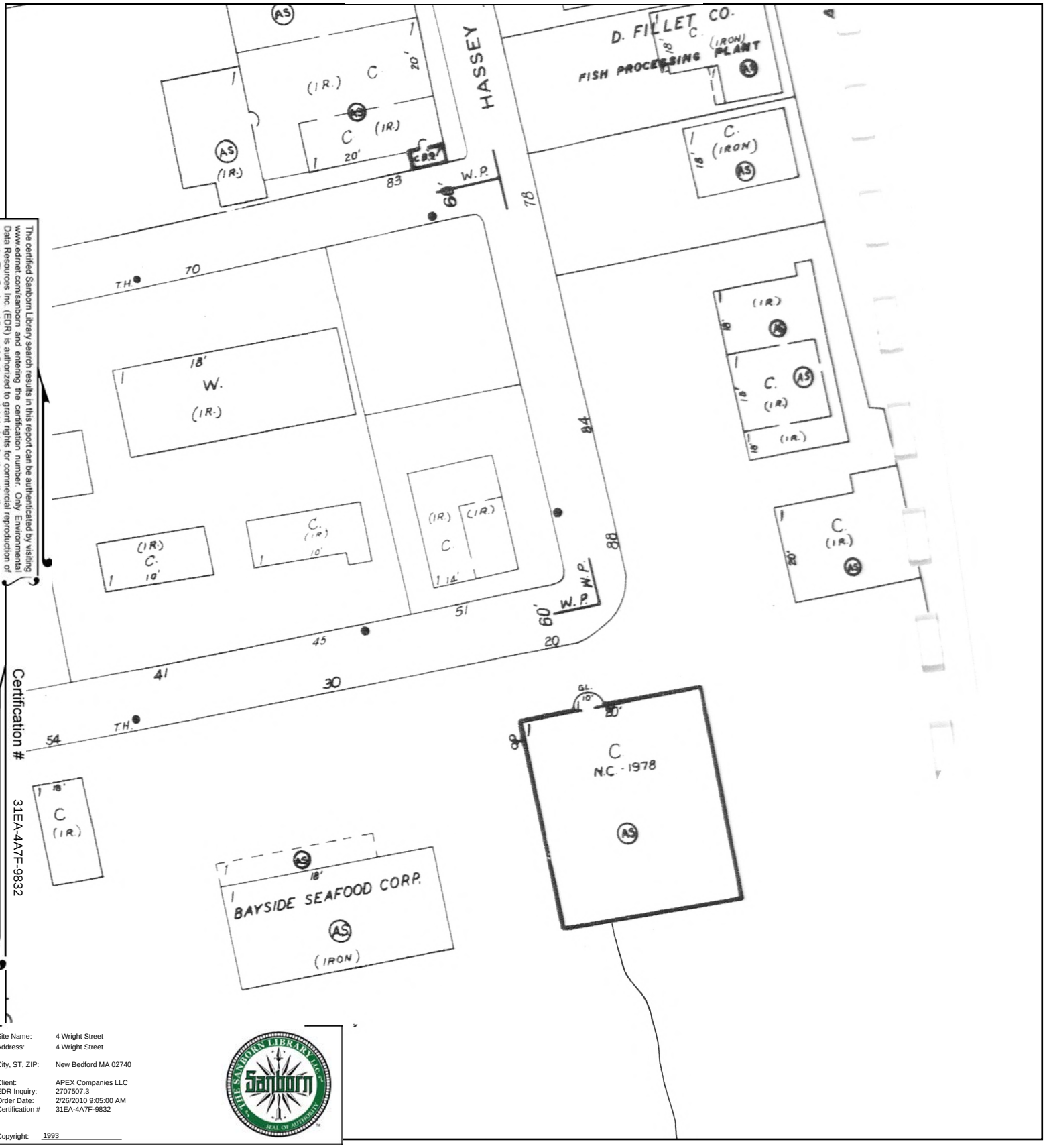
0 Feet 150 300 600



Volume 1, Sheet 49
Volume 1, Sheet 55

N

1993 Certified Sanborn Map



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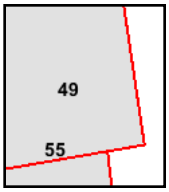
Copyright: 1993

This Certified Sanborn Map combines the following sheets (thumbnails on page 3).

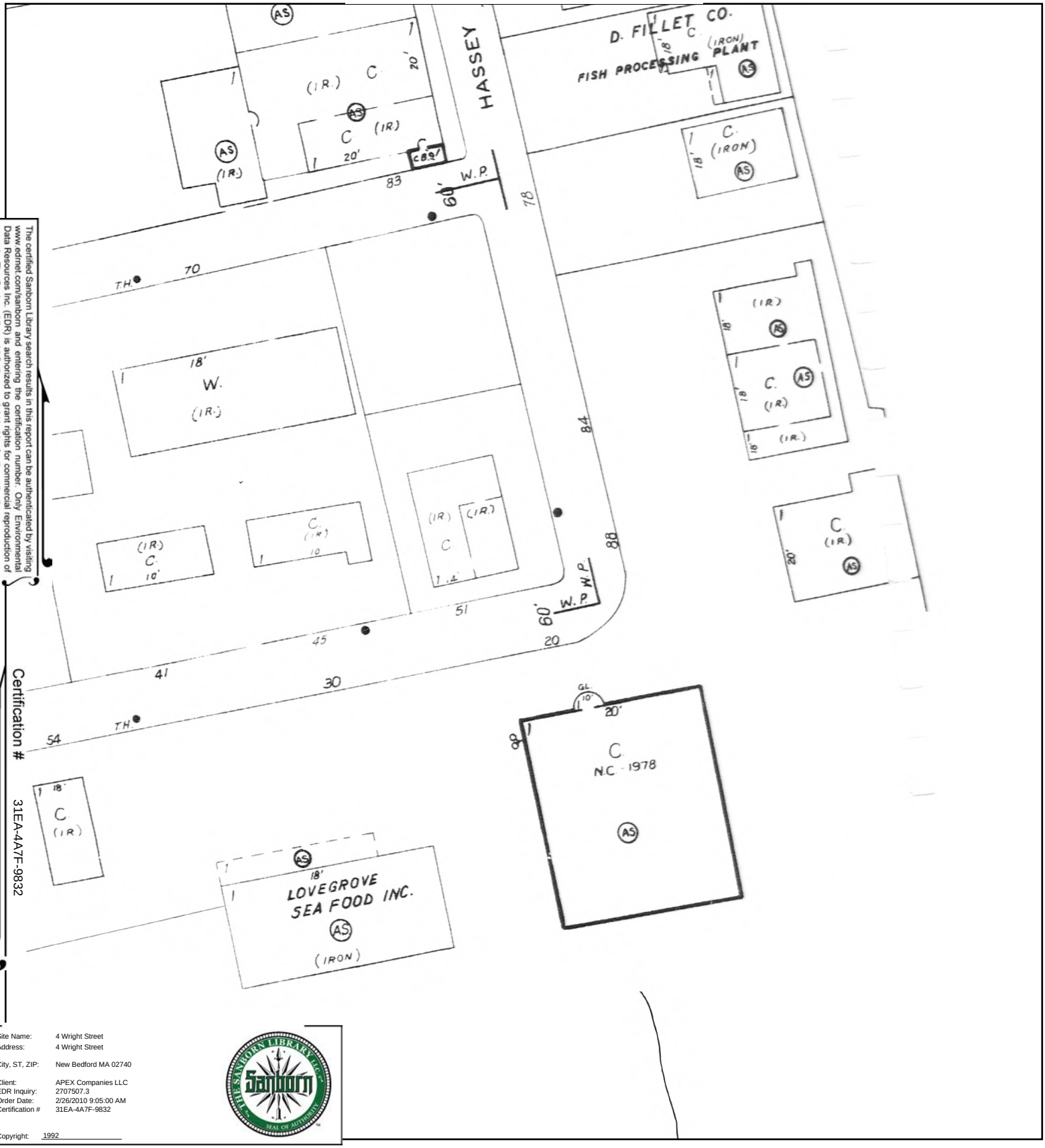
0 Feet 150 300 600



Volume 1, Sheet 55
Volume 1, Sheet 49

N

1992 Certified Sanborn Map



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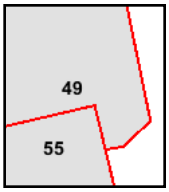
Order Date:	2/26/2010 9:05:00 AM
Certification #	31EA-4A7F-9832

Copyright: 1992

This Certified Sanborn Map combines the following sheets (thumbnails on page 3).

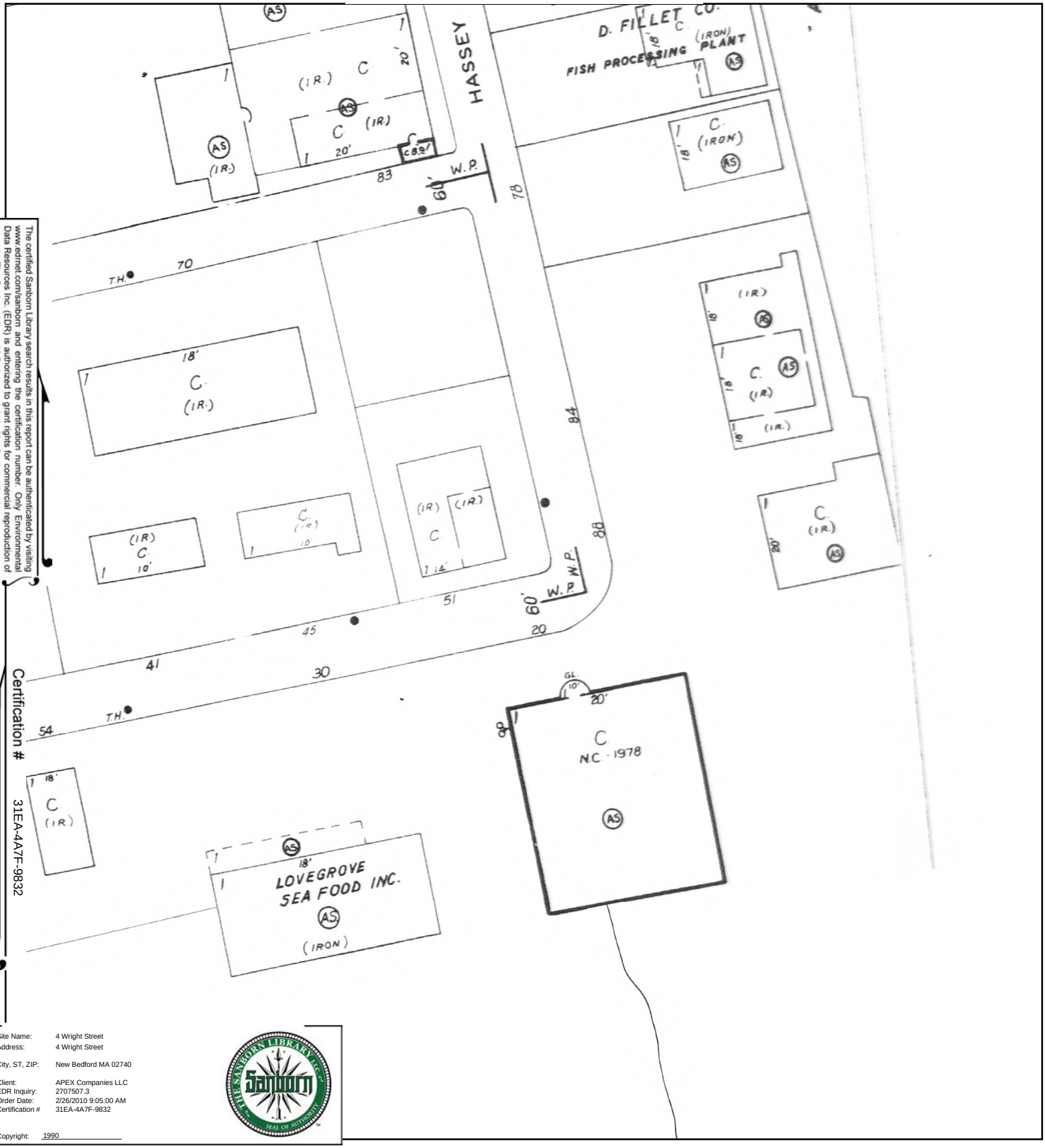
0 Feet 150 300 600



Volume 1, Sheet 49
Volume 1, Sheet 55

N

1990 Certified Sanborn Map



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Site Name:	4 Wright Street
Address:	4 Wright Street
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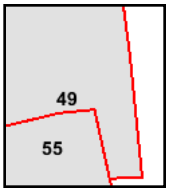
EDR Inquiry:	2707507.3
Order Date:	2/26/2010 9:05:00 AM
Certification #	31EA-4A7F-9832

Copyright: 1990

This Certified Sanborn Map combines the following sheets (thumbnails on page 3).

0 Feet 150 300 600



Volume 1, Sheet 49
Volume 1, Sheet 55

N

4 Wright Street

4 Wright Street
New Bedford, MA 02740

Inquiry Number: 2707507.6
February 25, 2010

The EDR-City Directory Abstract

Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

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Executive Summary

Findings

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Please contact EDR at 1-800-352-0050
with any questions or comments.

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2009 Enhancements to EDR City Directory Abstract

New for 2009, the EDR City Directory Abstract has been enhanced with additional information and features. These enhancements will make your city directory research process more efficient, flexible, and insightful than ever before. The enhancements will improve the options for selecting adjoining properties, and will speed up your review of the report.

City Directory Report. Three important enhancements have been made to the EDR City Directory Abstract:

1. *Executive Summary.* The report begins with an Executive Summary that lists the sources consulted in the preparation of the report. Where available, a parcel map is also provided within the report, showing the locations of properties researched.

2. *Page Images.* Where available, the actual page source images will be included in the Appendix, so that you can review them for information that may provide additional insight. EDR has copyright permission to include these images.

3. *Findings Listed by Location.* Another useful enhancement is that findings are now grouped by address. This will significantly reduce the time you need to review your abstracts. Findings are provided under each property address, listed in reverse chronological order and referencing the source for each entry.

Options for Selecting Adjoining Properties. Ensuring that the right adjoining property addresses are searched is one of the biggest challenges that environmental professionals face when conducting city directory historical research. EDR's new enhancements make it easier for you to meet this challenge. Now, when you place an order for the EDR City Directory Abstract, you have the following choices for determining which addresses should be researched.

1. *You Select Addresses and EDR Selects Addresses.* Use the "Add Another Address" feature to specify the addresses you want researched. Your selections will be supplemented by addresses selected by EDR researchers using our established research methods. Where available, a digital map will be shown, indicating property lines overlaid on a color aerial photo and their corresponding addresses. Simply use the address list below the map to check off which properties shown on the map you want to include. You may also select other addresses using the "Add Another Address" feature at the bottom of the list.

2. *EDR Selects Addresses.* Choose this method if you want EDR's researchers to select the addresses to be researched for you, using our established research methods.

3. *You Select Addresses.* Use this method for research based solely on the addresses you select or enter into the system.

4. *Hold City Directory Research Option.* If you choose to select your own adjoining addresses, you may pause production of your EDR City Directory Abstract report until you have had a chance to look at your other EDR reports and sources. Sources for property addresses include: your Certified Sanborn Map Report may show you the location of property addresses; the new EDR Property Tax Map Report may show the location of property addresses; and your field research can supplement these sources with additional address information. To use this capability, simply click "Hold City Directory research" box under "Other Options" at the bottom of the page. Once you have determined what addresses you want researched, go to your EDR Order Status page, select the EDR City Directory Abstract, and enter the addresses and submit for production.

Questions? Contact your EDR representative at 800-352-0050. For more information about all of EDR's 2009 report and service enhancements, visit www.edrnet.com/2009enhancements

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2008	Cole Criss-Cross Directory	X	X	X	-
1997	Cole Criss-Cross Directory	X	X	X	-
1990	Cole Criss-Cross Directory	X	X	X	-
1985	Cole Criss-Cross Directory	X	X	X	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

4 Wright Street
New Bedford, MA 02740

FINDINGS DETAIL

Target Property research detail.

Year	*Uses*	*Source*
2008	Shuster Corp	Cole Criss-Cross Directory
1997	Shuster Corp	Cole Criss-Cross Directory
1990	J&M Shellfish Inc	Cole Criss-Cross Directory
	Shuster Corp	Cole Criss-Cross Directory
1985	Marquest Corp	Cole Criss-Cross Directory
	Shuster Corp	Cole Criss-Cross Directory

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

Wright Street

Wright Street

Year	Uses	Source
2008	No address listings prior to the Target Property	Cole Criss-Cross Directory
1997	No address listings prior to the Target Property	Cole Criss-Cross Directory
1990	No address listings prior to the Target Property	Cole Criss-Cross Directory
1985	No address listings prior to the Target Property	Cole Criss-Cross Directory

18 Wright Street

Year	Uses	Source
2008	Qualiy Custom Packaging	Cole Criss-Cross Directory
1997	Bay Side Seafd Crp	Cole Criss-Cross Directory
1990	Lovegrove Seafood	Cole Criss-Cross Directory

25 Wright Street

Year	Uses	Source
2008	Fair Tide Shellfish Ltd	Cole Criss-Cross Directory
	US Seafood Adventures Ltd	Cole Criss-Cross Directory
1997	Imperl Fllt Co Inc	Cole Criss-Cross Directory
1990	New England Salted	Cole Criss-Cross Directory
	Salty Cod Fish Mkt	Cole Criss-Cross Directory
1985	New England Salted	Cole Criss-Cross Directory
	Pacheco Seafoods	Cole Criss-Cross Directory

33 Wright Street

Year	Uses	Source
2008	L J Fisheries Inc	Cole Criss-Cross Directory
1997	J G Seafood Co Inc	Cole Criss-Cross Directory
	Sea FrshNew Bdfrd	Cole Criss-Cross Directory
	Sea Max	Cole Criss-Cross Directory

FINDINGS

ADJOINING PROPERTY: ADDRESSES NOT LISTED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not listed in research source.

Address Researched	Address Not Listed in Research Source
18 Wright Street	1985
33 Wright Street	1990, 1985

4 Wright Street
4 Wright Street
New Bedford, MA 02740

Inquiry Number: 2707507.5
February 26, 2010

The EDR Aerial Photo Decade Package

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDRs professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Date EDR Searched Historical Sources:

Aerial Photography February 26, 2010

Target Property:

4 Wright Street

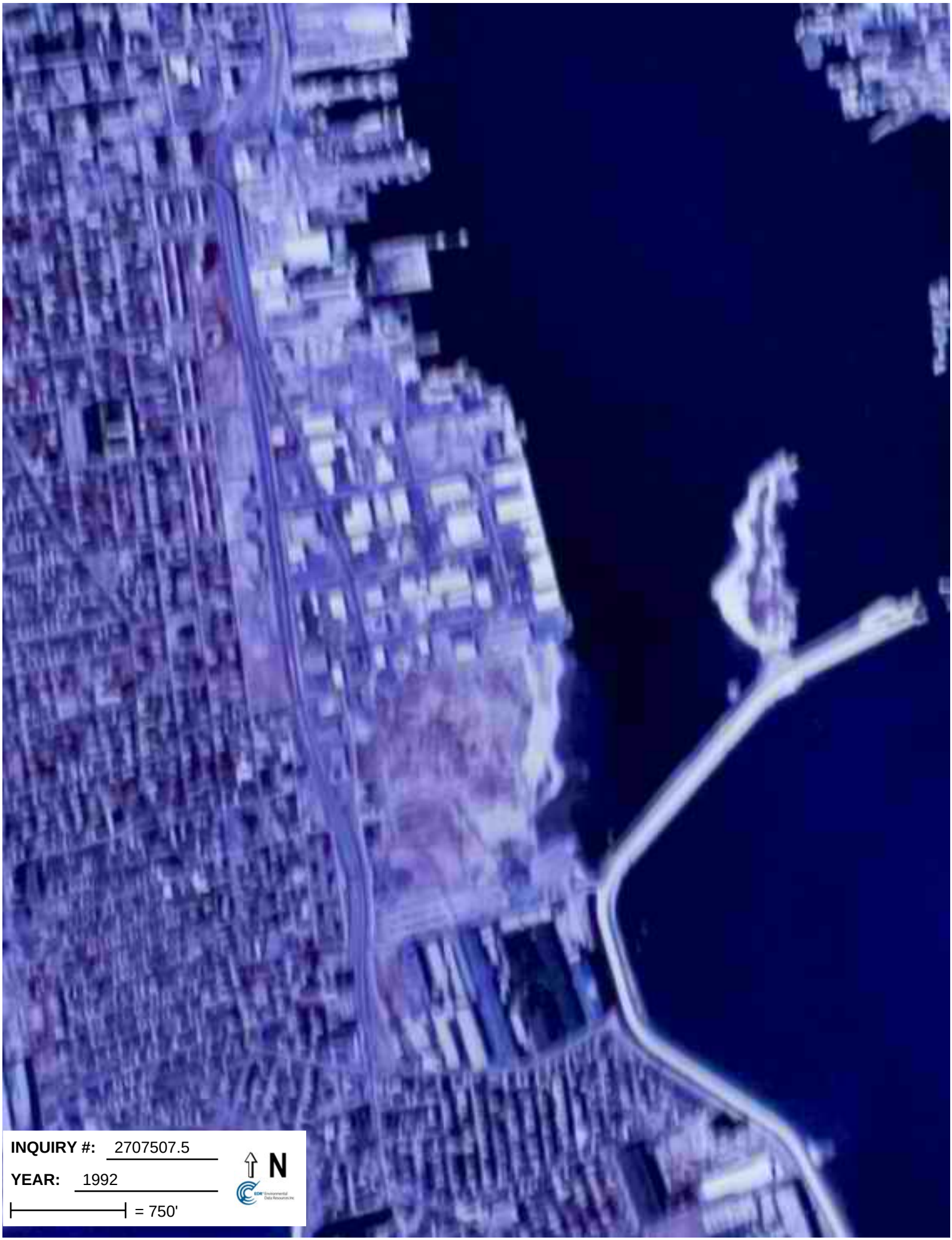
New Bedford, MA 02740

Year	***Scale***	***Details***	***Source***
1961	Aerial Photograph. Scale: 1"=500'	Panel #: 2441070-E8/Flight Date: May 01, 1961	EDR
1974	Aerial Photograph. Scale: 1"=500'	Panel #: 2441070-E8/Flight Date: March 27, 1974	EDR
1985	Aerial Photograph. Scale: 1"=1000'	Panel #: 2441070-E8/Flight Date: March 26, 1985	EDR
1992	Aerial Photograph. Scale: 1"=750'	Panel #: 2441070-E8/Flight Date: March 18, 1992	EDR
1995	Aerial Photograph. Scale: 1"=750'	Panel #: 2441070-E8/Flight Date: March 29, 1995	EDR

GS-
INQUIRY #: 2707507.5
YEAR: 1961
= 500'
N

INQUIRY #: 2707507.5
YEAR: 1974
= 500'
N

INQUIRY #: 2707507.5
YEAR: 1985
= 1000'
N


INQUIRY #: 2707507.5
YEAR: 1992
= 750'
N

INQUIRY #: 2707507.5
YEAR: 1995
= 750'
N

APPENDIX E

"Linking Technology with Tradition"®

Sanborn® Map Report

Ship To: Neeta Satam
TRC Environmental
116 John Street
Lowell, MA 01852

Order Date: 1/3/2006 **Completion Date:** 1/5/2006
Inquiry #: 1585256.1s
P.O. #: na
Site Name: Standard Times Field Property
Address: Blackmer/Front/Gifford
City/State: New Bedford, MA 02744
Cross Streets:

Customer Project: na
1151165PVC 978-656-3693

Based on client-supplied information, fire insurance maps for the following years were identified

1888 - 1 Map
1893 - 1 Map
1906 - 2 Maps
1924 - 2 Maps
1950 - 2 Maps
1990 - 2 Maps
1992 - 2 Maps
1993 - 2 Maps
1995 - 2 Maps

Limited Permission to Photocopy Total Maps: 16

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USER'S GUIDE

This User's Guide provides guidelines for accessing Sanborn Map® images and for transferring them to your Word Processor.

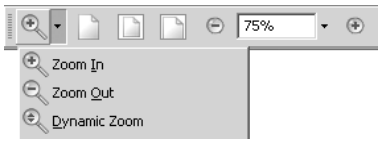
Reading Sanborn Maps

- Sanborn Maps document historical property use by displaying property information through words, abbreviations, and map symbols. The Sanborn Map Key provides information to help interpret the symbols and abbreviations used on Sanborn Maps. The Key is available from EDR's Web Site at: http://www.edrnet.com/reports/samples/key.pdf

Organization of Electronic Sanborn Image File

- Sanborn Map Report, listing years of coverage
- User's Guide
- Oldest Sanborn Map Image
- Most recent Sanborn Map Image

Navigating the Electronic Sanborn Image File

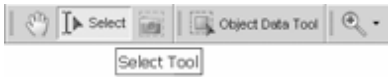


1. Open file on screen.
2. Identify TP (Target Property) on the most recent map.
3. Find TP on older printed images.
4. Using Acrobat® Reader®, zoom to 250% in order to view more clearly. (200-250% is the approximate equivalent scale of hardcopy Sanborn Maps.)
   A. On the menu bar, click "View" and then "Zoom to..."
   B. Or, use the magnifying tool and drag a box around the TP

Printing a Sanborn Map From the Electonic File

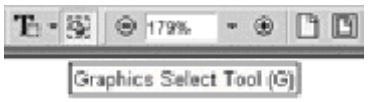
- EDR recommends printing images at 300 dpi (300 dpi prints faster than 600 dpi)
- To print only the TP area, cut and paste from Acrobat to your word processor application.

<u>Acrobat Versions 6 and 7</u>



1. Go to the menu bar
2. Click the "Select Tool"
3. Draw a box around the area selected
4. "Right click" on your mouse
5. Select "Copy Image to Clipboard"
6. Go to Word Processor such as Microsoft Word, paste and print.

<u>Acrobat Version 5</u>



1. Go to the menu bar
2. Click the "Graphics Select Tool"
3. Draw a box around the area selected
4. Go to "Menu"
5. Highlight "Edit"
6. Highlight "Copy"
7. Go to Word Processor such as Microsoft Word, paste and print.

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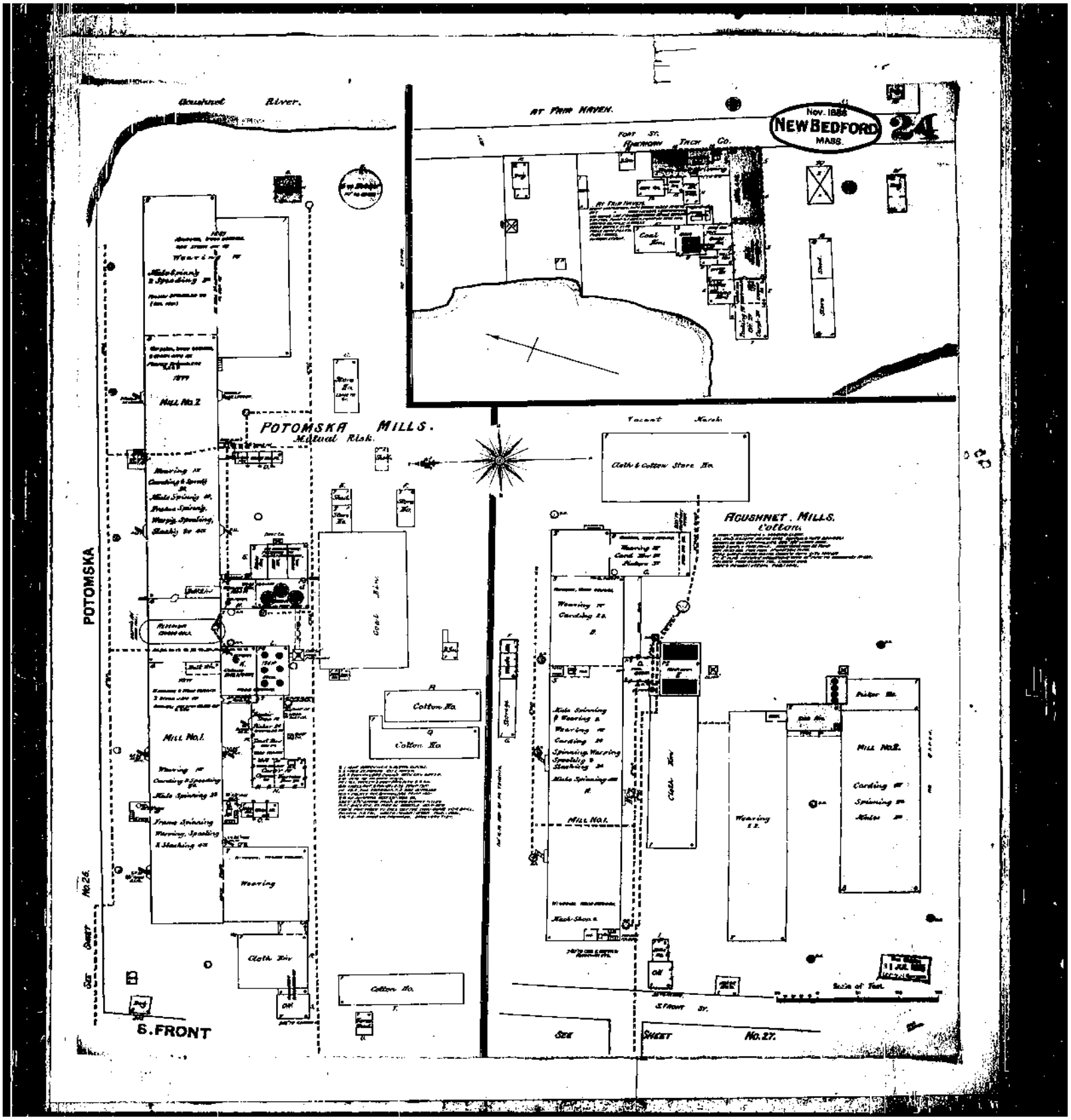

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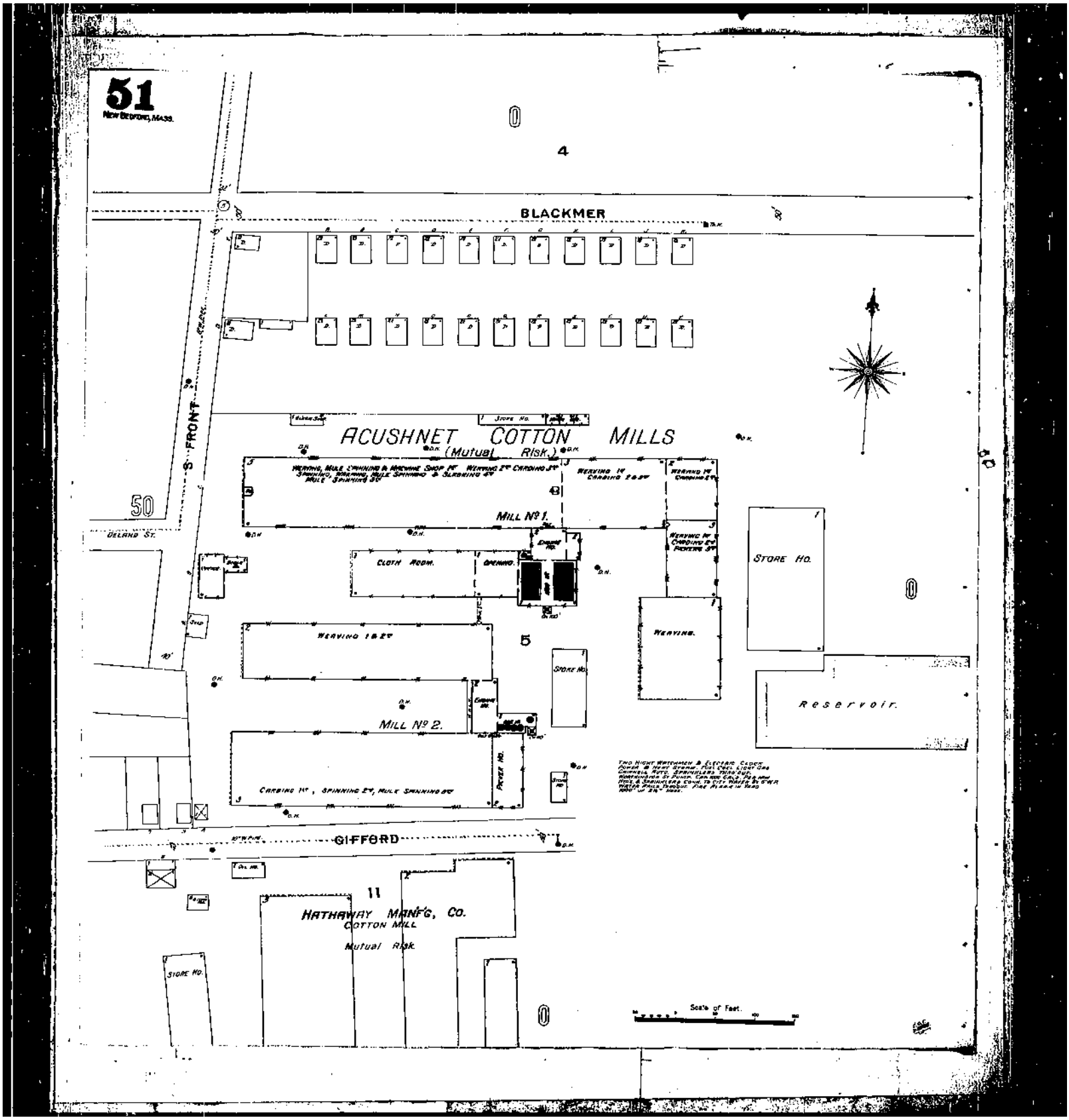

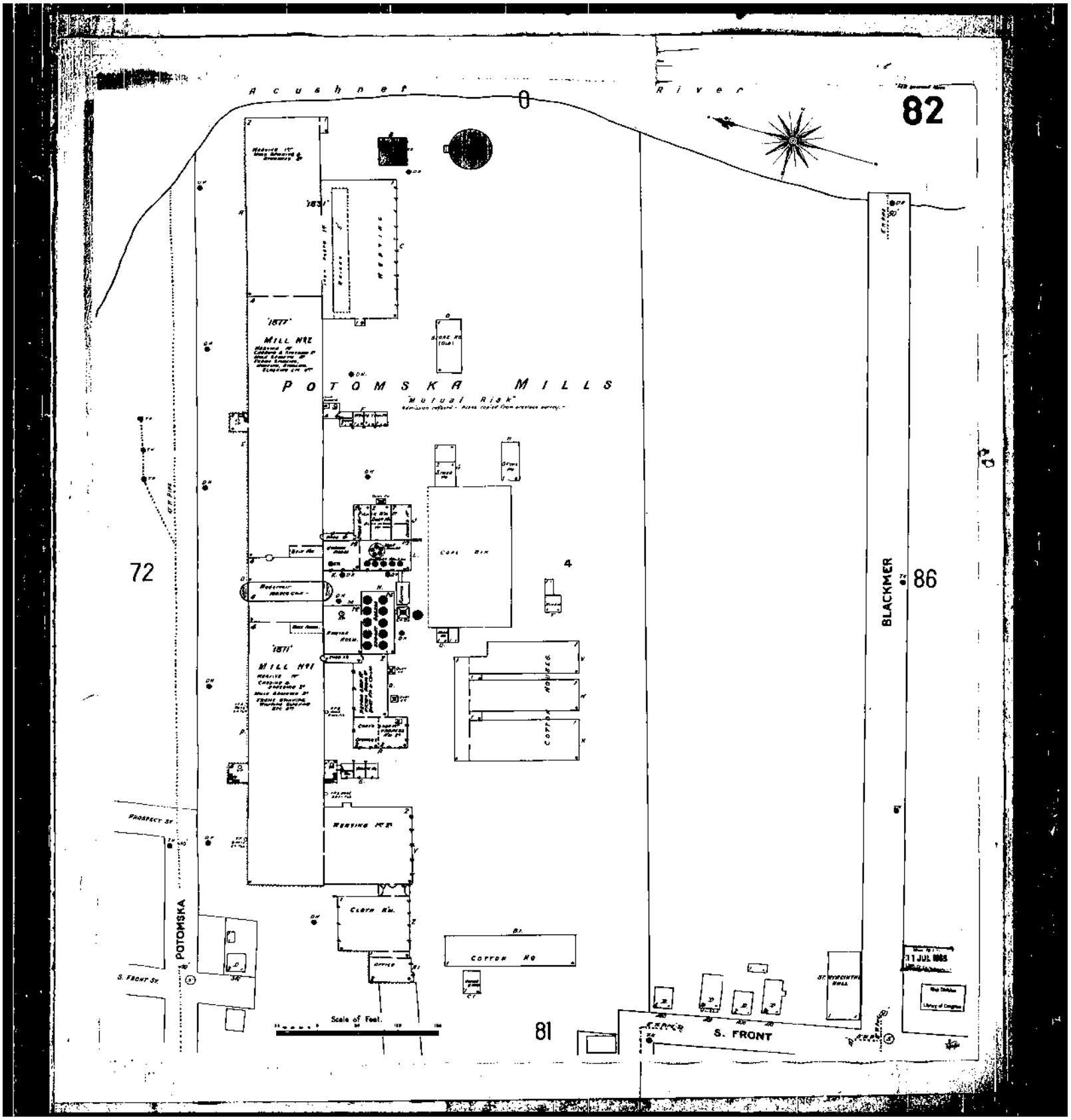

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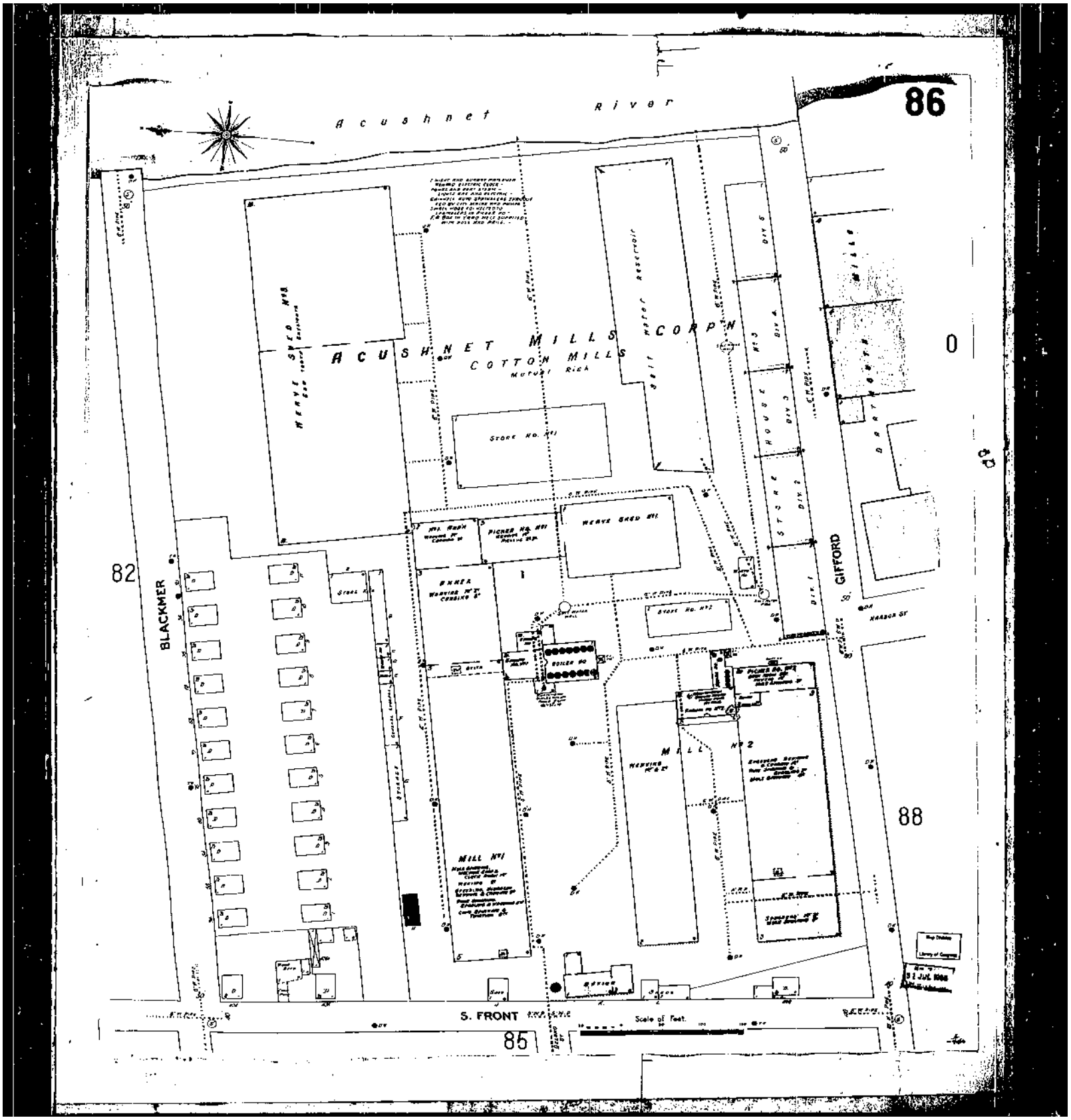

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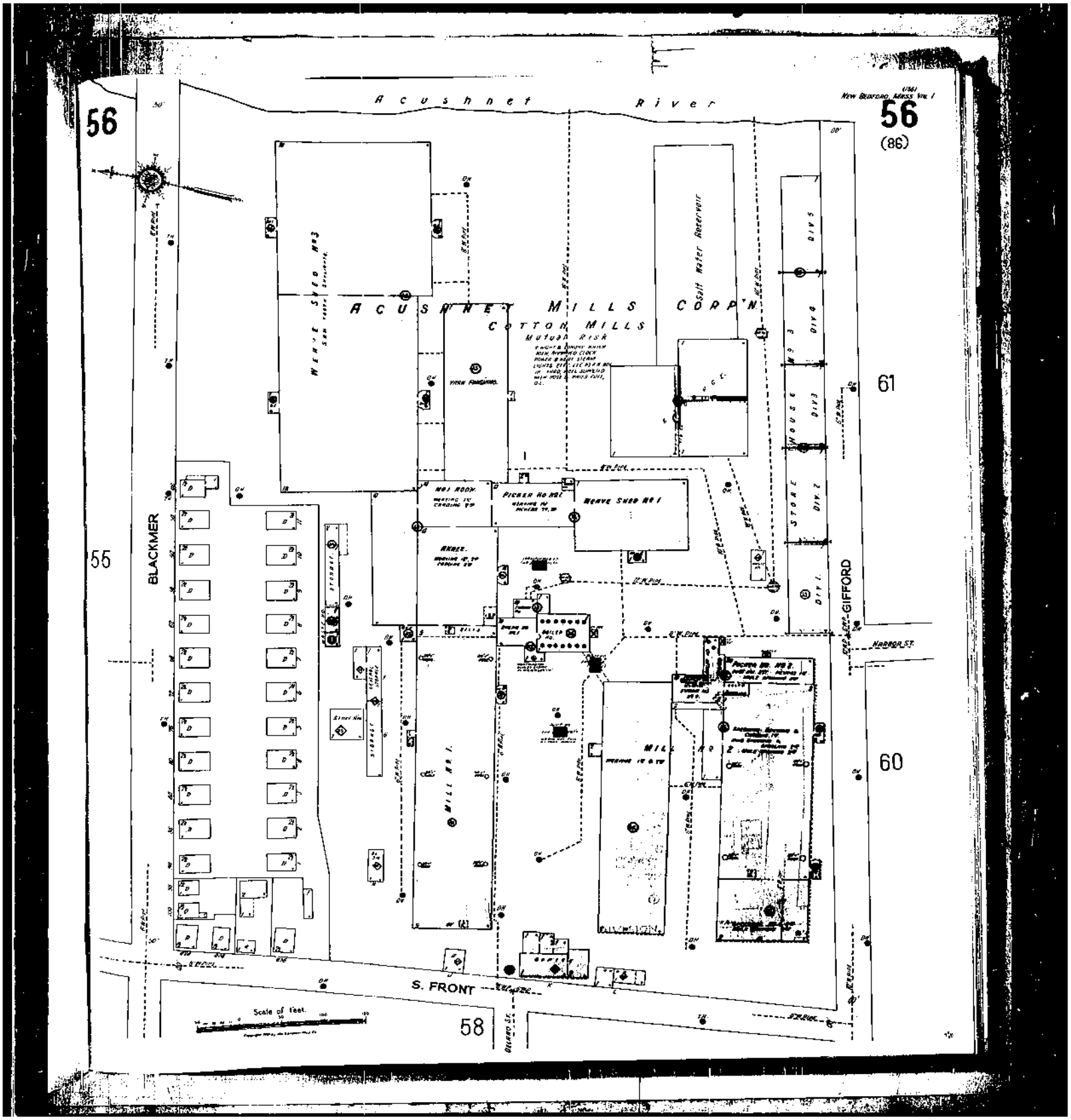

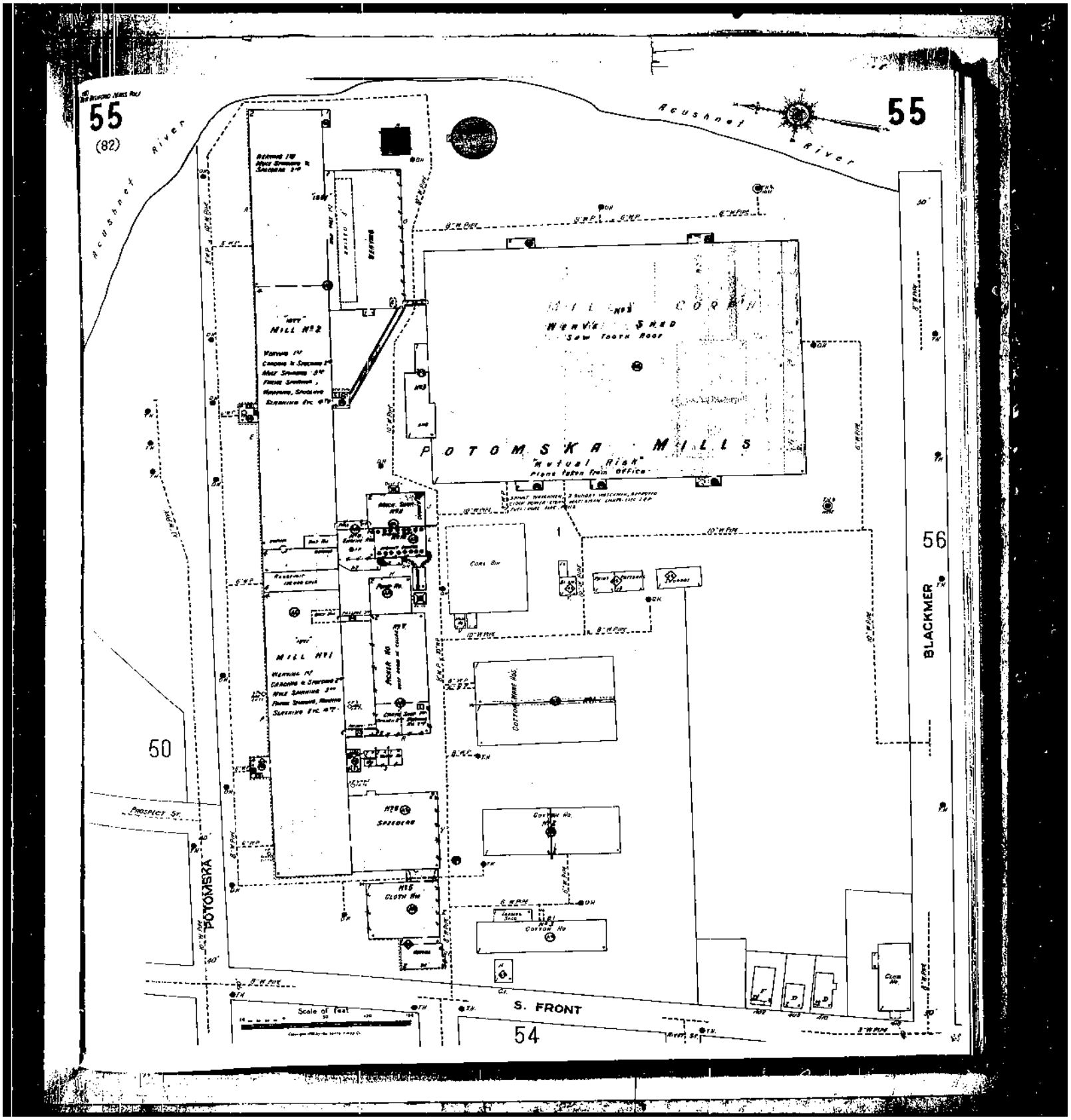

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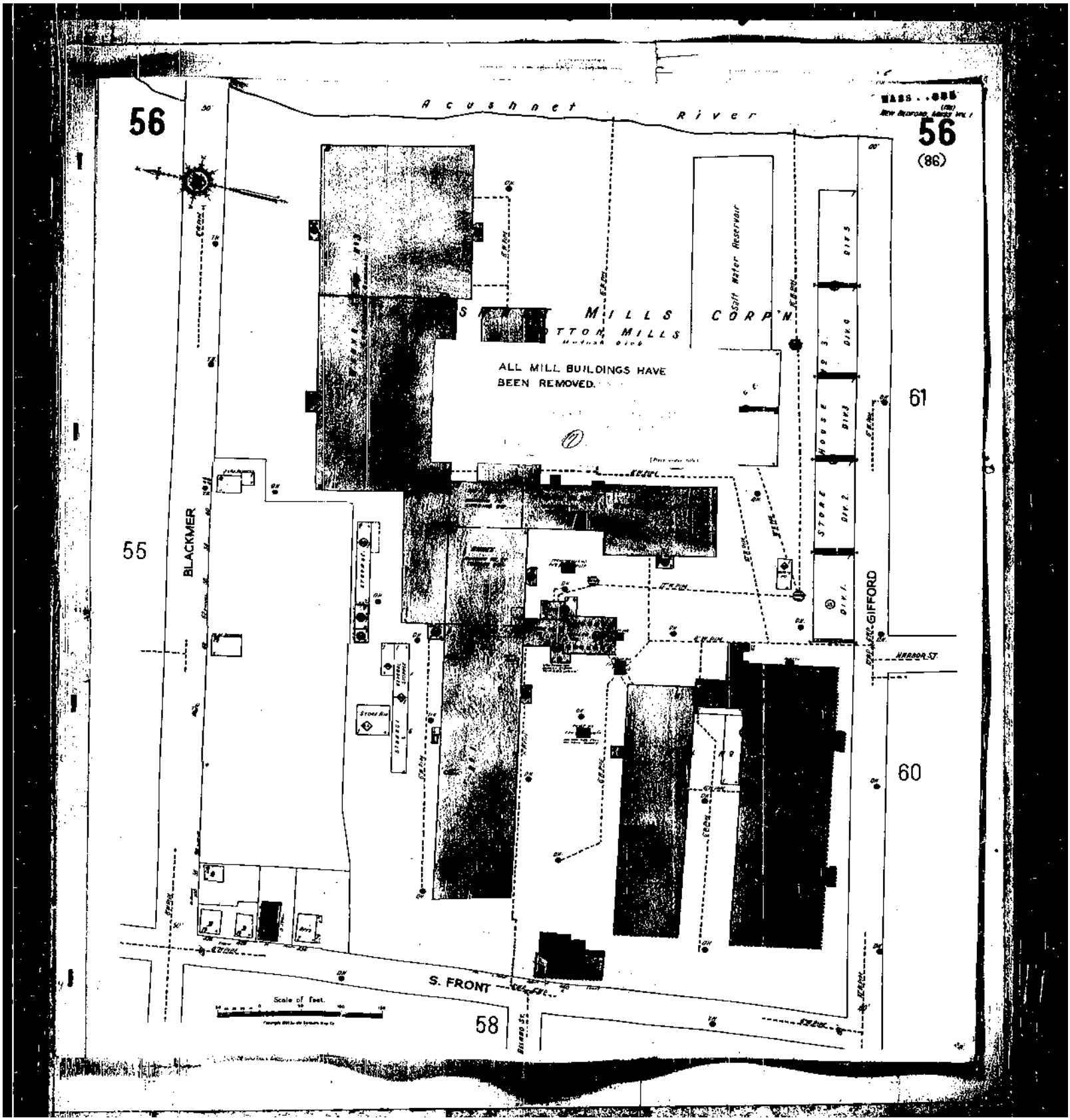

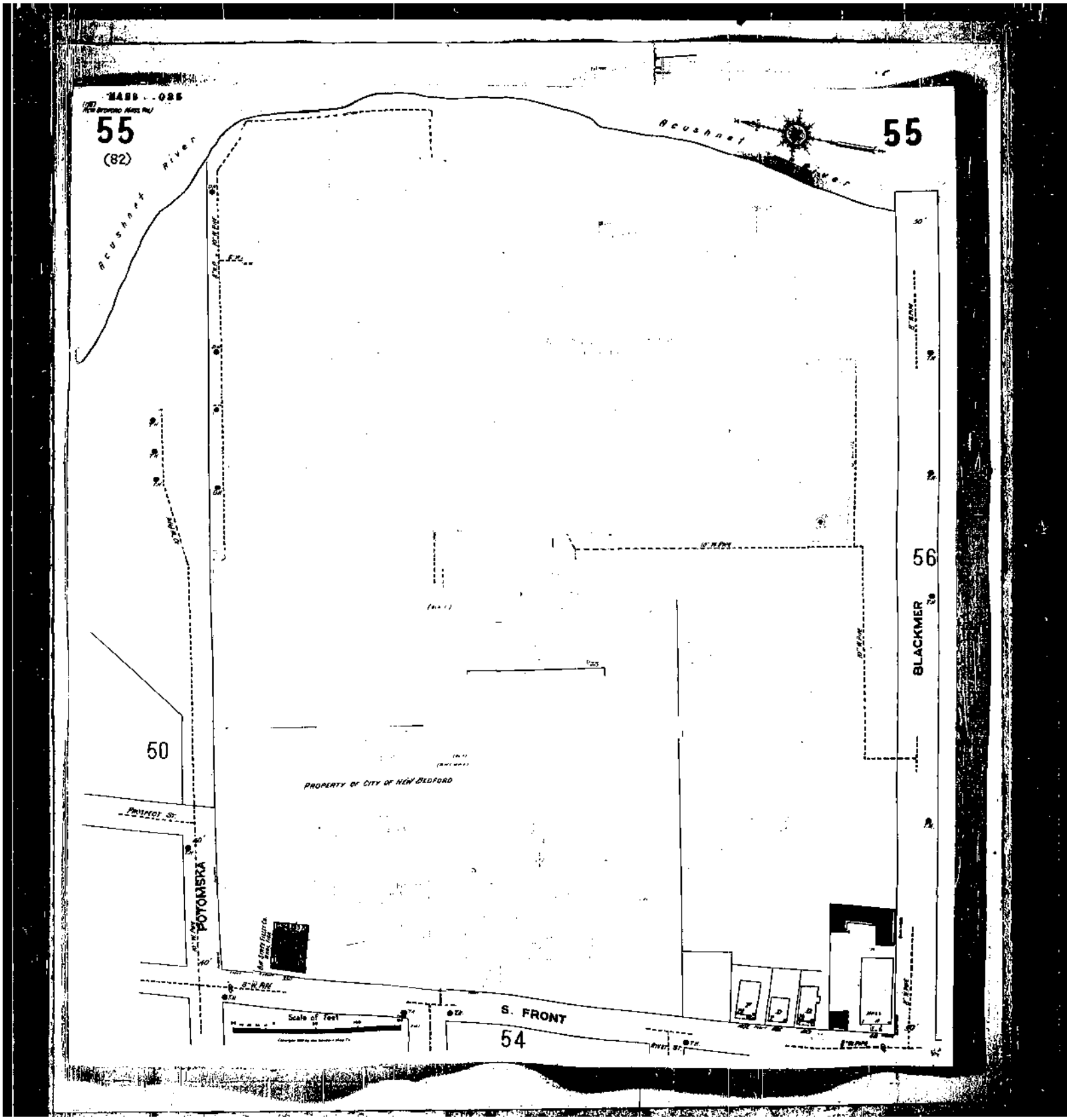

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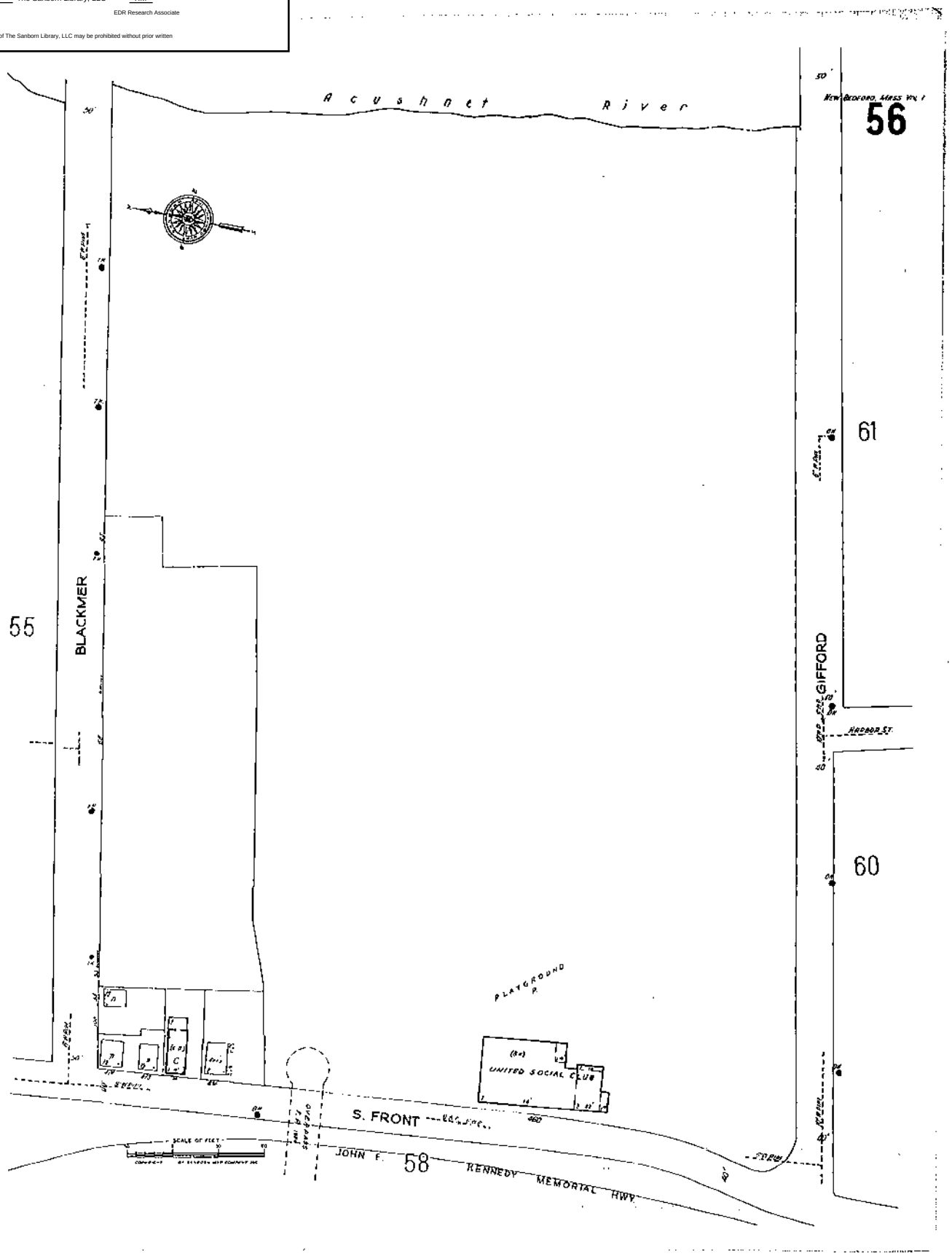

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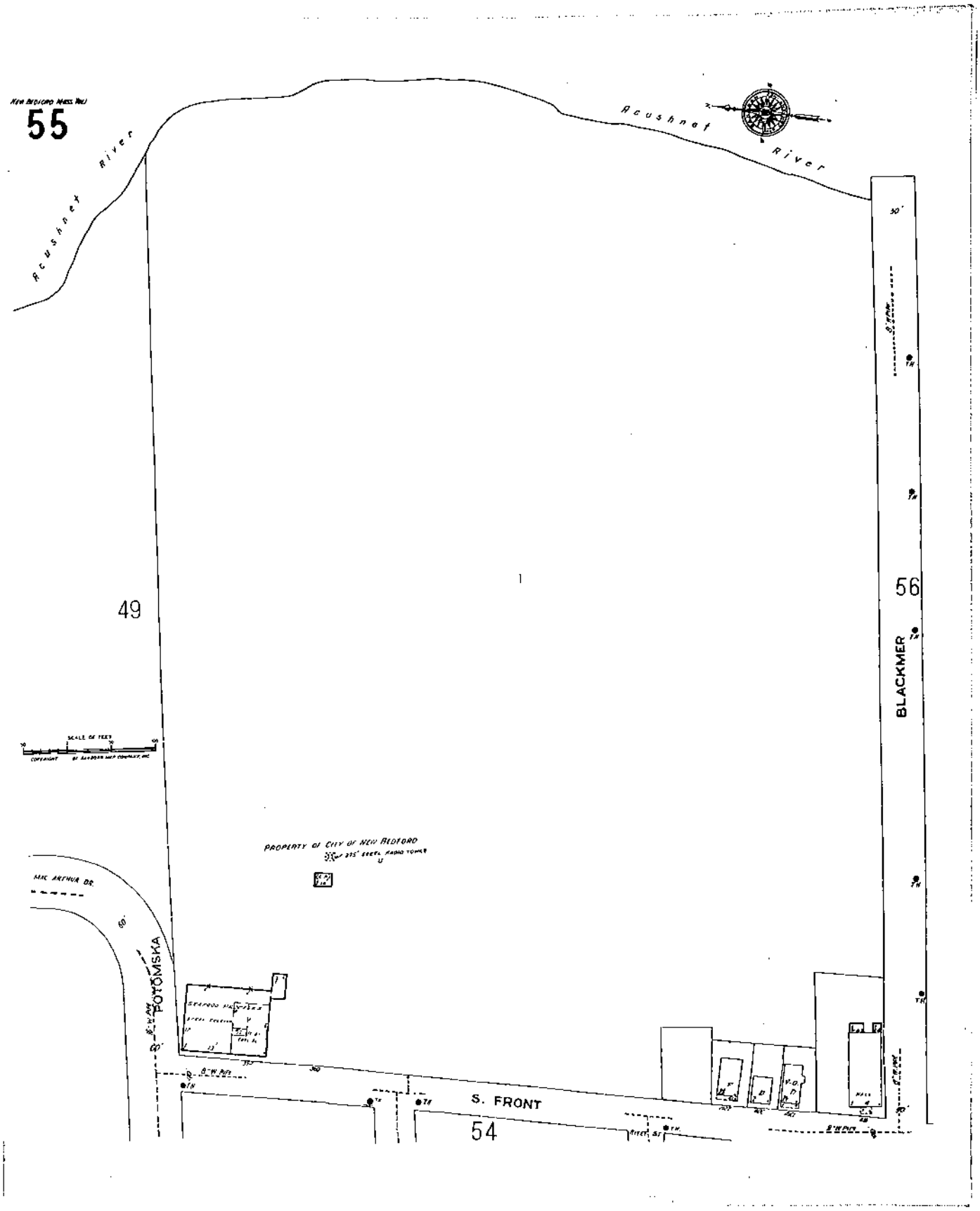

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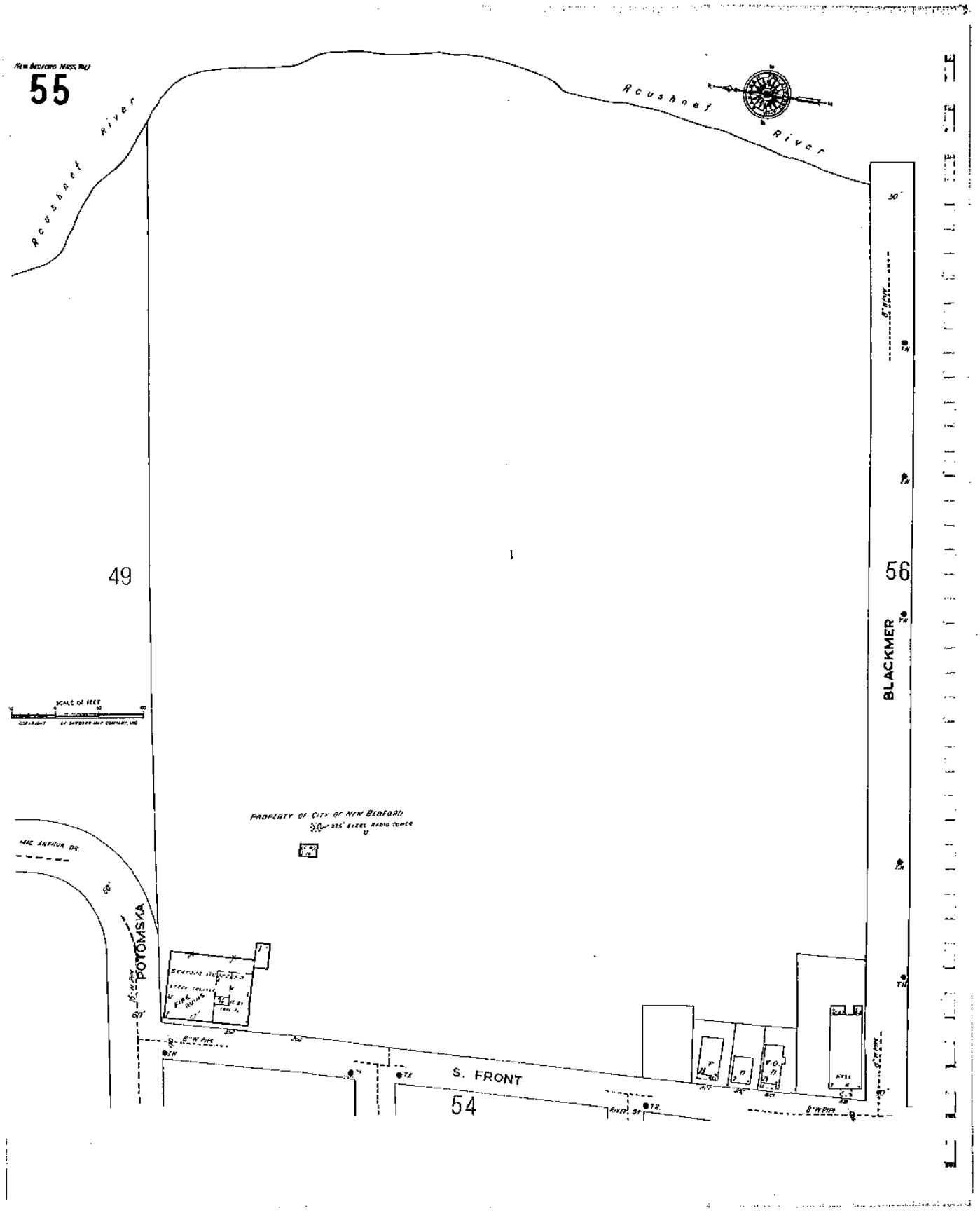

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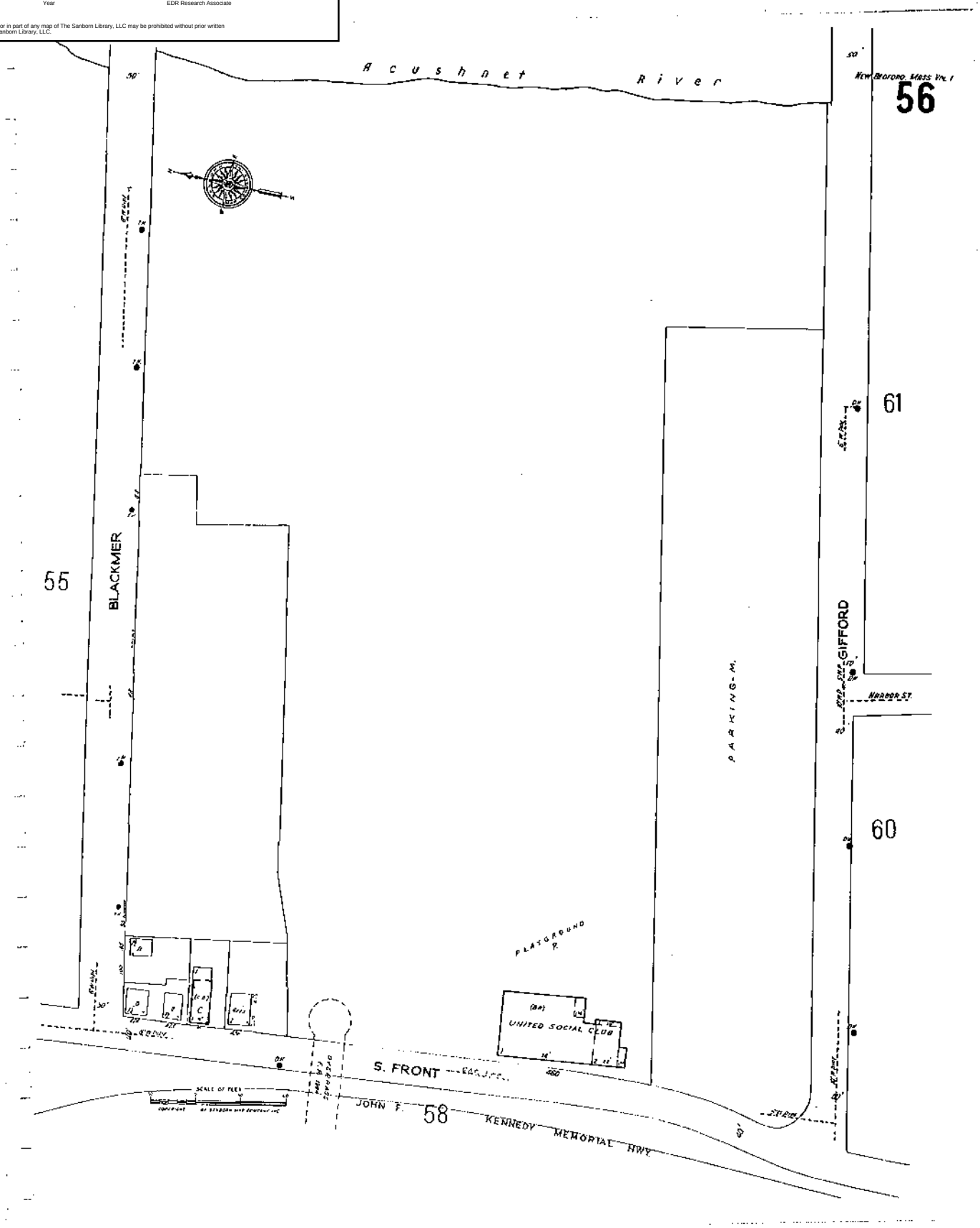

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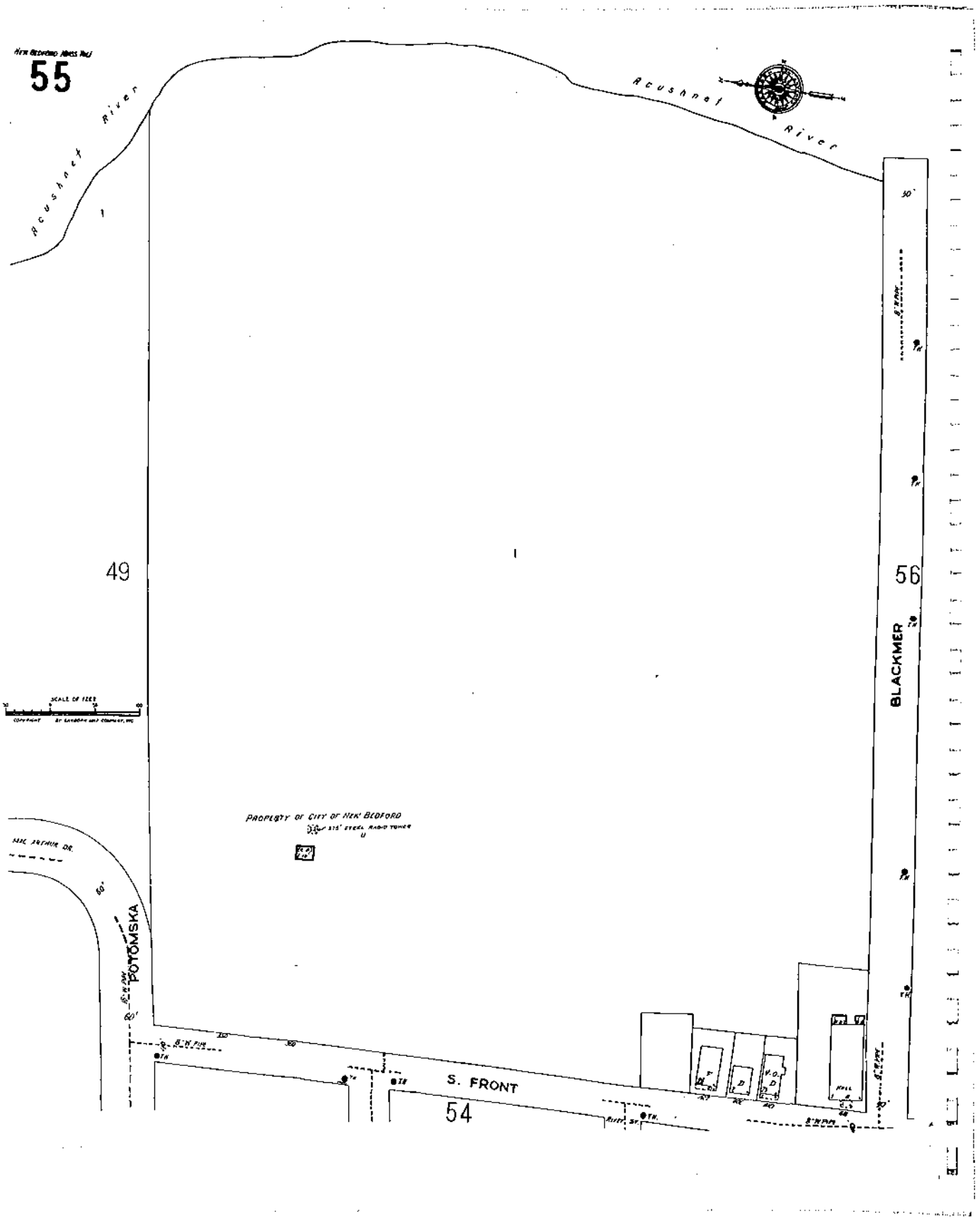

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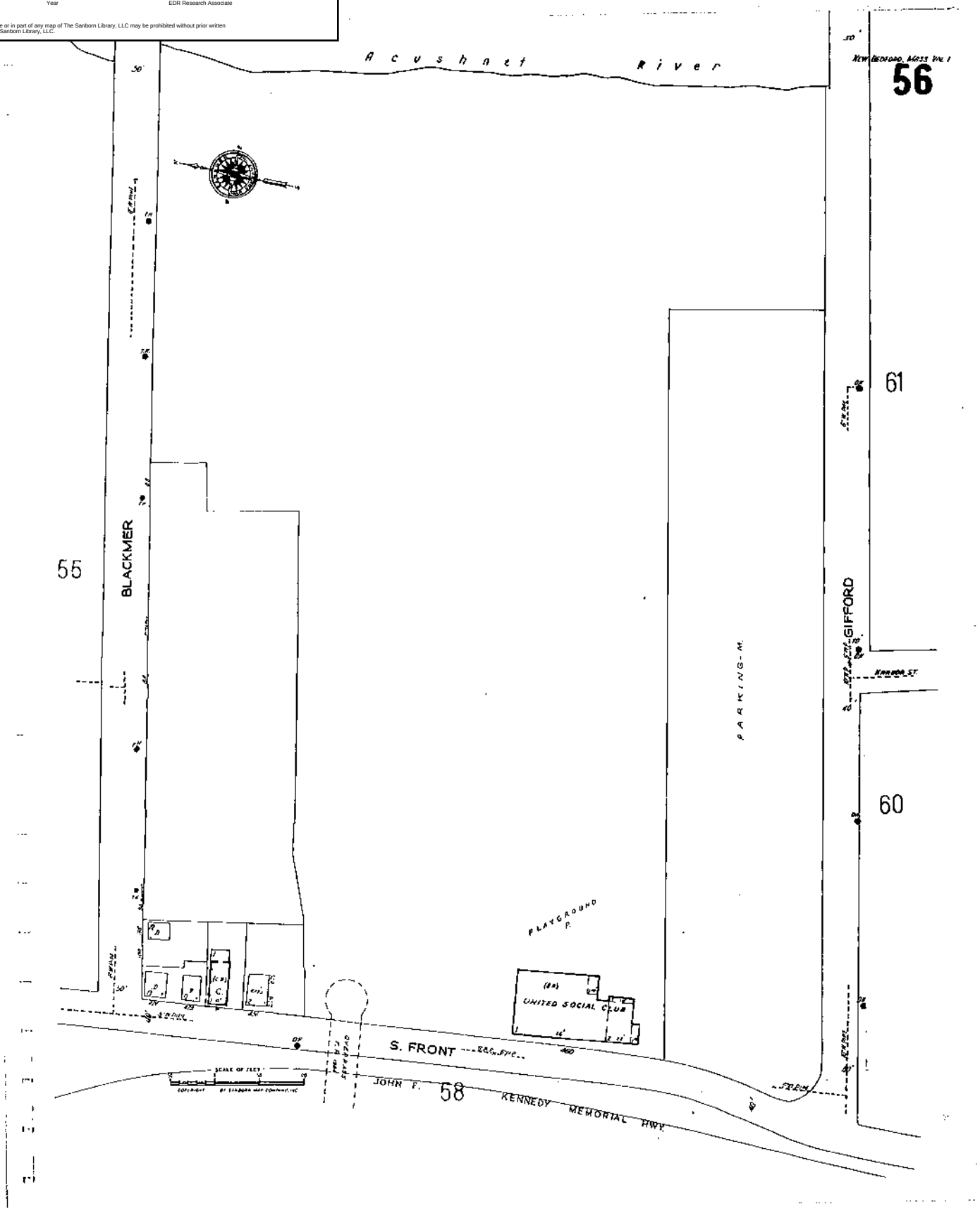

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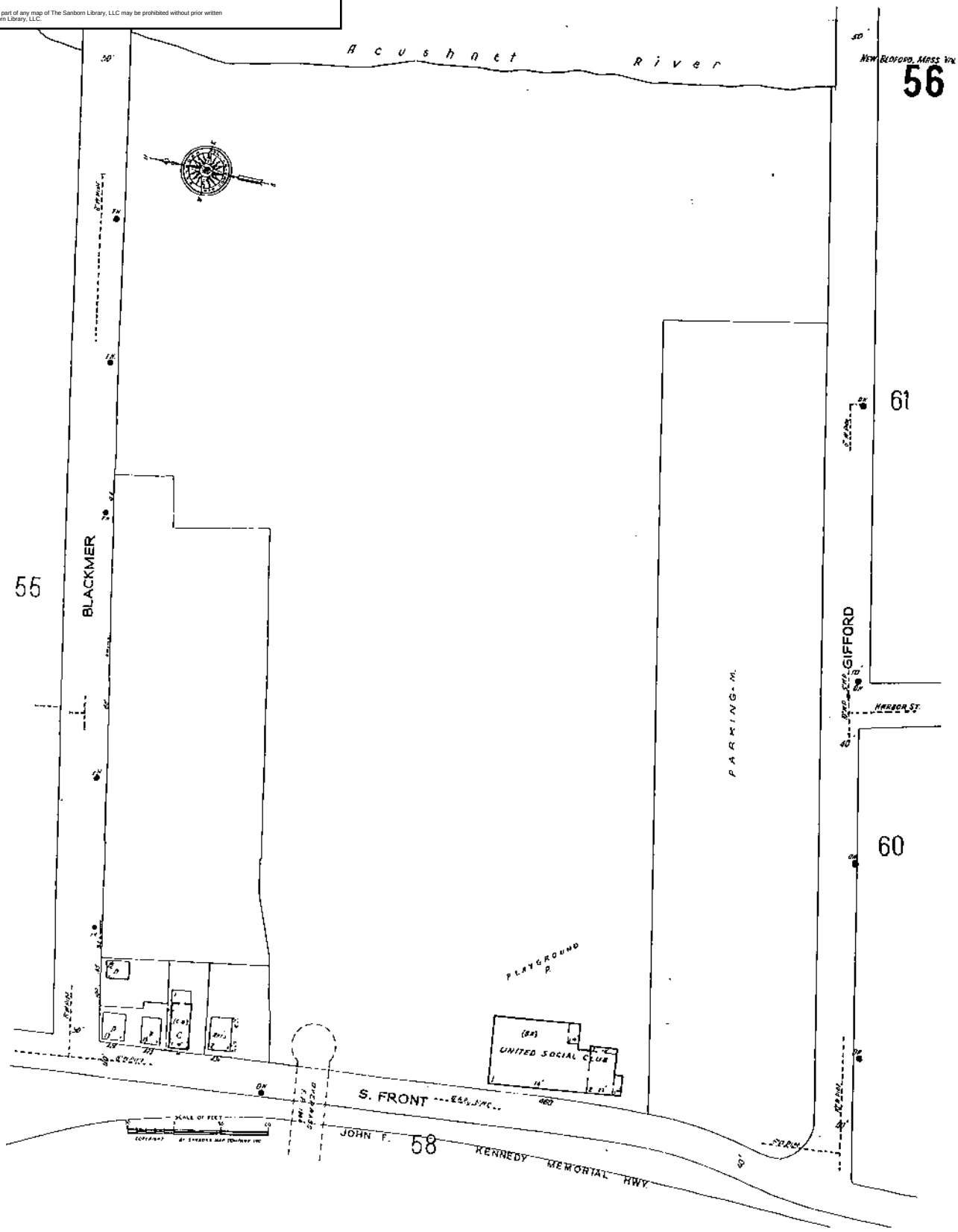

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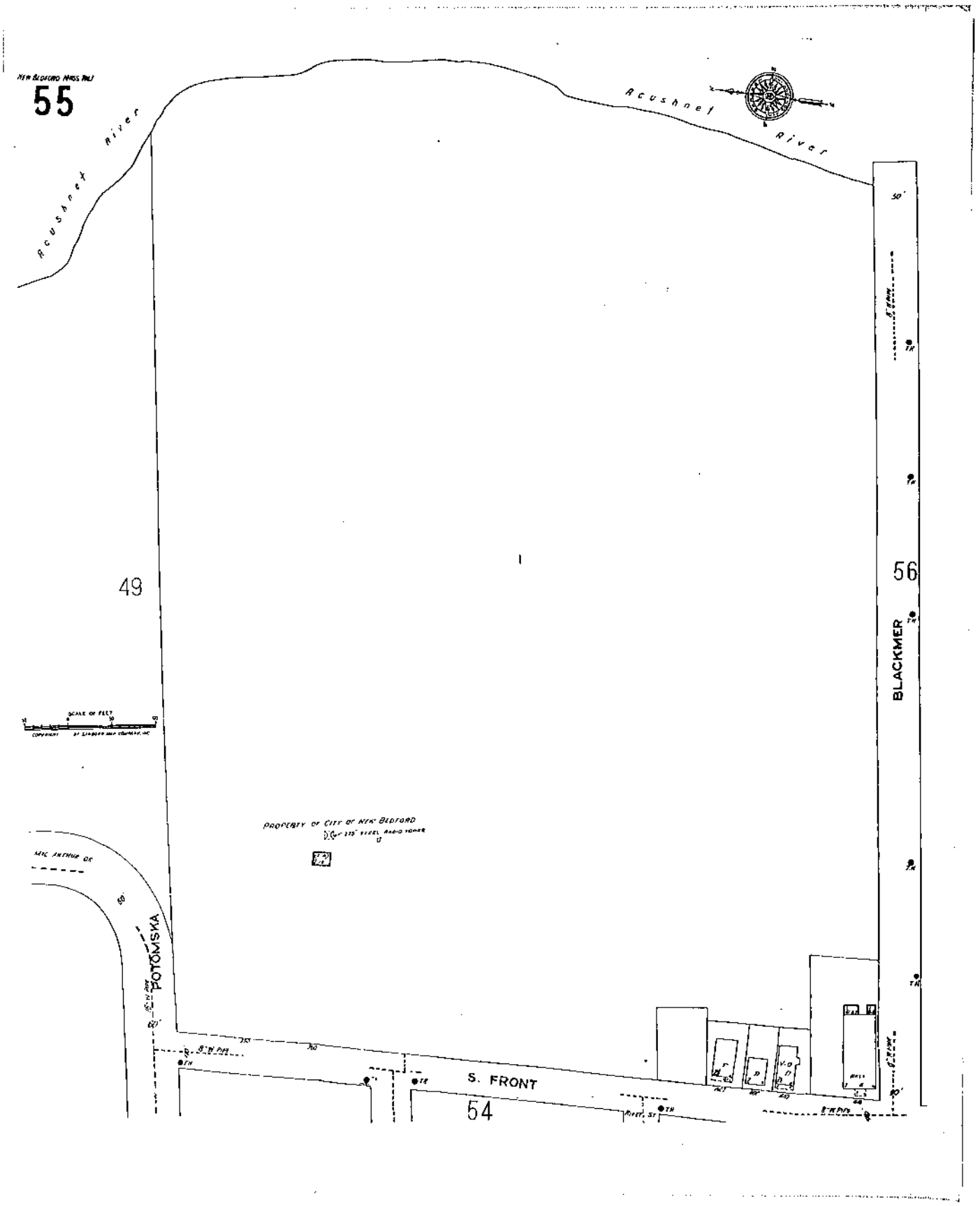

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APPENDIX F

March 27, 2009

Bureau of Waste Site Cleanup
MA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Southeast Regional Offices
20 Riverside Drive
Lakeville, MA 02347

RE: CLASS A3 RESPONSE ACTION OUTCOME
RTN#4-15490
16 Blackmer Street – New Bedford, Massachusetts

To Whom It May Concern:

As you are aware, the Commonwealth of Massachusetts/Department of Fish and Game/Division of Marine Fisheries currently owns the Property addressed as 16 Blackmer Street, New Bedford, Massachusetts. The Property is depicted on Assessors Map 25A, as Lots 49 and 53 and was previously known as Lot 3 of the former New Bedford Standard Times Field Site. According to public records, the Massachusetts Department of Environmental Protection (DEP) was notified of a 120-day release condition for the subject Property on May 19, 2000, and assigned Release Tracking Number (RTN) 4-15490 to the release Site which originally encompassed the subject Property and several nearby lots. Historic and recent assessments have identified the presence of elevated concentrations of polynuclear aromatic hydrocarbons (PAH) and lead in historic urban fill identified throughout the area.

The Commonwealth of Massachusetts, acting through its Department of Fish and Game, acquired the Property in July 2005 from The City of New Bedford Redevelopment Authority, who acquired the Standard Times Field Site in 1998. The redevelopment authority completed several environmental assessments and subsequently sub-divided the release site property into lots which were then sold to several different owners for commercial development and use. Through the years, each of the surrounding lots achieved regulatory closure leaving the subject Property and the southern abutting City owned drainage easement as the sole location of the regulated release. It was the intention of the current owner to purchase Property in the area for immediate use as a parking lot and ultimately for a commercial structure that will be utilized by the Department of Fish and Game for storage and office space.

Common Sense Environmental, Inc., (CSE) was retained by the Department of Fish and Game to provide environmental consulting services specific to meeting the requirements of the MCP specific to the ultimate development of the subject Property for the above stated commercial uses. Toward this end, to date CSE officially filed a Phase I/Tier Classification Report (dated May 2006) and a partial-Class B1 RAO Report (dated July 2006) with DEP. The Phase I report classified the overall release Property as a Tier II release site and a Phase II site investigation was completed to define the extent and magnitude of contamination. The results and conclusions of the environmental

50 Theresa Street
South Dartmouth, Massachusetts 02748
e-mail: csense@empire.net

Telephone: 508-991-3491
508-726-0902
Fax: 508-992-5039

investigations conducted at the Property confirmed the presence of elevated levels of lead, petroleum hydrocarbons and polycyclic aromatic hydrocarbons (PAH's) in soil, likely attributable to the presence of historic urban fill emplaced along the New Bedford waterfront area. The primary contaminant of concern was identified as lead and was detected at concentrations ranging from 42 mg/kg to 287 mg/kg in surface and subsurface soil (from 0 to 8 feet in depth) situated throughout the unpaved northern portion of the Property. Higher levels of lead were found in soil samples collected from the same depths beneath the currently paved southern portion of the Property at concentrations ranging from 30 to 5780 mg/kg. Other contamination detected above state reportable concentrations identified at the site generally mirrored the locations and trends exhibited by lead and specifically consisted of Benzo(a)pyrene at concentrations as high as 13 mg/kg; Dibenzo(a,h)anthracene at concentrations as high as 10 mg/kg; and petroleum hydrocarbons at concentrations as high as 900 mg/kg. Although petroleum hydrocarbon concentrations exceeded state standards at the time of measurement, subsequent changes and relaxing of said standards in 2008 effectively removed petroleum as primary contaminant of concern. Groundwater monitoring demonstrated that the release does not currently affect groundwater quality.

The PRP requested the completion of a partial RAO to allow for the immediate development of approximately 2 acres of the Property including Lot 53 and the northern portion of Lot 49. In addition, the PRP (under the direction of CSE) employed a qualified risk assessor, O'Reilly, Talbot & Okun Associates, Inc., (OTO) to complete a Method 3 Risk Assessment for the remaining southern 1.4 acres of the release Site. The proposed development plans including the placement of an asphalt parking lot and construction of a commercial structure were communicated to OTO and a draft Method 3 Risk Characterization report (August 2006) was completed to evaluate both current and the proposed future use risks. The draft risk assessment was utilized to support an April 2008 RAM Plan which detailed the construction of a paved parking lot on the southern un-closed portion of the subject Property. The RAM was completed in the Fall of 2008 and the Method 3 Report was finalized to reflect current site conditions. A full copy of the final Method 3 (October 2008) is provided as Attachment 2 of this letter in support of the Phase II CSA provided as Attachment 1.

In brief, the attached Method 3 Risk Characterization No Significant Risk to human health, safety, public welfare, and the environment exists for activities and uses consistent with current commercial/industrial uses of the Property including emergency utility work and/or any construction projects. However, a level of No Significant Risk is not supported for future unrestricted activities and uses of the southern paved portion of the Property, such as those which may result in a child's exposure through direct contact with and/or ingestion of the contaminated soil. In accordance with regulations contained at 310 CMR 40.1012 (2)(a)(1), an Activity and Use Limitation was recorded to ensure that the soil currently located beneath the paved area located on the southern portion of the Property remains inaccessible and the exposure pathways remain incomplete. The implemented Activity and Use Limitation will require the maintenance of the current pavement or other suitable physical barrier (including buildings and concrete sidewalks) so that direct contact with underlying soils is not possible by visitors to the subject Property. In addition, activities which may result in the disturbance or relocation of the underlying soil to more accessible areas was also restricted. A copy of the he following presents said obligations and conditions as provided in the recorded Activity and Use Limitation.

The conceptual site model for the subject release concludes that the primary source for contaminants identified on the subject property is related to the presence of historic urban fill emplaced along the New Bedford Harbor shoreline during the early 1900's. The industrial nature of the New Bedford waterfront, combined with historic sewer outflows and the predominant use of coal as a fuel source in surrounding facilities would indicate that fill materials would contain various amounts of construction debris, ash and rubble sometimes containing hazardous materials or waste. As with most historic waterfront sites, the limits of urban fill extend well beyond Property boundaries as documented in region wide assessments and neighboring Property RAO's. No specific point source or evidence of significant waste disposal was encountered on the subject Property, but areas with elevated fill related contaminant concentrations appear to coincide with a former roadway/sewer discharge and current drainage easement located east of the current Blackmer Street terminus and along the southern Property boundary. Although the entire eastern half of the subject Property has been the subject of filling through history, it is suspected that this former roadway (which extends to the waters edge on historic maps), may have been paved or surfaced with cinder/ash and was potentially subject to occasional oil spraying during its use throughout the early 1900's. In addition to this possible scenario, the dead end waterfront road may also have been the location of historic fishing (lead sinkers) and or dumping activities throughout its history. Regardless of their genesis, elevated concentrations of lead, petroleum and PAHs have consistently been encountered in shallow soils situated within the former roadway area and in areas to the immediate north and south. This identified source has been in place for 75-100 years and has not resulted in any currently measurable impact to groundwater or the surrounding environment. Feasibility assessments completed per 310 CMR 40.0860, have concluded that achieving background at the subject release site is infeasible. No known use or storage of oil or hazardous materials has occurred at the subject property during the last 50 years.

The attached reports provide a detailed summary of response actions and assessments performed at the Site since discovery and disseminates the necessary information to support the permanent closure of RTN# 4-15490 under the category of a Class A3 - Response Action Outcome (RAO). This submittal ensures continued compliance with the provisions of the Massachusetts Contingency Plan 310 CMR 40.0000 (MCP). When filed with the DEP, this Class A3 RAO designates that studies completed to assess the subject release have demonstrated that a level of No Significant Risk exists, but such a level of No Significant Risk is contingent upon an Activity and Use Limitation which has been implemented at the disposal site pursuant to 310 CMR 40.1012. Additionally, no remaining contaminant concentrations an the subject property were found to exceed applicable Upper Concentration Limits listed at 310 CMR 40.0996(7).

An attempt was made to prepare this report as a stand alone document, providing a detailed summary of historical events, response actions, analytical data and risk assessments generated by CSE and multiple former environmental consultants. This report also contains a re-interpretation of comprehensive site assessment details (and plans) as understood by the successor LSP-of-Record, based on his understanding of the complete informational database available at the time this report was prepared. Where available, laboratory reports for data utilized in the calculation of exposure point concentrations or in support of Method 3 Risk Assessment statements have been attached to the RAO report for ease of reference. Additional supporting documentation provided as Appendices for the previously submitted Phase I report have not been duplicated in this report.

The appropriate Massachusetts BWSC Transmittal forms, public notice documentation, AUL documents and Feasibility Analysis complete the MCP requirements for this closure option and are all provided with the attached reports as necessary. These documents have been completed by Common Sense Environmental, Inc. with Mr. Kevin J. Beaulieu, LSP of Record for the Property (LSP#1699), whose seal and signature appears on the BWSC Transmittal Forms attached herewith. As required by the MCP, public officials must be notified of the filing and availability of this report. In addition, a copy of the recorded AUL implemented as part of this closure is to be provided to public officials within 30 days of recording with the Registry of Deeds. As such, by copying this cover letter (with an attached copy of the recorded AUL) to local municipal offices, the public notification requirements mandated by 310 CMR 40.1403(3)f and 40.1403(7) are hereby addressed. The complete RAO and Method 3 Risk Characterization Reports with all required supporting documentation is available for review at both the Southeast Regional DEP office in Lakeville, Massachusetts and Common Sense Environmental, Inc., of South Dartmouth, Massachusetts. If you have any further questions or concerns, please feel free to contact our office at any time.

Sincerely,
For COMMON SENSE ENVIRONMENTAL, INC.

Cynthia S. Gilchrest 3/24/09 Kevin Beaulieu

Cynthia S. Gilchrest
President

Kevin J. Beaulieu, LSP
Wave 2 Environmental, Inc.

Attachments:
-BWSC 104 - RAO Transmittal Form
-BWSC 108 – CRA Transmittal Form
-BWSC 113 – AUL Transmittal Form
-Class A3 Response Action Outcome Report
-Method 3 Risk Characterization Report (OTO, October 2008)

cc: Kevin Creighton, Massachusetts Department of Fish & Game, 251 Causeway Street, Suite 400, Boston, MA 02114
City of New Bedford Board of Health, 133 William Street, New Bedford, MA 02744 (Letter w/AUL)
City of New Bedford Mayor's Office, 133 William Street, New Bedford, MA 02744 (Letter w/AUL)
City of New Bedford Zoning Official, 133 William Street, New Bedford, MA 02744 (Letter w/AUL)
City of New Bedford Building Code Enforcement Official, 133 William Street, New Bedford, MA 02744 (Letter w/AUL)
Scott Alphonse, Director, City of New Bedford Environmental Stewardship, 133 William Street, Rm 311, New Bedford, MA 02744

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC104

RESPONSE ACTION OUTCOME (RAO) STATEMENT

Pursuant to 310 CMR 40.1000 (Subpart J)

Release Tracking Number
4 - 15490

For sites with multiple RTNs, enter the Primary RTN above.

A. SITE LOCATION:

1. Site Name/Location Aid: LOT 4

2. Street Address: BLACKMER ST

3. City/Town: NEW BEDFORD 4. ZIP Code: 027400000

☑ 5. Check here if a Tier Classification Submittal has been provided to DEP for this disposal site.

☐ a. Tier IA ☐ b. Tier IB ☐ c. Tier IC ☑ d. Tier II

6. If a Tier I Permit has been issued, provide Permit Number: _____

B. THIS FORM IS BEING USED TO: (check all that apply)

1. List Submittal Date of RAO Statement (if previously submitted): _____ mm/dd/yyyy

☑ 2. Submit a **Response Action Outcome (RAO) Statement**

☐ a. Check here if this RAO Statement covers additional Release Tracking Numbers (RTNs). RTNs that have been previously linked to a Tier Classified Primary RTN do not need to be listed here.

b. Provide additional Release Tracking Number(s) covered by this RAO Statement. ☐ - _____ ☐ - _____

☐ 3. Submit a **Revised Response Action Outcome Statement**

☐ a. Check here if this Revised RAO Statement covers additional Release Tracking Numbers (RTNs), not listed on the RAO Statement or previously submitted Revised RAO Statements. RTNs that have been previously linked to a Tier Classified Primary RTN do not need to be listed here.

b. Provide additional Release Tracking Number(s) covered by this RAO Statement. ☐ - _____ ☐ - _____

☐ 4. Submit a **Response Action Outcome Partial (RAO-P) Statement**

Check above box, if any Response Actions remain to be taken to address conditions associated with this disposal site having the Primary RTN listed in the header section of this transmittal form. This RAO Statement will record only an RAO-Partial Statement for that RTN. A final RAO Statement will need to be submitted that references all RAO-Partial Statements and, if applicable, covers any remaining conditions not covered by the RAO-Partial Statements.

Also, specify if you are an Eligible Person or Tenant pursuant to M.G.L. c. 21E s.2, and have no further obligation to conduct response actions on the remaining portion(s) of the disposal site:

☐ a. Eligible Person ☐ b. Eligible Tenant

☐ 5. Submit an optional **Phase I Completion Statement** supporting an RAO Statement

☐ 6. Submit a **Periodic Review Opinion evaluating the status of a Temporary Solution** for a Class C-1 RAO Statement, as specified in 310 CMR 40.1051 (Section F is optional)

☐ 7. Submit a **Retraction** of a previously submitted **Response Action Outcome Statement** (Sections E & F are not required)

(All sections of this transmittal form must be filled out unless otherwise noted above)

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC104

RESPONSE ACTION OUTCOME (RAO) STATEMENT

Pursuant to 310 CMR 40.1000 (Subpart J)

Release Tracking Number
4 - 15490

C. DESCRIPTION OF RESPONSE ACTIONS: (check all that apply; for volumes, list cumulative amounts)

- [x] 1. Assessment and/or Monitoring Only
- [x] 2. Temporary Covers or Caps
- [ ] 3. Deployment of Absorbent or Containment Materials
- [ ] 4. Treatment of Water Supplies
- [ ] 5. Structure Venting System
- [ ] 6. Engineered Barrier
- [ ] 7. Product or NAPL Recovery
- [ ] 8. Fencing and Sign Posting
- [ ] 9. Groundwater Treatment Systems
- [ ] 10. Soil Vapor Extraction
- [ ] 11. Bioremediation
- [ ] 12. Air Sparging
- [ ] 13. Monitored Natural Attenuation
- [ ] 14. In-situ Chemical Oxidation
- [ ] 15. Removal of Contaminated Soils

[ ] a. Re-use, Recycling or Treatment [ ] i. On Site Estimated volume in cubic yards _____

[ ] ii. Off Site Estimated volume in cubic yards _____

iia. Facility Name: _____ Town: _____ State: _____

iib. Facility Name: _____ Town: _____ State: _____

iii. Describe: _____

[ ] b. Landfill

[ ] i. Cover Estimated volume in cubic yards _____

Facility Name: _____ Town: _____ State: _____

[ ] ii. Disposal Estimated volume in cubic yards _____

Facility Name: _____ Town: _____ State: _____

[ ] 16. Removal of Drums, Tanks or Containers:

a. Describe Quantity and Amount: _____

b. Facility Name: _____ Town: _____ State: _____

c. Facility Name: _____ Town : _____ State: _____

[ ] 17. Removal of Other Contaminated Media:

a. Specify Type and Volume: _____

b. Facility Name: _____ Town: _____ State: _____

c. Facility Name: _____ Town: _____ State: _____

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC104

RESPONSE ACTION OUTCOME (RAO) STATEMENT

Pursuant to 310 CMR 40.1000 (Subpart J)

Release Tracking Number
4 - 15490

C. DESCRIPTION OF RESPONSE ACTIONS (cont.): (check all that apply; for volumes, list cumulative amounts)

☑ 18. Other Response Actions:

Describe: **PAVED SITE UNDER A RAM (APRIL 2008)**

☐ 19. Use of Innovative Technologies:

Describe: _____

D. SITE USE:

1. Are the response actions that are the subject of this submittal associated with the *redevelopment, reuse* or the *major expansion of the current use* of property(ies) impacted by the presence of oil and/or hazardous materials?

☑ a. Yes ☐ b. No ☐ c. Don't know

2. Is the property a *vacant or under-utilized commercial or industrial* property ("a brownfield property")?

☑ a. Yes ☐ b. No ☐ c. Don't know

3. Will funds from a state or federal brownfield incentive program be used on one or more of the property(ies) within the disposal site?

☐ a. Yes ☑ b. No ☐ c. Don't know If Yes, identify program(s): _____

4. Has a Covenant Not to Sue been obtained or sought?

☐ a. Yes ☐ b. No ☑ c. Don't know

5. Check all applicable categories that apply to the person making this submittal: ☐ a. Redevelopment Agency or Authority

☐ b. Community Development Corporation ☐ c. Economic Development and Industrial Corporation

☐ d. Private Developer ☐ e. Fiduciary ☐ f. Secured Lender ☐ g. Municipality

☐ h. Potential Buyer (non-owner) ☐ i. Other, describe: **COMMONWEALTH OF MASSACHUSETTS**

This data will be used by MassDEP for information purposes only, and does not represent or create any legal commitment, obligation or liability on the part of the party or person providing this data to MassDEP.

E. RESPONSE ACTION OUTCOME CLASS:

Specify the Class of Response Action Outcome that applies to the disposal site, or site of the Threat of Release. Select **ONLY** one Class.

☐ **1. Class A-1 RAO**: Specify one of the following:

☐ a. Contamination has been reduced to background levels. ☐ b. A Threat of Release has been eliminated.

☐ **2. Class A-2 RAO:** You **MUST** provide justification that reducing contamination to or approaching background levels is infeasible.

☑ **3. Class A-3 RAO**: You **MUST** provide an implemented Activity and Use Limitation (AUL) and justification that reducing contamination to or approaching background levels is infeasible.

☐ **4. Class A-4 RAO**: You **MUST** provide an implemented AUL, justification that reducing contamination to or approaching background levels is infeasible, and justification that reducing contamination to less than Upper Concentration Limits (UCLs) 15 feet below ground surface or below an Engineered Barrier is infeasible. If the Permanent Solution relies upon an Engineered Barrier, you must provide or have previously provided a Phase III Remedial Action Plan that justifies the selection of the Engineered Barrier.

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC104

RESPONSE ACTION OUTCOME (RAO) STATEMENT

Pursuant to 310 CMR 40.1000 (Subpart J)

Release Tracking Number
4 - 15490

E. RESPONSE ACTION OUTCOME CLASS (cont.):

☐ **5. Class B-1 RAO: Specify one of the following:**

☐ a. Contamination is consistent with background levels ☐ b. Contamination is **NOT** consistent with background levels.

☐ **6. Class B-2 RAO**: You **MUST** provide an implemented AUL.

☐ **7. Class B-3 RAO**: You **MUST** provide an implemented AUL and justification that reducing contamination to less than Upper Concentration Limits (UCLs) 15 feet below ground surface is infeasible.

☐ **8. Class C-1 RAO**: You must submit a plan as specified at 310 CMR 40.0861(2)(h). Indicate type of ongoing response actions.

☐ a. Active Remedial System ☐ b. Active Remedial Monitoring Program ☐ c. None

☐ d. Other Specify: _____

☐ **9. Class C-2 RAO**: You must hold a valid Tier I Permit or Tier II Classification to continue response actions toward a Permanent Solution.

F. RESPONSE ACTION OUTCOME INFORMATION:

1. Specify the Risk Characterization Method(s) used to achieve the RAO described above:

☐ a. Method 1 ☐ b. Method 2 ☑ c. Method 3

☐ d. Method Not Applicable-Contamination reduced to or consistent with background, or Threat of Release abated

2. Specify all Soil Category(ies) applicable. More than one Soil Category may apply at a Site. Be sure to check off all **APPLICABLE** categories:

☐ a. S-1/GW-1	☐ d. S-2/GW-1	☐ g. S-3/GW-1
☐ b. S-1/GW-2	☑ e. S-2/GW-2	☑ h. S-3/GW-2
☐ c. S-1/GW-3	☑ f. S-2/GW-3	☑ i. S-3/GW-3

3. Specify all Groundwater Category(ies) impacted. A site may impact more than one Groundwater Category. Be sure to check off all **IMPACTED** categories:

☐ a. GW-1 ☐ b. GW-2 ☐ c. GW-3 ☑ d. No Groundwater Impacted

4. Specify remediation conducted:

☐ a. Check here if soil remediation was conducted.

☐ b. Check here if groundwater remediation was conducted.

5. Specify whether the analytical data used to support the Response Action Outcome was generated pursuant to the Department's Compendium of Analytical Methods (CAM) and 310 CMR 40.1056:

☐ a. CAM used to support all analytical data. ☑ b. CAM used to support some of the analytical data.

☐ c. CAM not used.

☐ 6. Check here to certify that the Class A, B or C Response Action Outcome includes a Data Usability Assessment and Data Representativeness Evaluation pursuant to 310 CMR 40.1056.

7. Estimate the number of acres this RAO Statement applies to: 2

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC104

RESPONSE ACTION OUTCOME (RAO) STATEMENT

Pursuant to 310 CMR 40.1000 (Subpart J)

Release Tracking Number
4 - 15490

G. 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 indicates that either an **RAO Statement, Phase I Completion Statement and/or Periodic Review Opinion** is being provided*, 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.

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 #: 1699

2. First Name: KEVIN J 3. Last Name: BEAULIEU

4. Telephone: 5088633102 5. Ext.: 6. FAX:

7. Signature: Kevin Beaulieu

8. Date: 03/26/2007
mm/dd/yyyy

9 LSP Stamp: COMMONWEALTH OF MASSACHUSETTS KEVIN J. BEAULIEU NO. 1699 REGISTERED LICENSED PROFESSIONAL

H. 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: COMMONWEALTH OF MASSACHUSETTS DEPT. OF FISH & GAME, DIV. OF MARINE FISH

3. Contact First Name: KEVIN 4. Last Name: CREIGHTON

5. Street: 251 CAUSEWAY STREET, SUITE 400 6. Title: CHIEF FISCAL OFFICER

7. City/Town: BOSTON 8. State: MA 9. ZIP Code: 02114-0000

10. Telephone: (617) 626-1537 11. Ext.: 12. FAX:

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC104

RESPONSE ACTION OUTCOME (RAO) STATEMENT

Pursuant to 310 CMR 40.1000 (Subpart J)

Release Tracking Number
4 - 15490

I. RELATIONSHIP TO RELEASE OR THREAT OF RELEASE OF PERSON MAKING SUBMITTAL:

☑ 1. RP or PRP ☑ a. Owner ☐ b. Operator ☐ c. Generator ☐ d. Transporter

☐ e. Other RP or PRP Specify:

☐ 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:

J. 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 an RAO Statement that relies on the public way/rail right-of-way exemption from the requirements of an AUL.

☑ 3. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the submittal of a RAO Statement with instructions on how to obtain a full copy of the report.

☑ 4. Check here to certify that documentation is attached specifying the location of the Site, or the location and boundaries of the Disposal Site subject to this RAO Statement. If submitting an RAO Statement for a PORTION of a Disposal Site, you must document the location and boundaries for both the portion subject to this submittal and, to the extent defined, the entire Disposal Site.

☑ 5. Check here to certify that, pursuant to 310 CMR 40.1406, notice was provided to the owner(s) of each property within the disposal site boundaries, or notice was not required because the disposal site boundaries are limited to property owned by the party conducting response actions. (check all that apply)

☐ a. Notice was provided prior to, or concurrent with the submittal of a Phase II Completion Statement to the Department.

☑ b. Notice was provided prior to, or concurrent with the submittal of this RAO Statement to the Department.

☐ c. Notice not required. d. Total number of property owners notified, if applicable: 1

☑ 6. Check here if required to submit one or more AULs. You must submit an AUL Transmittal Form (BWSC113) and a copy of each implemented AUL related to this RAO Statement. Specify the type of AUL(s) below: (required for Class A-3, A-4, B-2, B-3 RAO Statements)

☑ a. Notice of Activity and Use Limitation b. Number of Notices submitted: 1

☐ c. Grant of Environmental Restriction d. Number of Grants submitted:

☐ 7. If an RAO Compliance Fee is required for any of the RTNs listed on this transmittal form, check here to certify that an RAO Compliance Fee was submitted to DEP, P. O. Box 4062, Boston, MA 02211.

☐ 8. Check here if any non-updatable information provided on this form is incorrect, e.g. Site Address/Location Aid. Send corrections to the DEP Regional Office.

☑ 9. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC104

RESPONSE ACTION OUTCOME (RAO) STATEMENT

Pursuant to 310 CMR 40.1000 (Subpart J)

Release Tracking Number
4 - 15490

K. CERTIFICATION OF PERSON MAKING SUBMITTAL:

1. I, Kevin Creighton, 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.

2. By: Kevin Creighton (Signature) 3. Title: CHIEF FISCAL OFFICER

4. For: COMMONWEALTH OF MASSACHUSETTS DEPT. OF FISH & GA (Name of person or entity recorded in Section H) 5. Date: 3/17/2009 (mm/dd/yyyy)

☐ 6. Check here if the address of the person providing certification is different from address recorded in Section H.

7. Street: _____

8. City/Town: _____ 9. State: _____ 10. ZIP Code: _____

11. Telephone: _____ 12. Ext.: _____ 13. FAX: _____

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

BWSC108

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

Release Tracking Number
4 - 15490

A. SITE LOCATION:

1. Site Name: LOT 4
2. Street Address: BLACKMER ST
3. City/Town: NEW BEDFORD 4. ZIP Code: 027400000
5. UTM Coordinates: a. UTM N: b. UTM E:

☑ 6. Check here if a Tier Classification Submittal has been provided to DEP for this disposal site.

☐ a. Tier IA ☐ b. Tier IB ☐ c. Tier IC ☑ d. Tier II

7. If applicable, provide the Permit Number: _____

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 Response Action Outcome.

☐ b. The requirements of a Class A Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

☐ c. The requirements of a Class C Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

☐ d. The requirements of a Class C Response Action Outcome have been met. Further Operation, Maintenance or Monitoring of the remedial action is necessary to ensure that conditions are maintained and that further progress is made toward a Permanent Solution. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

(All sections of this transmittal form must be filled out unless otherwise noted above)

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 concurrent with a Status Report.

c. Status of Site: (check one) ☐ i. Phase V ☐ ii. Remedy Operation Status ☐ iii. Class C RAO

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 **Modification of a Remedy Operation Status**, pursuant to 310 CMR 40.0893(5).

☐ 20. Submit a **Termination of a Remedy Operation Status**, pursuant to 310 CMR 40.0893(6).

☐ 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 Class A Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement (BWSC104) will be submitted to DEP.

☐ b. The requirements of a Class C Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

☐ c. The requirements of a Class C Response Action Outcome have been met. Further Operation, Maintenance or Monitoring of the remedial action is necessary to ensure that conditions are maintained and/or that further progress is made toward a Permanent Solution. A completed Response Action Outcome 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 **Post-Class C Response Action Outcome Status Report**, pursuant to 310 CMR 40.0898.

(All sections of this transmittal form must be filled out unless otherwise noted above)

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Release Tracking Number
4 - 15490

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

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** 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 Post-Class C RAO Status Report, a Status Report to Maintain 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 #: 1699
2. First Name: KEVIN J
3. Last Name: BEAULIEU
4. Telephone: 5088633102
5. Ext.:
6. FAX:
7. Signature: Kevin Beaulieu
8. Date: 03/26/2009 (mm/dd/yyyy)
9. LSP Stamp:

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108

Release Tracking Number

4 - 15490

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

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: COMMONWEALTH OF MASSACHUSETTS, DEPT. OF FISH & GAME, DIV. OF MARINE FIS

3. Contact First Name: KEVIN 4. Last Name: CREIGHTON

5. Street: 251 CAUSEWAY STREET, SUITE 400 6. Title: CHIEF FISCAL OFFICER

7. City/Town: BOSTON 8. State: MA 9. ZIP Code: 021140000

10. Telephone: 6176261537 11. Ext.: 12. FAX:

E. RELATIONSHIP TO SITE OF PERSON UNDERTAKING RESPONSE ACTIONS:

☑ 1. RP or PRP ☑ a. Owner ☐ b. Operator ☐ c. Generator ☐ d. Transporter

☐ e. Other RP or PRP Specify:

☐ 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 Modification of a Remedy Operation Status, check here to certify that a statement detailing the compliance history, as per 310 CMR 40.0893(5), for the person making this submittal is attached.

☐ 7. If submitting a Modification of a Remedy Operation Status, check here to certify that written consent of the person who submitted the Remedy Operation Status submittal, as per 310 CMR 40.0893(5), is attached.

☐ 8. Check here if any non-updatable information provided on this form is incorrect, e.g. Site Name. Send corrections to the DEP Regional Office.

☑ 9. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Release Tracking Number
4 - 15490

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

G. CERTIFICATION OF PERSON UNDERTAKING RESPONSE ACTIONS:

1. I, Kevin Creighton, 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.

2. By: [signature] Signature

3. Title: CHIEF FINANCIAL OFFICER

4. For: COMMONWEALTH OF MASSACHUSETTS, DEPT. OF FISH & G
(Name of person or entity recorded in Section D)

5. Date: 3/17/2009 (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. FAX: _____

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

BWSC113

ACTIVITY & USE LIMITATION (AUL) TRANSMITTAL FORM

Pursuant to 310 CMR 40.1056 & 40.1070 - 40.1084 (Subpart J)

Release Tracking Number
4 - 15490

A. DISPOSAL SITE LOCATION:

1. Disposal Site Name: LOT 4

2. Street Address: BLACKMER ST

3. City/Town: NEW BEDFORD 4. ZIP Code: 027400000

☑ 5. Check here if a Tier Classification Submittal has been provided to DEP for this disposal site.
☐ a. Tier 1A ☐ b. Tier 1B ☐ c. Tier 1C ☑ d. Tier 2

6. If a Tier I Permit has been issued, provide Permit Number: _____

B. THIS FORM IS BEING USED TO: (check one)

☑ 1. Submit a certified copy of a **Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1074.

☐ 2. Submit an **Evaluation of Changes in Land Uses/Activities and/or Site Conditions after a Response Action Outcome Statement** has been filed pursuant to 310 CMR 40.1080.

☐ 3. Submit a certified copy of an **Amended Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1081

☐ 4. Submit a certified copy of a **Partial Termination of a Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1083(3).

☐ 5. Submit a certified copy of a **Termination of a Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1083(1)(d).

☐ 6. Submit a certified copy of a **Grant of Environmental Restriction**, pursuant to 310 CMR 40.1071.

☐ 7. Submit a certified copy of an **Amendment of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1081(3).

☐ 8. Submit a certified copy of a **Partial Release of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1083(2).

☐ 9. Submit a certified copy of a **Release of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1083(1)(c).

☐ 10. Submit a certified copy of a **Confirmatory Activity and Use Limitation**, pursuant to 310 CMR 40.1085(4).

11. Provide Additional RTNs:

☐ a. Check here if this AUL Submittal covers additional Release Tracking Numbers (RTNs).

b. Provide the additional Release Tracking Number(s) covered by this AUL Submittal. ☐ - ☐ ☐ - ☐

(All sections of this transmittal form must be filled out unless otherwise noted above. BWSC113A is required for all submittals listed above)

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC113

ACTIVITY & USE LIMITATION (AUL) TRANSMITTAL FORM

Pursuant to 310 CMR 40.1056 & 40.1070 - 40.1084 (Subpart J)

Release Tracking Number
4 - 15490

C. AUL INFORMATION:

1. Document (per Section B) Recording and/or Registration Information:

   a. Name of Registry of Deeds and/or Land Registration Office: **BRISTOL COUNTY**

   b. Book and Page Number and/or Document Number: **BOOK 9289, PAGE 7**

   c. Date of recording and/or registration: **3/9/2009** mm/dd/yyyy

2. Is the address of the property subject to AUL different from the disposal site address listed above?

   ☐ a. No ☑ b. Yes If yes, then fill out address section below.

3. Street Address: **16 BLACKMER STREET**

4. City/Town: **NEW BEDFORD** 5. ZIP Code: **027190000**

D. PERSON SUBMITTING AUL TRANSMITTAL FORM:

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: **COMMONWEALTH OF MASSACHUSETTS DEPT. OF FISH & GAME - DIV. OF MARINE FIS**

3. Contact First Name: **KEVIN** 4. Last Name: **CREIGHTON**

5. Street: **251 CAUSEWAY STREET, SUITE 400** 6. Title: **CHIEF FINANCIAL OFFICER**

7. City/Town: **BOSTON** 8. State: **MA** 9. ZIP Code: **021140000**

10. Telephone: **6176261537** 11. Ext.: 12. FAX:

13. Is the person described in this section the owner of the property?

    ☑ a. Yes ☐ b. No , if checked then Section G must be filled out by at least one owner.

    ☐ c. Check here if providing names and addresses of any additional owners in an attachment.

E. RELATIONSHIP TO DISPOSAL SITE OF PERSON SUBMITTING AUL TRANSMITTAL FORM: (check one)

☑ 1. RP or PRP ☑ a. Owner ☐ b. Operator ☐ c. Generator ☐ d. Transporter

☐ e. Other RP or PRP Specify:

☐ 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 Submitting AUL Specify:

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC113

ACTIVITY & USE LIMITATION (AUL) TRANSMITTAL FORM

Pursuant to 310 CMR 40.1056 & 40.1070 - 40.1084 (Subpart J)

Release Tracking Number
4 - 15490

F. REQUIRED ATTACHMENT AND SUBMITTALS:

☐ 1. Check here to certify that notice of the proposed Activity and Use Limitation (AUL) was given to all record-interest holders, if any, in accordance with 310 CMR 40.1074(1)(e), via certified mail.

☑ a. Check here if there were no record interest holders. b. Date of certified mailing: _____ mm/dd/yyyy

☐ c. Check here to certify that names and addresses of all record holders notified is attached.

☑ 2. Check here to certify that within 30 days of recording and/or registering the AUL, including amending, releasing or terminating the AUL, a copy of the AUL was/will be provided to the Chief Municipal Officer, the Board of Health, the Zoning Official, and the Building Code Enforcement Official in the community(ies) where the the property subject to such Activity and Use Limitation is located.

☑ 3. Check here to certify that within 30 days of recording and/or registering the AUL, including amending, releasing or terminating the AUL, a Legal Notice was/will be published in a newspaper with circulation in the community(ies) where the property subject to the AUL is located.

☑ 4. Check here to certify that within 7 days of publishing a Legal Notice in a newspaper with circulation in the community(ies) where the property subject to the AUL is located, a copy of the notice was/will be submitted to DEP.

☑ 5. Check here to certify that within 30 days of recording and/or registering the AUL, including amending, releasing or terminating the AUL, a certified copy of the AUL, including the LSP Opininon containing the material facts, data, and other information, will be submitted to DEP.

☐ 6. Check here if any non-updatable information provided on this form is incorrect, e.g. Site Address/Location Aid. Send corrections to the DEP Regional Office.

☐ 7. If an **Evaluation of Changes in Land Uses/Activities and/or Site Conditions after a Response Action Outcome Statement** is being submitted, check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.

G. CERTIFICATION OF OWNER OF PROPERTY, IF NOT PERSON SUBMITTING AUL TRANSMITTAL FORM:

1. I, _____, attest under the pains and penalties of perjury that I am the owner of said property(ies), subject to the AUL

2. _____ 3. Date: _____
Signature mm/dd/yyyy

4. Name of Organization: _____

5. Contact First Name: _____ 6. Last Name: _____

7. Street: _____ 8. Title: _____

9. City/Town: _____ 10. State: _____ 11. ZIP Code: _____

12. Telephone: _____ 13. Ext.: _____ 14. FAX: _____

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC113

ACTIVITY & USE LIMITATION (AUL) TRANSMITTAL FORM

Pursuant to 310 CMR 40.1056 & 40.1070 - 40.1084 (Subpart J)

Release Tracking Number
4 - 15490

H. CERTIFICATION OF PERSON MAKING SUBMITTAL:

1. I, Kevin Creighton, 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.

Pursuant to 310 CMR 40.1074 (1)(f), I also hereby certify under penalties of perjury, that either I (if person submitting the AUL Transmittal Form is the property owner), or

Commonwealth of Mass. Dept. of Fish & Game

2. Name of Property Owner

am/is identified on the Notice of AUL as the owner of the property subject to the AUL, owned such property on the date that the AUL was recorded and /or registered

3. By: [signature] 4. Title: CHIEF FINANCIAL OFFICER

Signature

5. For: COMMONWEALTH OF MASSACHUSETTS DEPT. OF FISH & GA 6. Date: 3/17/2009

(Name of person or entity recorded in Section D) mm/dd/yyyy

☐ 7. Check here if the address of the person providing certification is different from address recorded in Section D.

8. Street: _____

9. City/Town: _____ 10. State: _____ 11. ZIP Code: _____

12. Telephone: _____ 13. Ext.: _____ 14. FAX: _____

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

BWSC113A

ACTIVITY & USE LIMITATION (AUL) OPINION FORM

Pursuant to 310 CMR 40.1056 & 40.1070 - 40.1084 (Subpart J)

Release Tracking Number
4 - 15490

A. DISPOSAL SITE LOCATION:

1. Disposal Site Name: LOT 3 - FORMER STANDARD TIMES SITE

2. Street Address: **BLACKMER ST**

3. City/Town: **NEW BEDFORD** 4. ZIP Code: **02740-0000**

B. THIS FORM IS BEING USED TO: (check one)

✓ 1. Provide the LSP Opinion for a **Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1074.

☐ 2. Provide the LSP Opinion for an **Evaluation of Changes in Land Uses/Activities and/or Site Conditions after a Response Action Outcome Statement,** pursuant to 310 CMR 40.1080. Include BWSC113A as an attachment to BWSC113. Section A and C do not need to be completed.

☐ 3. Provide the LSP Opinion for an **Amended Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1081(4).

☐ 4. Provide the LSP Opinion for a **Partial Termination of a Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1083(3) .

☐ 5. Provide the LSP Opinion for a **Termination of a Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1083(1)(d).

☐ 6. Provide the LSP Opinion for a **Grant of Environmental Restriction**, pursuant to 310 CMR 40.1071.

☐ 7. Provide the LSP Opinion for an **Amendment of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1081(3).

☐ 8. Provide the LSP Opinion for a **Partial Release of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1083(2).

☐ 9. Provide the LSP Opinion for a **Release of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1083(1)(c).

☐ 10. Provide the LSP Opinion for a **Confirmatory Activity and Use Limitation**, pursuant to 310 CMR 40.1085(4).

(Unless otherwise noted above, all sections of this form (BWSC113A) must be completely filled out, printed, stamped, signed with black ink and attached as an exhibit to the AUL Document to be recorded and/or registered with the Registry of Deeds and/or Land Registration Office.)

C. AUL INFORMATION:

1. Is the address of the property subject to AUL different from the disposal site address listed above?

a. No ✓ b. Yes If yes, then fill out address section below.

2. Street Address: **16 BLACKMER STREET**

3. City/Town: **NEW BEDFORD** 4. ZIP Code: **02719-0000**

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC113A

ACTIVITY & USE LIMITATION (AUL) OPINION FORM

Pursuant to 310 CMR 40.1056 & 40.1070 - 40.1084 (Subpart J)

Release Tracking Number
4 - 15490

D. 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 indicates that a **Notice of Activity and Use Limitation** is being registered and/or recorded*, the Activity and Use Limitation that is the subject of this submittal (i) is being provided in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 310 CMR 40.1074;

> *if Section B indicates that an **Evaluation of Changes in Land Uses/Activities and/or Site Conditions after a Response Action Outcome Statement*** is being submitted, this evaluation was developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 310 CMR 40.1080;

> *if Section B indicates that an **Amended Notice of Activity and Use Limitation or Amendment to a Grant of Environmental Restriction** is being registered and/or recorded*, the Activity and Use Limitation that is the subject of this submittal (i) is being provided in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 40.1081;

> *if Section B indicates that a **Termination or a Partial Termination of a Notice of Activity and Use Limitation, or a Release or Partial Release of a Grant of Environmental Restriction** is being registered and/or recorded*, the Activity and Use Limitation that is the subject of this submittal (i) is being provided in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 310 CMR 40.1083;

> *if Section B indicates that a **Grant of Environmental Restriction** is being registered and/or recorded*, the Activity and Use Limitation that is the subject of this submittal (i) is being provided in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 310 CMR 40.1071;

> *if Section B indicates that a **Confirmatory Activity and Use Limitation** is being registered and/or recorded*, the Activity and Use Limitation that is the subject of this submittal (i) is being provided in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 310 CMR 40.1085(4);

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 #: 1699

2. First Name: KEVIN J 3. Last Name: BEAULIEU

4. Telephone: (508) 863-3102 5. Ext.: 6. FAX:

7. Signature: Kevin Beaulieu 8. Date: 03/05/2009 (mm/dd/yyyy)

9. LSP Stamp:

COMMONWEALTH OF MASSACHUSETTS
KEVIN J. BEAULIEU
NO. 1699
REGISTERED
LICENSED SITE PROFESSIONAL

Wave 2 Environmental, Inc.
Phone (508) 863-3102
Fax (508) 300-0456

eDEP - AUTHORIZATION AGREEMENT

DATE: **March 17, 2009**

PRP: ***Commonwealth of Massachusetts Department of Fish & Game***
RTN 4-15490
16 Blackmer Street
New Bedford, Massachusetts

As the Potential Responsible Party (PRP) for the above referenced state release site, Kevin J. Beaulieu of Wave 2 Environmental, Inc. (LSP #1699), has been employed through Common Sense Environmental, Inc., to act on my behalf as the LSP-of-Record regarding environmental services relating to the requirements of Massachusetts General Laws (MGL) 21E and the Massachusetts Contingency Plan (310 CMR 40.000). I am aware that from time to time, the submittal of certain reports and associated transmittal forms (Forms) are required to ensure continued administrative regulatory compliance with said regulations. It is further understood that these Forms require a signed written declaration by both the PRP *and* the LSP-of-Record to satisfy the submittal certification requirements of 310 CMR 40.0009. It is acknowledged by my signature below and on the attached Forms that the LSP forwarded said Forms to me for review prior to submission to the Massachusetts Department of Environmental Protection (DEP). I further acknowledge that review of the content of such Forms is required by the DEP and, in the event that clarification regarding the interpretation of said content was necessary, contact was made with the LSP for further clarification prior to signing said forms. By signing below, I authorize the LSP-of-Record to sign my name electronically on my behalf during electronic submittal of the attached signed transmittal Forms to DEP. I acknowledge that this authorization to allow the LSP to sign on my behalf does not impute any responsibility to the LSP pursuant to MGL 21E Section 5. All references to I or we herein are to the PRP.

Accepted:

Kevin Creighton, Chief Fiscal Officer
Commonwealth of Massachusetts
Department of Fish & Game

3/17/2009
Date

Attachments:
-BWSC 104 Response Action Outcome Transmittal Form
-BWSC 108 Comprehensive Response Action Transmittal Form
-BWSC 113 Activity & Use Limitation Transmittal Form

PO Box 1549
Fall River, MA 02722

Phase II Comprehensive Site Assessment
Phase III Remedial Action Plan
&
Class A3 Response Action Outcome

Release Tracking Number: 4-15490
Map 25A, Lots 49 and 53
(Formerly known as Lot 3)
16 Blackmer Street
New Bedford, Massachusetts 02740

Prepared for:
Commonwealth of Massachusetts
Department of Fish and Game
Division of Marine Fisheries
251 Causeway Street
Suite 400
Boston, Massachusetts 02114

Prepared by:
Common Sense Environmental, Inc.
50 Theresa Street
South Dartmouth, Massachusetts 02748
508-991-3491

March 27, 2009

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1.0 INTRODUCTION

The Massachusetts Contingency Plan 310 CMR 40.0000 (MCP) provides rules for the reporting, assessment and cleanup of oil/hazardous material release(s) into the environment. The Commonwealth of Massachusetts/Department of Fish and Game/Division of Marine Fisheries currently owns the Property addressed as 16 Blackmer Street located in the City of New Bedford, Massachusetts. The Property is depicted on Assessors Map 25A as Lots 49 and 53 and was previously known as Lot 3 of the former New Bedford Standard Times Field Site. During Property redevelopment activities in 1999 and 2000, concentrations of polynuclear aromatic hydrocarbons (PAHs) and lead in Property soil, and polychlorinated biphenyls (PCBs) in Property groundwater, were reportedly detected above applicable RCS-2 and RCGW-2 reportable concentrations (RCs). The Massachusetts Department of Environmental Protection (DEP) was notified of the release condition on May 19, 2000, and assigned Release Tracking Number (RTN) 4-15490 to the release Site.

After purchase of the subject Property from the City of New Bedford, the Division of Marine Fisheries contracted Common Sense Environmental, Inc. (Common Sense) to evaluate the extent of contamination related to a historic release of oil and hazardous materials (OHM) and to return the site to compliance with current MCP requirements. Common Sense collected additional soil and groundwater data to supplement the pre-existing Site data and a Phase I Completion Statement/Tier II Classification was filed on May 23, 2006 on behalf of the new property owner. The owner purchased the non-compliant release Site for the purpose of immediately redeveloping the lot for use as a parking lot and for the eventual construction of a commercial use structure. In order to facilitate this development plan, a Partial B1 Response Action Outcome was filed for the north area of the property on July 31, 2006 (CSE, 2006). A Release Abatement Measure (RAM) Plan was also developed and filed for the southern portion of the Property on April 14, 2008, to allow for the placement of a paved parking lot over an area of lead impacted urban fill materials (CSE, 2008).

This report has been completed by Common Sense Environmental, Inc. under the direction of Mr. Kevin J. Beaulieu, who is certified as a Licensed Site Professional (LSP#1699) by the Massachusetts Board of Registration of Hazardous Waste Property Cleanup Professionals as mandated by M.G.L. Chapter 21E. This report and supporting data document the collection, development and evaluation of information sufficient to support conclusions and opinions regarding the Site (as currently defined) with respect to:

- the known source, nature, extent, and potential impacts of release;
- the potential risk of harm posed by the disposal Site to health, safety, public welfare and the environment; and
- the determination of the need for potential further remedial actions at the disposal Site.

A separate Method 3 Risk Assessment prepared by O'Reilly, Talbot & Okun Associates (OTO), dated October 30, 2008 has been discussed and provided with this report to satisfy the requirements of a Phase II CSA per the MCP. The following sections of the present the results of our background research, regulatory file review, subsurface investigation, conclusions and recommendations.

See Figure 1
(for reference only)

2.0 GENERAL INFORMATION

DEP Release Tracking Number:	4-15490
Location:	Vacant lots - Map 25A, Lots 49 and 53 (formerly known as Lot 3) 16 Blackmer Street New Bedford, Massachusetts 02719
Latitude: *Longitude:*	41° 37' 16" North (4609282.675 UTM) 70° 54' 57" West (340386.32 UTM)
Persons conducting response actions:	Commonwealth of Massachusetts Department of Fish and Game Division of Marine Fisheries 251 Causeway Street, Suite 400 Boston, Massachusetts 02114 Kevin Creighton, Chief Fiscal Officer 617-626-1537
Licensed Site Professional:	Kevin J. Beaulieu, LSP #1699 On behalf of Common Sense Environmental, Inc. 50 Theresa Street South Dartmouth, MA 02748 (508) 991-3491

Figure 1 - Property Locus provides the location of the Property along the western shore of the New Bedford Harbor in the City of New Bedford, Bristol County, Massachusetts. The undeveloped Property is situated in a densely populated area, which is currently being developed

for industrial purposes. It is depicted on Assessors Map 25A as Lots 49 and 53 and consists of approximately 3.41 acres (148,752 square feet) of land. Lot 49 consists of 95,197 square feet and Lot 53 consists of 53,555 square feet. The Property was previously known as Lot 3 and has approximately 426 feet of frontage at Blackmer Street.

2.1 Surrounding Environment

Zoning and Population

The Property is located on land zoned as "Industrial B" and is within an area designated by the City of New Bedford as the "Working Waterfront Overlay District". A variety of industrial uses are permitted in industrial B zones and the "Working Waterfront Overlay District" is intended for use by marine-related industrial activities (e.g., fish processing or related activities). Based on 2000 census data, the City of New Bedford has a population density of nearly 12,163 persons per square mile.

Utilities

Electricity is provided to the Property by overhead cables along South First Street and by underground cables along Blackmer Street. The lots surrounding the Property are serviced with natural gas, and municipal sewer, storm water, and drinking water via subsurface utilities along Blackmer Street. The source of drinking water for the City of New Bedford is Little Quittacas Pond located in Rochester, Massachusetts, located approximately 11.5 miles north of the Property. According to an interview with the New Bedford Board of Health, there are no known private drinking water wells within 500 feet of the Property.

Adjacent Land Use and Natural Resource Areas

The adjacent lots are utilized for commercial/industrial use. Adjacent land use on the north abutting lot includes the New Bedford Radio Incorporated antenna tower. Blackmer Street, beyond which is Fresh Express Seafood packaging plant, abuts the Property to the west. The south abutting lot consists of a 30-foot wide unimproved drainage easement owned by the City of New Bedford, beyond which is Fleet Fisheries fish packaging plant. New Bedford Harbor/New Bedford Harbor lies adjacent to the east Property boundary. The New Bedford Harbor flows south to the New Bedford Inner Harbor. Reports by others' indicate that the Property and abutting lots are all portions of the former New Bedford Standard Times Site which was reportedly razed in the 1930's.

See Figure 2
(for reference only)

Prior to construction and grading activities at the surrounding lots, storm water drainage occurred primarily via infiltration in unpaved areas, with some possible sheet flow along the eastern Property area to the New Bedford Harbor. Storm drains were observed on Blackmer Street and Silva Street. A City storm water outfall extends along the southern boundary of the Property and discharges to the New Bedford Inner Harbor. No lagoons, pools, or surface waters were observed on the Property. Groundwater flow direction is inferred to be to the east-southeast.

Lots 49 and 53 are located within the 100 and 500-year flood zones. Base flood elevations have been established for the area.

Area Receptors

According to the MassGIS map **(Figure 3)** the Property does not lie within a Zone II, interim Wellhead Protection Area, Sole Source Aquifer, Potential Drinking Water Source Area, Zone A of a Class A surface water body or Area of Critical Environmental Concern. According to the New Bedford Board of Health, there are no private drinking water wells are known to exist within 500-feet of the subject Property. The Property is located within the FEMA 100-year floodplain, and portions of the Property are located within the 500-year floodplain.

See Figure 3
(for reference only)

The nearest Massachusetts protected open space is Ben Rose field located approximately 500 feet to the southwest of the Property. As defined under 310 CMR 40.0006, there are no schools, daycare centers, hospitals, or nursing homes located within 500 feet of the Property per the May 6, 2000 FirstSerach Report presented in the Phase I report (CSE, 2006).

Nearby Release Sites

Sanborn fire insurance maps of the Property area included in the previously submitted CSE Phase I report indicate several former structures and/or features of interest. A former gasholder and equipment building, possibly associated with a coal gasification plant are shown north of the northern Property boundary. A former coal storage bin is also indicated off-Property on the north abutting lot, approximately 220 feet to the west. A former transformer is also shown off-Property in the northeast portion of Lot 7, approximately 250 feet to the southwest. A former 150,000 gallon oil storage tank was reportedly located approximately 700 feet to the southwest of the Property. Historic maps on record with the City of New Bedford indicate that a 24-inch storm drain and 12-inch abandoned sewer line are located within Blackmer Street and the southern abutting City owned drainage easement. The storm drain extends and discharges to the New Bedford Harbor/New Bedford Harbor. The abandoned sewer line terminates approximately 40 feet from the waters edge. No indication of a pump chamber or station was revealed,

implying that the sewer main may have historically discharged to the abutting water body as well.

A review of state and local regulatory agencies was conducted to identify permits and compliance history relative to the use, generation, storage, treatment, disposal and release of OHM at and in the immediate vicinity the Property. Other information was additionally reviewed to assess if there were nearby listed disposal sites or spills with the potential to impact the subject Property, including the use of an electronic database service provided by FirstSearch Technology. A copy of the FirstSearch Report is included in the previously submitted CSE Phase I report. Information regarding nearby properties of environmental concern are summarized below.

New Bedford Acushnet Estuary, abuts Property to east, New Bedford, MA
National Priority List (NPL) Property

The Acushnet Estuary site extends from the shallow northern trenches of the New Bedford Harbor estuary south through the commercial harbor of New Bedford. New Bedford is currently homeport to a large offshore fishing fleet and is a densely populated manufacturing and commercial center. From the 1940s and into the 1970s two electric capacitor manufacturing facilities discharged PCB wastes either directly into the harbor or indirectly via discharges to the City's sewerage system. Subsequently, the harbor is contaminated at least 6 miles from the upper New Bedford Harbor to Buzzards Bay. Ambient air, surface water, groundwater, soils, sediments, and the food chain are contaminated, with high concentrations of many pollutants, most notably polychlorinated biphenyls (PCBs) and heavy metals. The New Bedford Harbor/New Bedford Harbor is located along the east Property boundary and is judged as likely to represent potential environmental conditions of concern to the Property.

Lot 4, Blackmer Street, abuts the Property to south, New Bedford, MA
State Spills Site

Cygnus Group completed a Class B1 Response Action Outcome (RAO) at the Lot 4 site on November 8, 2000 (Cygnus 2000). Lot 4 is situated beyond the southern abutting City drainage easement and was originally co-joined with the subject Property and a part of the assigned Release Tracking Number 4-15490. The RAO was filed to demonstrate that site contaminants, including PAHs and lead in soil, were related to urban fill containing coal ash and were accordingly consistent with background. The RAO indicates that remedial measures were not deemed necessary nor conducted and Activity and Use Limitations are not required to maintain a level of no significant risk. It is noted that this release site was tracked by the DEP under the same RTN as the subject Property and it is unclear how this portion of the overall release site was subdivided and closed without the submittal of a partial-RAO. Regardless of the process employed, the subject Property was broken away from the overall release site and the RTN was

left open so as to affect a separate response for the abutting drainage easement and Lot 3. Relevant report excerpts are presented in Appendix D of the CSE Phase I report.

Lisbon Auto Repair, approximately 750 feet west-southwest of the Property

Previous subsurface investigation activities conducted by M&E, including soil sampling and installation and sampling of monitoring well GW-03 on Standard Times Field Lot 9, were designed to evaluate the potential for impact from Lisbon Auto Repair. M&E concluded that no impact on Standard Times Field Site from Lisbon Auto Repair was found. Based on review of the topographic map, visual observation of the Lisbon Auto Repair site in relation to the Property and the M&E data previously discussed, the Lisbon Auto Repair is judged as unlikely to represent potential environmental conditions of concern to the subject Property.

The Mutual Service Station at 56 Potomska Street (RTN 4-13706) and Southeast Transit Authority (STA) facility at 65 Potomska Street (RTN 4-13706)

Both of the sites had former petroleum UST releases and are located hydraulically upgradient to and an estimated 900 to 1,200 feet west-northwest of the Property. After reviewing the MADEP file, and following installation and sampling of monitoring well GW-04 on Lot 1B, M&E concluded that there was no evidence that the Standard Times Field Site had been impacted by off-Property releases from Mutual Service Station or STA. Further, a Class A2 RAO was completed at the Mutual Service Station in 1996. A Class A-2 RAO indicates that a permanent solution has been achieved and no significant risk exists. Common Sense judges the sites as unlikely to represent potential environmental conditions of concern to the subject Property based on the M&E data and the A2 RAO.

C.P. Brodeur at 80 Wright Street, approximately 0.17 miles northwest of the Property

C.P. Brodeur is a very small quantity generator of hazardous waste. Based upon its location being similar to that of Mutual Service Station, the M&E site assessment activities described above for the Mutual Service Station are believed to have been adequate to assess potential impacts from this location. Further, C.P. Brodeur does not abut the Property and is judged as unlikely to represent potential environmental conditions of concern to the Property.

2.2 Property Description

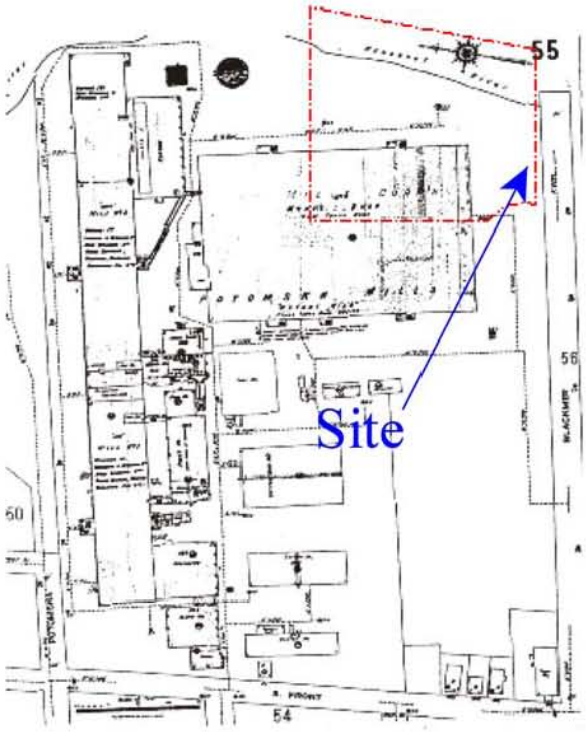
The 3.41 acre Property is located at the east termination of Blackmer Street in a heavily developed commercial, light industrial and residential section of New Bedford, Massachusetts **(see Figures 1 & 2)**. The vacant, rectangular-shaped Property is located at the east termination of Blackmer Street, along the west bank of the New Bedford Harbor waterfront. The southwest area of the generally-level Property is currently covered by asphalt pavement installed as part of the aforementioned RAM plan. The majority of the property is enclosed by a chain link fence. The remaining Property area is covered by graded soils and mature vegetation. No other

structures were observed at the property there is no present use or storage of OHM at the Property.

2.2.1 Owner and Operations History

The subject Property has been vacant circa 1930 to 2008, following demolition of mill buildings that occupied the Property from the 1880's to the 1930's and it previously formed the northeastern portion of the 25.5 acre Standard Times Field Site. From 1946 through 1966, the Property and surrounding lots were undeveloped open space owned by E. Anthony and Sons, Inc. who, at that time, also owned the New Bedford Standard Times newspaper. Several different owners are recorded for the Property between 1966 and 1998, when it became the property of the City of New Bedford. The City of New Bedford Redevelopment Authority acquired the Standard Times Field Site in 1998. The Commonwealth of Massachusetts, acting through its Department of Fish and Game, acquired the Property which was subdivided from the encompassing Standard Times site in July 2005. Several easements are noted in the deed.

The Property is currently vacant, and has reportedly been undeveloped space since the 1930's. According to Sanborn fire insurance maps, historical uses of the Property have included millwork from the 1880's through 1924. The mill structures were reportedly demolished between 1924 and 1935. No record of building demolition was found. In general, the textile industry boomed throughout the region during the late 1800's but essentially collapsed during the great depression. No documentation was found regarding former OHM use or storage but records indicate that the mill produced textiles and the building which encroached on the subject parcel was a weaving shed. There is no record of Property use and no indication of permanent structures on the Property from the 1930's through the present, with one exception. In 1963, the U.S. Army Corps of Engineers (USACE) used the Property as a staging area for construction of the nearby Hurricane Barrier. Copies of several referenced historic maps are presented in Figures 4 through 6.



See Figure 5
(for reference only)

3.0 RELEASE RESPONSE ACTION HISTORY

Environmental assessment activities for the all encompassing Standard Times property generally began in the mid to late 1980's and evolved over the following years with focus placed on specific areas of interest identified during previous investigations. The assessment process, findings and conclusions have been fully documented in several previously submitted reports including the Phase I report prepared by CSE in May 2006. The following MCP site assessment and response action highlights are provided for ease of reference and to present this report as a stand alone document.

3.1 Phase I Assessment

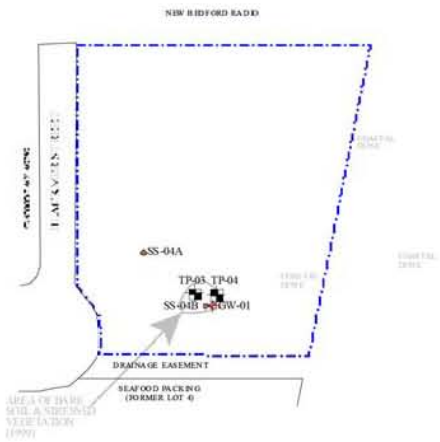
3.1.1 Metcalf & Eddy, Inc

In January 2000, Metcalf & Eddy, Inc. (M&E), in conjunction with EPA and City of New Bedford redevelopment efforts, prepared a Brownsfield Targeted Site Assessment (BTSA) Draft Report for the overall 25.5 acre Standard Times Field Site including a limited assessment of potential areas of concern located within the boundaries of the subject Property. M&E specifically observed an area of stained gravel with stressed vegetation, coal ash and capacitor debris in the southwest Property area. Mounds and ditches of excavated earth, boulders, and building demolition debris (brick, concrete, tile, roofing material, and asphalt) were observed throughout the remainder of the subject Property area. The report also referenced previous environmental assessments, including two previous test pit investigations (completed by Kurz Associates in 1986 & GZA in the early 1990's) which identified measureable concentrations of PCBs, fuel oil and Oil & Grease on the overall Standard Times Site. Specific sample locations or plans for the previous work were not provided in the reviewed report and it could not be determined if the subject Property was specifically included in the assessment. Although report excerpts from the reviewed M&E report were provided in the Phase I report, Appendix A contains information that was deemed to be relevant to the requirements of a Phase II Report.

Although the majority of the M&E assessment was completed to assess high risk areas of the overall Standard Times site not located on the subject Property, the portion of the investigation specific to the subject Property focused on the above referenced area of stressed vegetation and bare soil. Two test pits, two surface soil sampling locations and the installation of one temporary groundwater monitoring well were completed to assess for the presence of potential contaminants. Two test pits (TP-03 and TP-04) were excavated to visually inspect soil types and to search for buried debris and additional capacitors that were noted on the ground surface. In one of the test pits (TP-04), "capacitor-like" materials were reported in the text of the report but not in the provided test pit logs (Appendix A). In addition, the report narrative describes the presence of wood planks at approximately 4-5 feet below ground surface that were associated with the potential presence of former bulk heads or piers. No soil samples were collected for laboratory analysis from either test pit. Soil descriptions for one of the two surface soil samples collected from the suspect area (SS-04B) noted capacitor debris and coal ash. Urban fill was

noted in three of the four soil sample locations. The two surface soil samples were laboratory analyzed for EPH/VPH, PCBs, 23 Metals, cyanide, Pesticides, PAHs, SVOCs and VOCs. Although low levels of metals, petroleum (EPH fractions), PCB's and pesticides were detected in the analyzed samples, MCP Reportable Concentrations (RCs) were only exceeded for benzo(a)pyrene and lead. No VPH, cyanide or VOCs were measured. Sampling of surface debris (roofing tar, tiles and transient-type material) in the area of SS-04B for asbestos analysis confirmed the presence of chrysotile in one of the three sampled items (transient type material).

The following table provides a condensed summary of data generated for the subject Property during this assessment phase. The table only contains contaminants and sample locations extracted from Table 1 of this report that exceed current MCP RCS-1 reportable concentrations (April 2008). Associated laboratory reports were not available.



See Figure 8
(for reference only)

Analytical Summary Table
(all results reported in ppm (mg/kg))

SAMPLE IDENTIFICATION	SS-04A**	SS-04B**	MCP Reportable Concentrations	
SAMPLE DEPTH (FT)	0-3	0-3		
COLLECTION DATE	09/28/99	09/28/99	RCS-1	RSC-2
Phenanthrene	**11**	**14**	10	1000
Acenaphthylene	**1.2**	0.7	1	10
Benz[a]Anthracene	**8.9**	**10**	7	40
Benzo[b]Fluoranthene	**7.7**	**9.1**	7	40
Benzo[a]Pyrene	**8.2**	**11**	2	4
Indeno[1,2,3-c,d]Pyrene	**7.5**	**7.4**	7	40
Dibenzo[a,h]Anthracene	**7.5**	**2.5**	0.7	4
Lead	**3640**	**379**	300	300

Notes: (1) **Bold** = exceeds RCS-1 Criteria
(2) **Bold** = exceeds RCS-2 Criteria

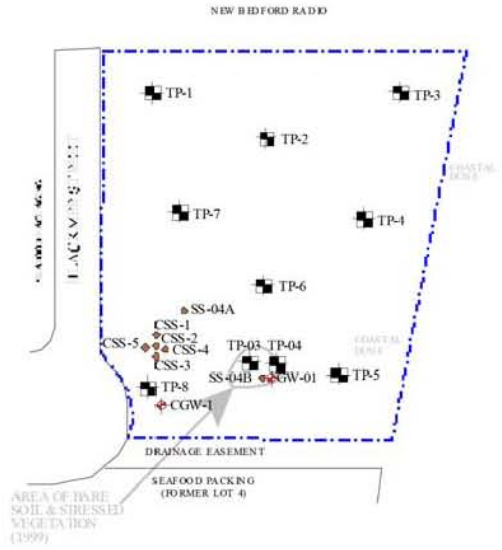
One temporary groundwater monitoring well (GW-01) placed near the SS-04 location was also installed and sampled for laboratory analysis. The single groundwater sample was chemically analyzed for VPH/EPH, Pesticides, PCBs, 23 Metals (dissolved) and Cyanide. Although low levels of petroleum (EPH/VPH fractions), PCB's and pesticides were detected in the analyzed sample, MCP Reportable Concentrations (RCs) were only exceeded for PCB's at the time of notification. However, comparison of all detected analytes to current MCP reportable concentrations identified no exceedances (as the PCB standard for RCGW-2 sites was increased from 0.3 to 5.0 ppb in April 2008. A summary of the groundwater data is provided in Table 2 of this report. It is noted that a survey elevation completed by M&E on groundwater on the overall Standard Times site confirmed that groundwater flows southeasterly toward the New Bedford Harbor/New Bedford Harbor.

3.1.2 Cygnus Group Inc.

Between March and May 2000, Cygnus Group performed an additional subsurface investigation to further evaluate subsurface conditions on the subject Property. Additional investigations were also performed on other lots comprising the Standard Times Field Site; however only those activities and data pertinent to the subject Property is discussed. Although report excerpts from the reviewed Cygnus report were provided in the Phase I report, Appendix A contains extracted information that was deemed to be relevant to the requirements of a Phase II Report.

The additional site assessment activities included the advancement of 5 soil probes (CSS-1 through CSS-5), one soil boring with a groundwater monitoring well (CGW-1) and eight shallow test pits (TP-1 through TP-8). The locations of these sampling points are shown on **Figure 8**. The methodology for the subsurface investigation was designed to supplement and expand the data collected in the above described in Metcalf & Eddy assessment.

The five soil probes were advanced near the former M&E sampling location SS-04A, where elevated lead levels had been previously reported. Split spoon soil samples were collected at 3-foot intervals to overall depths of 6 feet. Soil samples were screened for total volatile organic compounds (TVOCs) based on visual and olfactory observations using MADEP jar headspace soil screening method. No headspace screening results exceeded 0.4 ppm, indicating volatile organic compounds (VOCs) were not a contaminant of concern. One composite sample was collected from the 0-3 foot depth and a second composite sample was collected from the 3-6 foot depth. Each sample was submitted for laboratory analysis for total lead. One sample (CSS-2) was submitted for analysis of EPH with target PAH analyses. Cygnus also oversaw advancement of one soil boring designated as CGW-1. The boring was installed to a depth of 12 feet below ground surface and samples were collected at 5-foot intervals for headspace screening in order to aid in selecting samples for laboratory analyses. The 0-2 foot depth and the 10-12 foot depth samples were submitted for EPH with target PAHs analysis. The 0-2 foot sample was also submitted for PCB/pesticide and total lead analyses. In addition, 8 test pits were placed throughout the subject Property to provide adequate aerial coverage and analytical data for shallow soils located throughout the subject Site and neighboring lots. Samples were collected from the top 3 feet of each



See Figure 8
(for reference only)

test pit location and laboratory analyzed for lead.

The following table provides a condensed summary of data generated for the subject Property during this assessment phase. The table only contains contaminants and sample locations extracted from Table 1 of this report that exceed current MCP reportable concentrations (April 2008). Associated laboratory reports were not available.

Analytical Summary Table
(all results reported in ppm (mg/kg))

SAMPLE IDENTIFICATION SAMPLE DEPTH (FT) COLLECTION DATE	CSS-2 0-3 3/6/00	CSS-500* 0-3 3/6/00	CSS-3 0-3 3/6/00	CSS-4 0-3 3/6/00	CSS-5 0-3 3/6/00	CSS-2 3-6 3/6/00	CSS-500* 3-6 3/6/00	CGW1/S-3 0-2 3/7/00	TP-6 0-3 5/9/00	MCP Reportable Concentrations RCS-1	 RSC-2
PAHs											
2-MethylInaphthalene	**5**	ND				**0.86**	ND	ND		0.7	80
Acenaphthene	ND	0.9				**2**	0.85	**2.1**		2	3000
Phenanthrene	5.4	7.9				**36**	**27**	**23**		10	1000
Benz[a]Anthracene	3.5	4.5				**17**	**16**	**9.8**		7	40
Benzo[b]Fluoranthene	3.9	5.1				**18**	**14**	**9.7**		7	40
Benzo[a]Pyrene	**3.2**	**4.1**				**13**	**11**	**8.4**		2	4
Indeno[1,2,3-c,d]Pyrene	2.6	4				**10**	**9.2**	6.5		7	40
Dibenzo[a,h]Anthracene	**2.6**	**4**				**10**	**9.2**	**6.5**		0.7	4
Lead	**400**	**620**	**2500**	**530**	**310**	210	160	**490**	**930**	300	300

Notes: (1) **Bold** = exceeds RCS-1 Criteria
(2) **Bold** = exceeds RCS-2 Criteria

General trends identified in the soil sampling results are as follows: EPH concentrations were detected at one to two orders of magnitude below RCs in the southwest portion of the subject Property. Concentrations of several individual PAHs were detected above RCs (chrysene, benzo(a)Pyrene and dibenzo(a,h)anthracene) in southwest area of property. The highest concentrations of the above noted PAHs were detected in soils collected at 3-6 feet bgs at CSS-2.

Property surface soil (i.e., 0'-3') typically contained 100-500 mg/kg of lead, with an occasional anomalously high level of 2,500 mg/kg (CSS-3) to 3,640 mg/kg (M&E sample SS-04). Three out of the 15 surface soil samples (i.e., 0-3 foot depth) exceeded the then applicable RCS-2 lead concentration of 600 mg/kg. Underlying shallow subsurface soil (i.e., 3'-6' depth) contained approximately 100-200 mg/kg of lead.

On March 7, 2000, Cygnus oversaw advancement of one soil boring designated as CGW-1 in the southwest corner of the subject Property. The boring was completed as a 2-inch groundwater monitoring well and sampled for EPH with target PAHs, PCBs, and pesticides. The groundwater sampling results indicated no EPH, PAHs, PCBs or pesticides above the laboratory method detection limits. No lead analysis was performed on the collected groundwater sample.

3.1.3 Common Sense Environmental, Inc.

In May 2006, Common Sense completed a Phase I Completion Statement/Tier II Classification for RTN 4-15490 and submitted to DEP on behalf of the Commonwealth of Massachusetts

Department of Fish and Game. The response actions completed at the subject Property consisted primarily of review of historical soil and groundwater sampling data. The purpose of the report was to evaluate the nature and extent of previously identified lead, PAH, and PCB contamination on the Property, and to use available data to complete a Numerical Ranking Scoresheet (NRS) in support of the Tier Classification of the release Site and in the development of a Conceptual Phase II Scope of Work. Based on the findings of the Phase I report, Common Sense outlined future assessment only work which would either support the ultimate closure of the Property or provide the necessary information to satisfy the requirements of a Phase II Comprehensive Site Assessment.

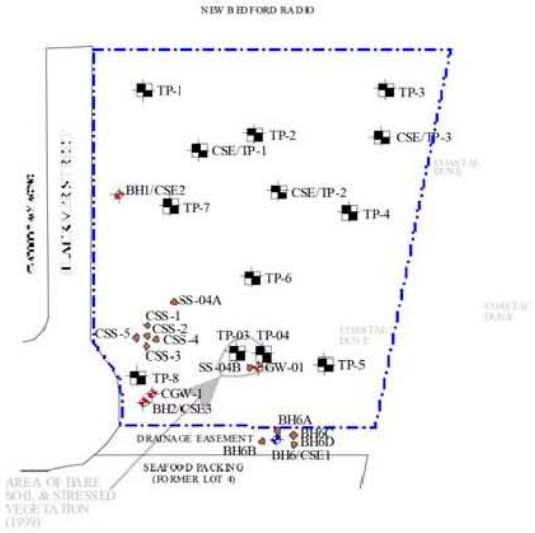
3.2 Phase II Assessment

On May 25, 2006, Common Sense supervised an assessment on the subject Site to verify and ascertain the extent of historically detected contaminants. The assessment included the installation of three boreholes (BH-1, BH-2 and BH-6), which were converted to groundwater monitoring wells (CSE-1, CSE-2 and CSE-3) and the advancement of 6 test pits (CSE TP-1, CSE TP-2, CSE TP-3, BH-6A, BH-6B, BH-6C and BH-6D) in targeted areas of the subject Property. Select soil samples were laboratory analyzed for total lead, EPH/PAHs, asbestos containing material (ACM), PCBs and for the presence of coal ash. Further, collected groundwater samples were laboratory analyzed for dissolved lead, EPH/PAHs and PCBs. All associated logs are presented as Appendix B of this report.

Soil Assessment

Soil samples were collected at 2.5-foot intervals in the boreholes (BH1, BH-2 and BH-6) and at 0-3 foot and 3-6 foot intervals in the test pits (CSE TP-1 through CSE TP-3). Collected soil samples were field screened for total volatile compounds using a Thermo 580B organic vapor meter (OVM) and calibrated to a benzene standard in accordance with the DEP jar headspace protocol.

The 2006 soil sampling plan is summarized in the following table:



See Figure 8
(for reference only)

Sample Identification Number	Sample Depth (ft)	Total Lead mg/kg	EPH mg/kg	Coal Ash mg/kg	Asbestos mg/kg	PCBs mg/kg
BH1	0-2.5	X	X			X
BH1	2.5-5	X	X			X
Duplicate 1 (BH1 2.5-5)	2.5-5	X				
BH1	5-7.5	X				
BH2	0-2.5	X				
BH2	2.5-4	X	X		X	X
Duplicate 2 (BH2 2.5-4)	2.5-5	X				
BH2	4-6.5	X	X	X		
BH6	0-2.5	X	X		X	
BH6	2.5-5	X	X	X		X
BH6	5-7.5	X				
CSE/TP-1	0-3	X	X	X	X	X
CSE/TP-1	3-6	X	X			
CSE/TP-2	0-3	X	X			
CSE/TP-2	3-6	X	X		X	X
CSE/TP-3	0-3	X	X		X	X
CSE/TP-3	3-6	X	X			
BH-6A	2.5-6	X				X
BH-6B	2.5-6	X				
BH-6C	2.5-6	X				
BH-6D	2.5-6	X				

Copies of the boring logs for the CSE assessment are presented in Appendix B. The following table provides a condensed summary of data generated for the subject Property during the Phase II assessment. The table only contains contaminants and sample locations extracted from Table 1 of this report that exceed current MCP reportable concentrations (April 2008). Associated laboratory reports are provided in Appendix C of this report.

Analytical Summary Table
(all results reported in ppm (mg/kg))

SAMPLE IDENTIFICATION SAMPLE DEPTH (FT) COLLECTION DATE	BH1 0-2.5 5/25/06	BH2 2.5-4 5/25/06	BH2 4-6.5 5/25/06	BH6 0-2.5 5/25/06	BH6 2.5-5 5/25/06	BH6 5-7.5 5/25/06	CSE TP-2 0-3 5/25/06	CSE TP-3 0-3 5/25/06	BH6A 2.5-6 06/12/06	BH6C 2.5-6 06/12/06	BH6D 2.5-6 06/12/06	MCP Reportable Concentrations RCS-1	 RSC-2
PAHs													
Acenaphthene	0.602	0.405	0.689	**2.11**	0.222		<0.152	0.301				2	3000
Phenanthrene	**25.8**	5.77	8.26	**38.3**	**14**		**36.4**	9.35				10	1000
Acenaphthylene	**1.26**	0.213	0.276	**1.43**	0.538		**1.39**	0.619				1	10
Benz[a]Anthracene	**12.1**	3.47	4.38	**18.2**	6.05		**29.4**	**9.85**				7	40
Dibenzo[a,h]Anthracene	<0.115	<0.132	<0.118	**<1.14**	<0.123		<0.152	<0.120				0.7	4
COAL ASH			pos		neg							ns	ns
Lead	111	**339**	**5780**	**1870**	**106000**	**8970**	77.9	256	**550**	**1380**	**611**	300	300

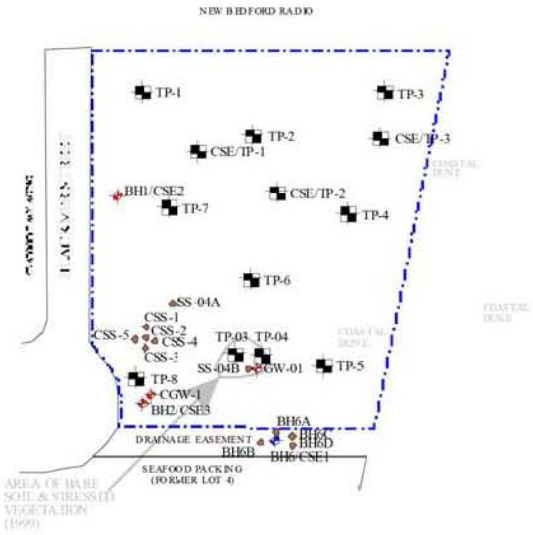
Notes: (1) **Bold** = exceeds RCS-1 Criteria
(2) **Bold** = exceeds RCS-2 Criteria

Groundwater Assessment

On May 25, 2006, Common Sense installed three (3) groundwater monitoring wells identified as CSE-1, CSE-2 and CSE-3 at the Property. The corresponding well borings (BH1, BH2 and BH6) were advanced to depths of 9 and 10 feet below ground surface using hollow stem auger techniques and completed as 10 foot deep groundwater monitoring wells. The wells were subsequently developed by removing approximately 5 times the well bore volume, and allowed

to equilibrate for three days prior to sampling for laboratory analysis. Historic wells GW-1 and CGW-1 had been destroyed and could not be located.

On May 30, 2006 the wells were purged and sampled for EPH with target PAHs, PCBs, and dissolved lead using "Low Flow" procedures. All groundwater samples were submitted to GeoLabs Analytical Laboratory for EPH, PAH, PCB and Lead analysis via applicable DEP protocols. No measurable thickness of LNAPL was encountered at the disposal Site during this study.



See Figure 8
(for reference only)

Water table elevation data collected during the sampling of all the wells confirmed that groundwater occurs at depths between approximately 4.84 to 7.18 feet below grade and flows in a southeasterly direction across the disposal Site. Dissolved oxygen levels were measured in the field at concentrations between 1.02 milligrams per liter (mg/L) and 1.87 mg/L. The Site Plan depicts groundwater elevation contours based upon the May 30, 2006 monitoring and elevation surveying event. Groundwater elevation data collected during this monitoring period are presented in Appendix D of this report.

Laboratory analysis of collected groundwater samples summarized in Table 2 of this report indicate non-reportable levels of every analyzed contaminant with the exception of PCB's. Due to this PCB detection the CSE-2 groundwater sample, the well was re-sampled on July 27, 2006 to assess for potential interference caused by suspended particulates suspected to be present in the original sample. Two samples were extracted from the well for reanalysis of dissolved PCB's. One of the two samples was decanted to allow for settlement of suspended solids and the second was laboratory filtered. Results of the re-analysis summarized in Table 2 of this report measured non-detectable levels of PCBs in both analyzed groundwater samples. Laboratory reports for groundwater analyses are provided as Appendix E.

3.3 Partial Response Action Outcome

As indicated above, a Phase II Assessment consisting of the review of historical soil and groundwater sampling data and the completion of a supplemental subsurface investigation to ascertain the limits and extent of the identified contaminants was completed for the subject release. Subsequent evaluations of the combined data base revealed that the northern portion of

the release site (totaling approximately 2.41 acres) exhibited comparatively lower contaminant concentrations with respect to the southern portion. Due to the fact that the current Property owner purchased the Property to construct a paved parking lot and enclose the Property with fencing as part of immediate redevelopment activities, it was concluded that the northern portion of the release Site was eligible for a "partial" RAO to expedite the process. Measured concentrations in soils located on the northern portion of the release site found that only the PAH Chrysene exceeded applicable RCS-2 standards (at the time of closure). Low level petroleum and lead impact was realized in several sampling locations, albeit below applicable reportable concentrations. A Method 2 Risk Assessment completed for the northern portion of the release site subject to the partial RAO demonstrated compliance with applicable standards and supported the finding of "no significant risk" for the foreseeable future. A subsequent DEP Audit of the filed report concluded that although some technical deficiencies associated with plan and figure inaccuracies were identified and addressed, no further response actions were deemed necessary. All plans and figures provided in this report were re-drawn as a result of the audit and are deemed to be the most current and accurate with respect to the entire site assessment history. Accordingly, the attached plans supersede any and all previously submitted versions.

3.4 Release Abatement Measure Plan

A Release Abatement Measure (RAM) Plan was prepared to facilitate the immediate construction of the paved lot over the southern area of the subject Property as a response action. The placement of an asphalt lot was recommended as a response action to facilitate the implementation of an Activity & Use Limitation (AUL) and ultimate Site closure via a Class A-3 Response Action Outcome (RAO).

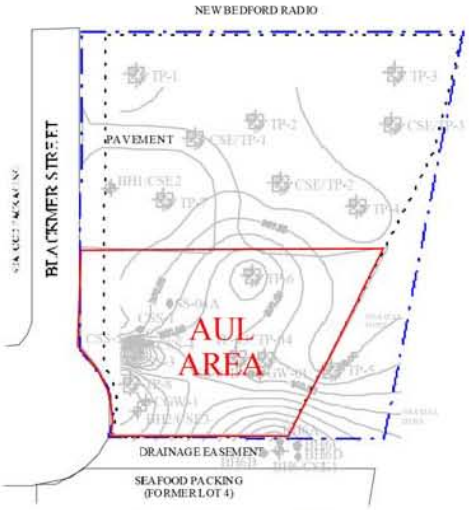
In order to satisfy the requirements of current standards of practice relative to construction within the limits of a release site, the PRP (under the direction of CSE) employed a qualified risk assessor, O'Reilly, Talbot & Okun Associates, Inc., (OTO) to complete a Method 3 Risk Assessment for the southern portion of the subject Property. Proposed development plans including the placement of an asphalt parking lot and construction of a commercial structure were communicated to OTO and a draft Method 3 Risk Characterization report (August 2006) was completed considering both current and the proposed future use exposure scenarios.

In brief, the Method 3 Risk Characterization concluded that a Condition of No Significant Risk exists for current Site uses and potential exposures to soils to construction and utility workers. However, a Condition of No Significant Risk does not exist for future unrestricted use by residents and other uses where a child's presence is likely. In consideration of both proposed and potential future use scenarios, the Method 3 concluded that the AUL should specify the placement and maintenance of pavement in the AUL area (southern 1.4 acres of Lot 49), and restrict the removal or relocation of the impacted soil without a Soil Management Plan, Health and Safety Plan, and LSP opinion.

3.4.1 RAM Completion Statement

The objective of the subsequently prepared and implemented RAM plan was to eliminate future exposure pathways to impacted urban fill materials situated on the southern limits of the subject Property. The RAM Plan specifically addressed construction methods and site preparation requirements associated with the placement of a paved parking lot on the subject Property. Technical Specifications for Site work, design plans, Soil Management Plan and the Health and Safety Plan were provided to site contractors prior to implementation were attached to the submitted RAM plan. The documents disclosed that the subject Site is a Tier II release site and mandates the implementation of specific methods and procedures to minimize relocation of impacted fill to areas outside the designated AUL area. The Health & Safety plan reflected the findings of the Method 3 Risk Assessment which demonstrated a condition of No Significant Risk to construction workers coming into contact with Site soils and fill material.

The designated AUL area was demarked by the placement of concrete barriers prior to construction. The entire area was grubbed and graded prior to the placement of subsurface structures and paved surfaces. All soils excavated or encountered during grubbing within this area during the placement of subsurface utilities and structures was placed within the finished excavation or otherwise distributed within the designated AUL area. No soils from the southern designated AUL area were relocated to the northern closed portion of the subject Property (the subject of the July 2006 partial RAO). Once all underground structures were emplaced, the coarse grade binder layer of the pavement was then installed in accordance with the Standard Specification for Highways and Bridges of the Department of Public Works Massachusetts (1995). The entire designated AUL area was covered by paved surfaces as a result of RAM activities completed in the fall of 2008. The AUL survey plan was completed after completion of the asphalt lot and as such is deemed to be representative of 'as-built' conditions. No landscaped areas, gardens, or plantings are proposed for presently paved AUL area. No remediation waste was generated as a result of this RAM activity.



See Figure 10
(for reference only)

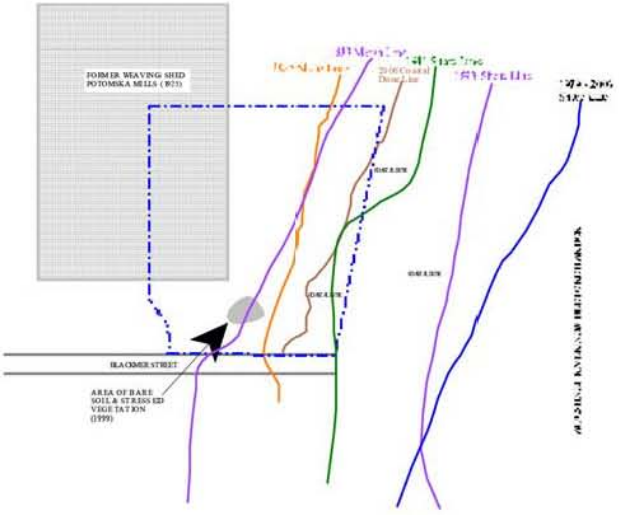
4.0 GEOLOGIC CHARACTERISTICS

Area geology was created by the repeated advances of thick glacial ice sheets that covered this section of New England between 14,000 and 50,000 years ago. During this time, glacial deposition, deformation and erosion during both glacial and interglacial stages formed the topography of the area. As the glacial ice retreated, area valleys were filled with a veneer of glacial till and outwash deposits of varying thickness.

Geology

The subject Property consists of "made land" as low lands bordering the New Bedford Harbor were apparently filled as indicated by a comparison of current shorelines to those depicted in an 1893 USGS Topographic Map. Based on the time and location of filling within this highly urbanized area, the type of fill material typically contains debris and particles commonly associated with DEP defined urban fill. Topographically, the parcel has generally remained level with a slight southeasterly down gradient trend towards the New Bedford Harbor/New Bedford Harbor.

Figure 7 of this report provides an approximation of fill areas of the subject property as derived from available historic USGS Maps. Site boundaries and relative location were traced onto current aerial photographs with respect to Cove and County Streets which were landmarks that existed throughout the chronological history of available historic maps. Using Cove and County Streets as reference points, the site boundaries were superimposed on the historic maps and relative shorelines were traced with respect to current Property boundaries (Figures 4 – 6). As shown on the resulting shoreline map, the entire eastern half of the Property appears to have been either tidal wetlands or part of the New Bedford Harbor prior to historic filling activities. Based on these maps it can be surmised that the thickness of the fill material is deepest along its eastern limits and was most likely subject to full dump loads; whereas the remainder of the property was most likely brought up to grade with gradable soil and gravelly materials (asphalt, cinders & ash). In addition, it is noted that the eastern abutting dune area (not owned by the PRP) presently situated between the subject Property and the current shoreline is largely made up of beach sand. The sand may have been deposited as a result of the effect of the New Bedford Harbor hurricane wall on local tidally influenced water and may or may not contain significant amounts of "man-made" fill. Although the soils in these sand dunes appear more pristine than the fill materials noted in the subject property, it is reminded that these sands/sediments likely came from the bottom of New Bedford Harbor, a listed NPL site for PCB impact.



See Figure 7
(for reference only)

The *Soil Survey of Bristol County* accordingly identifies Property area soil as "Urban Land" where urban works and structures prevent classification and requires on-site investigation.

According to the M&E BTSA Draft Report, the soil sequence across much of the Standard Times Field Site varies. Some tests pit logs suggest a fill unit 2-8 feet deep in some locations, containing sand and gravel with brick and shingle fragments, cinders, asphalt and concrete rubble. These fill materials may primarily have sourced from various buildings which were demolished during the 1930's. The fill is typically underlain by a peat unit 1 to 2 feet thick, which in turn was underlain by natural deposits of sand and gravel and/or bedrock. Depths to bedrock ranged from approximately 6 to 12 feet across the Property area. It is noted that the above described Lot 4 located to the south of the southern abutting drainage easement was reported to consist of fill material containing coal ash (Appendix A).

Boring logs generated by CSE in 2006 also indicate varying soil sequences. Fill containing sand, rounded cobbles, black coal ash, cinders, porcelain and brick fragments was consistently observed varying from 0 to 9 feet bgs at BH2, BH6 and all three CSE test pits. Refusal was encountered at 6 feet bgs at CSE TP-2. Bedrock was not encountered at any other CSE borings or test pits. Soils observed at BH1 consisted of sandy brown soil and cobbles (Appendix B).

According to Zen (1983), bedrock at the Property is a Precambrian biotite gneiss of the Blackstone Group.

Hydrogeology

The nearest surface water body is the abutting New Bedford Harbor, which flows south to the New Bedford Inner Harbor. The New Bedford Inner Harbor is a designated Class SB surface water body with restricted shell fishing and is impacted by Combined Sewer Overflows according to the Massachusetts Surface Water Quality Standards. A Class SB surface water body is suitable as a habitat for fish and other aquatic life, and for primary and secondary contact recreation such as swimming and boating.

Cygnus Group surveyed wells CGW-1 through CGW-4 in 2000 and tied the data into an arbitrary datum plane. The depth to groundwater ranged from 2.27 feet below ground surface (BGS) at CGW-3 to 5.1 feet bgs at CGW-1 (on Property well). Based on this data, the overall direction of the groundwater flow across the Property was inferred to be southeasterly. Water table elevation data collected by Common Sense in 2006 at CSE-1, CSE-2 and CSE-3 confirmed that groundwater is located at depths between approximately 4.84 to 7.18 feet below grade and flows in a southeasterly direction across the disposal Site. Groundwater levels and flow directions may be influenced by tidal fluctuations. The groundwater elevation survey data and flow directions are summarized in the Phase I report and depicted in Figure 9 of this report.

5.0 CONCEPTUAL SITE MODEL

In consideration of all field observations and screening data generated to date and disseminated above, a preliminary Conceptual Site Model (CSM) for the release can be formed. The development of a CSM is particularly useful in the understanding of release site mechanisms and the development of future response actions when deemed necessary. The primary function of the following CSM is to provide an understandable interpretation of the collected data with respect to the full nature and extent of contamination, migration pathways and exposure potential. The CSM considers all conceptually possible exposure scenarios and supports the rationale for all sampling, assessments and response actions completed for the release site.

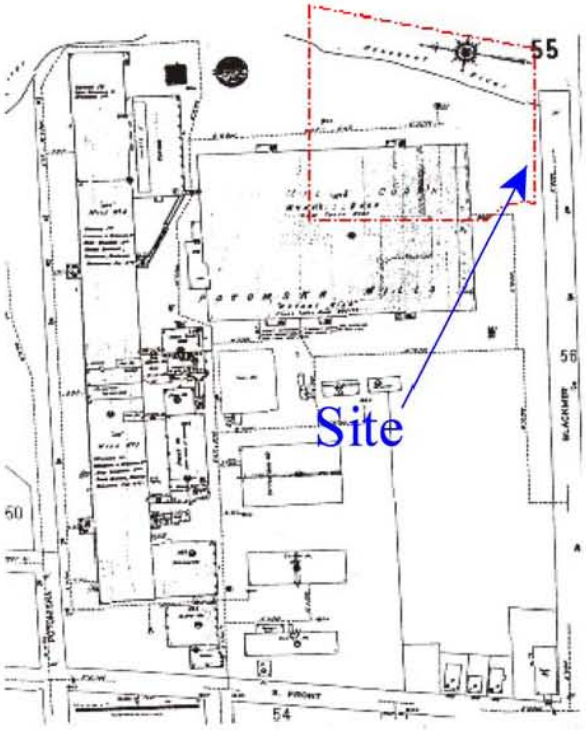
5.1 Nature & Extent

Based on the results of recent and historic use research and sampling and analysis of soil and groundwater samples collected from the Property, the primary site contaminants and reason for DEP notification are Lead and PAHs detected in Site soils. No point source for any of the reported contaminants has been identified and it has been concluded that their presence is directly attributable to the presence of historic urban fill located throughout the subject area. The fill horizon consists of soil matrices containing brick, wood, bits of coal, cinders and coal ash as confirmed by both field observations and laboratory analysis. As urban fill containing coal ash is conditionally exempt from reporting and management under the MCP, the focus of this report and Conceptual Site Model is the presence of a potential lead hotspot within the fill regime on the southwest corner of the subject Property. The following provides a brief discussion of this Site is it is presently understood.

5.1.1 Release Source & Transport Mechanisms

Based on the results of historic and recent assessment activities and historical Property use, the identified COPC's are lead and members of a group of organic coal ash related compounds known as polynuclear aromatic hydrocarbons (PAHs). The general location of the elevated lead contamination appears to coincide with a former roadway and current drainage easement extending easterly from the current Blackmer Street eastern terminus parallel to the southern Property line. Although the entire eastern half of the subject Property has been the subject of filling during the last 150 years, it is suspected that this former roadway (which extended through to the waters edge on historic maps, may have been paved or surfaced with cinder/ash or was potentially subject to occasional oil spraying during its use throughout the early 1900's. Historic maps on record with the City of New Bedford indicate that a 24-inch storm drain and 12-inch abandoned sewer line are located within Blackmer Street and the southern abutting City owned drainage easement. The storm drain currently extends and discharges to the New Bedford Harbor/New Bedford Harbor. The abandoned sewer line currently terminates approximately 40 feet from the waters edge. No indication of a pump chamber or station was revealed in the reviewed plans, implying that the sewer likely historically discharged to the abutting water body.

The former roadway has also been the location of historic fishing (lead sinkers) and roadside dumping activities throughout its long history.



See Figure 5
(for reference only)

Typically lead and PAHs, when mobilized become tightly bound to soil particles and do not tend to migrate to deeper soil horizons (ie they are typically found in shallow soil horizons) and are not very soluble thus posing a minimal threat to groundwater. In general, lead and the detected PAHs are elements that do not break down naturally and therefore will persist in the environment indefinitely. Accordingly, these contaminants are ubiquitous in the environment (commonly as a constituent of coal ash) and especially in historically industrialized areas. Once released into the environment, some changes in the composition may occur as a result of weathering. The relative importance and rate of weathering varies from situation to situation, however, the processes of volatilization, dissolution and degradation effect the concentrations upon release into the environment.

Once lead falls onto soil, it sticks strongly to soil particles and remains in the upper layer of soil. That is why past uses of lead such as lead in gasoline, house paint, and pesticides are so important in the amount of lead found in soil. Small amounts of lead may enter rivers, lakes, and streams when soil particles are moved by rainwater. Small amounts of lead from lead pipe or solder may be released into water when the water is acidic or "soft". Lead may remain stuck to soil particles or sediment in water for many years. Movement of lead from soil particles into groundwater is unlikely unless the rain falling on the soil is acidic or "soft". Movement of lead from soil will also depend on the type of lead compound and on the physical and chemical characteristics of the soil. Sources of lead in surface water or sediment include deposits of lead-containing dust from the atmosphere, waste water from industries that handle lead (primarily iron and steel industries and lead producers), urban runoff, and mining piles. Some lead compounds are changed into other forms of lead by sunlight, air, and water. However, elemental lead cannot be broken down.

The movement of PAHs in the environment depends on properties such as how easily they dissolve in water, and how easily they evaporate into the air. PAHs in general do not easily dissolve in water. They are present in air as vapors or stuck to the surfaces of small solid

particles. They can travel long distances before they return to earth in rainfall or particle settling. Some PAHs evaporate into the atmosphere from surface waters, but most stick to solid particles and settle to the bottoms of rivers or lakes. In soils, PAHs are most likely to stick tightly to particles. Some PAHs evaporate from surface soils to air. Certain PAHs in soils also contaminate underground water. The PAH content of plants and animals living on the land or in water can be many times higher than the content of PAHs in soil or water. PAHs can break down to longer-lasting products by reacting with sunlight and other chemicals in the air, generally over a period of days to weeks. Breakdown in soil and water generally takes weeks to months and is caused primarily by the actions of microorganisms.

With specific reference to the subject Site, the location of elevated lead in soil is currently covered by paved surfaces which restricts rainwater infiltration and the resulting downward migration from impacted upper soils. Further, migration of suspended particulates via wind mixing or overland storm water transport is also limited by the presence of paved surfaces and buildings. As a result, migration of Site contaminants would feasibly be limited to groundwater leaching and transport mechanisms, typically in suspended form as solubility's are low. Based on historic analysis completed for dissolved concentrations in site groundwater, it does not appear that leaching to the groundwater table from surrounding fill materials is occurring at this time. Based on the age and persistence of the release Site, contaminant concentrations will likely not increase or decrease with time. Current concentrations will accordingly remain stable and persistent through the future. The identified COPCs are not volatile in nature and will not migrate into the indoor air of overlying structures.

5.1.2 Contaminant Concerns

According to the available guidance and industry standards, the chemical contaminants most commonly associated with historic urban fill include: EPH, VPH, VOC, Metals, PCBs, PAHs, Pesticide, asbestos, cyanide and coal/wood ash. Various specific parameters can be eliminated from consideration based on the results of field screening, previous results and or the environmental sensitivity of the release site area. In addition, some target analytes are quantified via different methodologies allowing some flexibility with respect to requested analysis services. The following table provides a summary of analytical services requested for soil and groundwater samples with respect to the above listed common contaminants and the specifically identified confirmed Contaminants of Concern (RC exceedances).

Sample Locus	Media	Field Data	VPH	EPH	VOC	Metals	Lead	PCB	PAH	Pesticide	Asbestos	Cyanide	Coal Ash	confirmed Contaminants of Concern
SS-04A/GW-01	Soil	x	x	x	x	x	x	x	x			x		Lead, DiBenzo(a,h)anthracene, Benzo(a)pyrene
	Water		x	x		x	x	x	x	x		x		
SS-04B	Soil	x	x	x	x	x	x	x	x	x	x	x		Lead, Benzo(a)pyrene
CSS-1	Soil	x					x							Lead
CSS-2	Soil	x		x			x		x					Lead, Benzo(a)pyrene
CSS-3	Soil	x					x							Lead
CSS-4	Soil	x					x							Lead
CSS-5	Soil	x					x							Lead
CGW-1	Soil	x		x			x	x	x	x				Lead, DiBenzo(a,h)anthracene, Benzo(a)pyrene
	Water			x				x	x					
TP-1	Soil	x					x							

Sample Locus	Media	Field Data	VPH	EPH	VOC	Metals	Lead	PCB	PAH	Pesticide	Asbestos	Cyanide	Coal Ash	confirmed Contaminants of Concern
TP-2	Soil	x					x							
TP-3	Soil	x					x							
TP-4	Soil	x					x							
TP-5	Soil	x					x							
TP-6	Soil	x					x							Lead
TP-7	Soil	x					x							
TP-8	Soil	x					x							
BH1/CSE2	Soil	x		x			x	x	x					
	Water	x		x			x	x	x					
BH2/CSE3	Soil	x		x			x	x	x		x		x	Lead, Coal Ash
	Water	x		x			x	x	x					
BH6/CSE1	Soil	x		x			x	x	x		x		x	Lead
	Water	x		x			x	x	x					
BH6A	Soil	x		x		x	x	x				x		Lead
BH6B	Soil	x					x							Lead
BH6C	Soil	x					x							
BH6D	Soil	x					x							
CSE TP-1	Soil	x		x			x	x	x		x		x	Coal Ash
CSE TP-2	Soil	x		x			x	x	x		x			
CSE TP-3	Soil	x		x			x	x	x		x			

Notes:
X = analysis completed, results below RC standards
X = analysis completed, results exceed RC standards
Blank = analysis not completed

Review of the data tabulated above confirms that all of the most commonly associated contaminants of potential concern (listed above) have been analyzed for during historic assessment activities. The table is chronologically organized from top to bottom and depicts where previously undetected analytes were omitted from later sampling events (ie. VOC and VPH). The table confirms that the site has primarily been impacted by lead, PAH's and Coal Ash. The contaminants of concern identified during the spectrum of analytical testing can be best and most effectively quantified via lead and PAH analysis. Analytical work completed for other historic fill related contaminants of concern did not reveal the presence of any laboratory quantified Reportable Conditions.

Lead occurs naturally in the environment. However, most of the high levels found throughout the environment come from human activities. Environmental levels of lead have increased more than 1,000-fold over the past three centuries as a result of human activity. The greatest increase occurred between the years 1950 and 2000, and reflected increasing worldwide use of leaded gasoline. Lead can enter the environment through releases from mining lead and other metals, and from factories that make or use lead, lead alloys, or lead compounds. Lead is released into the air during burning coal, oil, or waste. Before the use of leaded gasoline was banned, most of the lead released into the U.S. environment came from vehicle exhaust. In 1979, cars released 94.6 million kilograms (208.1 million pounds) of lead into the air in the United States. In 1989, when the use of lead was limited but not banned, cars released only 2.2 million kg (4.8 million pounds) to the air. Since EPA banned the use of leaded gasoline for highway transportation in 1996, the amount of lead released into the air has decreased further. Before the 1950s, lead was used in pesticides applied to fruit orchards. Once lead gets into the atmosphere, it may travel long distances if the lead particles are very small. Lead is removed from the air by rain and by particles falling to land or into surface water.

Sources of lead in dust and soil include lead that falls to the ground from the air, and weathering and chipping of lead-based paint from buildings, bridges, and other structures. Landfills may contain waste from lead ore mining, ammunition manufacturing, or other industrial activities such as battery production. Disposal of lead-containing products contribute to lead in municipal landfills. Past uses of lead such as its use in gasoline are a major contributor to lead in soil, and higher levels of lead in soil are found near roadways. Most of the lead in inner city soils comes from old houses with paint containing lead and previous automotive exhaust emitted when gasoline contained lead.

The levels of lead may build up in plants and animals from areas where air, water, or soil are contaminated with lead. If animals eat contaminated plants or animals, most of the lead that they eat will pass through their bodies.

PAHs are a group of chemicals that are also formed during the incomplete burning of coal, oil, gas, wood, garbage, or other organic substances, such as tobacco and charbroiled meat. There are more than 100 different PAHs. PAHs generally occur as complex mixtures (for example, as part of combustion products such as soot), not as single compounds. PAHs usually occur naturally, but they can be manufactured as individual compounds for research purposes; however, not as the mixtures found in combustion products. As pure chemicals, PAHs generally exist as colorless, white, or pale yellow-green solids. They can have a faint, pleasant odor. A few PAHs are used in medicines and to make dyes, plastics, and pesticides. Others are contained in asphalt used in road construction. They can also be found in substances such as crude oil, coal, coal tar pitch, creosote, and roofing tar. They are found throughout the environment in the air, water, and soil. They can occur in the air, either attached to dust particles or as solids in soil or sediment.

PAHs enter the environment mostly as releases to air from volcanoes, forest fires, residential wood burning, and exhaust from automobiles and trucks. They can also enter surface water through discharges from industrial plants and waste water treatment plants, and they can be released to soils at hazardous waste sites if they escape from storage containers.

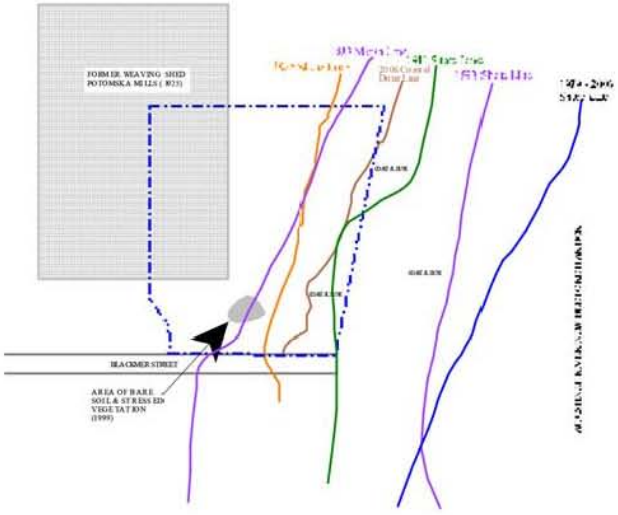
Groundwater impact does not exist at the subject Property and off-site migration of detected contaminants in soil is therefore not expected to occur. Although it has been demonstrated that the fill materials present on the subject Property extend beyond the Property boundaries and potentially into the nearby New Bedford Harbor, it is concluded that the level of assessment completed for the subject Property by the PRP is complete with respect to assessing and managing on site risks. Regional assessments completed by others were relied upon to determine the full extent and limits of urban fill related contamination.

5.1.3 Site Delineation

As indicated throughout this report, no distinct point source for the primary contaminants of concern was identified on the subject Property. Furthermore, it is noted that all detected

contaminants are a by-product of coal burning activities or coal ash in the environment. As such, it is concluded that the source of the detected contamination is historic urban fill material containing coal ash which was observed during boring advancement throughout the subject Property. Although it is evident based on field logs and observations that ash exists throughout the Property, laboratory analysis of the sampled fill material was generally inconsistent and non-heterogeneous within the fill horizon. This is deemed to be consistent with the inherent variable nature, origin and deposition of historic urban fill and the expected random distribution of identified contaminants. As a result, the extent and limits of the Site include all areas were urban fill was visually identified and confirmed with the use of historic maps and documents. It is suspected that based on the nature of waterfront properties in industrialized areas in the northeast, this fill material likely extends beyond the Property boundaries to the north and south along the eastern shore of New Bedford Harbor. This statement is generally confirmed through the area wide assessments completed for the former all encompassing Standard Times Site (Appendix A). As indicated above, this discussion also considers the presence of an apparent hot spot within the urban fill horizon which contains contaminant concentrations in excess of published background conditions within the southwestern portion of the subject Property.

As areas of historic urban fill are common in the northeast region, it is understood based on conversations with state regulators that such areas should be the responsibility of each individual land owner and not one single entity, unless that entity was the sole source and generator of said fill materials. Due to the fact that the current Property owner just recently took ownership of the property and had no connection to the generators of the urban fill, the data evaluated in the risk characterization was limited to that which was collected from within the legal boundaries of the subject Property.

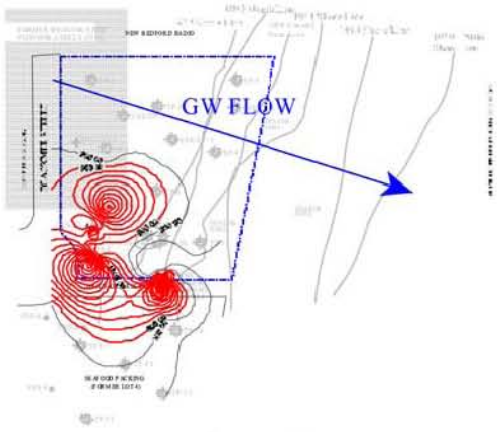


See Figure 7
(for reference only)

Based upon field observations and generated soil analytical data, the extent of historic fill is confirmed on the eastern half of the subject Property. In an attempt to provide a defensible definition of the extent and limits of fill, available historic USGS Map overlays were utilized to estimate the portions of the subject Property that have been filled since 1893. The attached Figure 7 composites the overlays of the eastern shoreline as depicted in the three provided USGS Maps and current Aerial Photograph. It is estimated based on this figure that approximately one half of the overall Property can be definitively documented to contain historic fill. Fill material was

confirmed during boring and test pit advancement in this area at depths extending from 0 to 7 feet below grade, thickening toward the eastern boundary. The current strip of land situated between the eastern Property line and New Bedford Harbor consists of a sandy beach dune that may have formed as the result of the construction of the nearby hurricane wall (circa- 1960). Soils in this area appear to consist primarily of well drained sand, but it is unclear if it was emplaced as a part of human construction or through natural deposition.

In addition to utilizing historic maps, recently generated data was compiled with the regional data generated by previous assessments and analyzed for contaminant trends and indicators. In review of the summary tables presented and discussed above, it is evident that the primary and most consistently detected contaminant of concern is lead. The presence of secondary PAH contaminants generally mirrored lead concentrations providing a reasonable coincidence of co-mingling. As such, a conceptual site model was generated by plotting worst case lead concentrations generated throughout the local area as a contour plan and overlaying it onto current lot boundaries. Although lead contamination in urban fill is not generally homogeneous or organized in the environment, this contour map demonstrates some continuity and trending which was useful in ascertaining the potential source and limit of the elevated contaminant area. As described above, Figure 9 of this report presents this CSM which generally isolates the elevated lead area to the former roadway and immediate surroundings, including the drainage easement situated along the southern limit of the subject Property. Elevated concentrations extend to the north and south of the easement onto abutting lots 3 and 4. On-site sample locations containing lead concentrations exceeding background within the 0-3 foot soil regime are all located within the limits of the recently installed paved parking area which is hereby defined as the extent of the release site situated within the Property boundaries identified as the AUL area on Figure 10. Contaminants extending onto the northern limits of Lot 4 have been assessed and closed by another consultant and PRP via a 2001 Class B-1 RAO (discussed above).



See Figure 9
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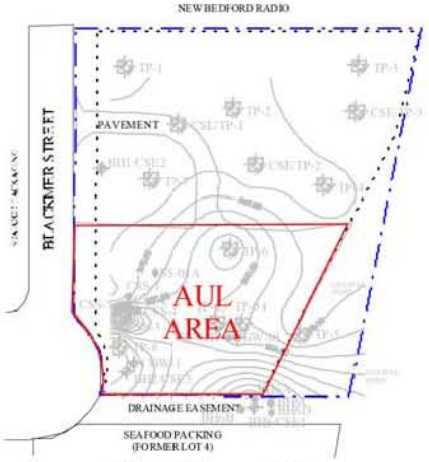


See Figure 10
(for reference only)

Groundwater collected at CGW-01 exhibited 2.6 ppb PCBs although the duplicate sample (GW-101) was non detect for PCBs in 2000. As previously discussed in this document, PCB's are not typically solvent and detections in water samples are most commonly associated with suspended particulates and unfiltered samples were initially analyzed. In further support of this statement, the detected concentrations far exceeded the water solubility value of 0.277 mg/L for PCBs, which clearly indicates that the detection was attributable to particulates present in the sample. In order to technically support this position, well CSE-2 was re-sampled on July 27, 2006 to evaluate for dissolved PCB concentrations. Due to the fact that available guidance does not clearly support filtering of groundwater samples for PCB analysis, two samples were extracted from the well for reanalysis. One of the two samples (CSE-2A) was decanted to allow for settlement of suspended solids and the second (CSE-2B) was laboratory filtered. Both samples were analyzed for PCB's and found to contain non-detectable levels. Accordingly, the concentrations of PCBs detected in groundwater during this sampling event are discounted based on the presence of suspended solids. Furthermore, the subject Site is abutted to the east by the New Bedford Harbor/New Bedford Harbor which is listed as an NPL site due to the presence of PCB impact from upstream sources. Detected concentrations of filtered PCBs in groundwater samples consistently remain well below the Method 1 GW-3 threshold of 0.0005 mg/L.

The collected groundwater data indicates no EPH, PAHs, or lead above the laboratory method detection limits in groundwater. As a result, it is concluded that groundwater is not impacted and groundwater is not a part of the conceptual site model. In addition, the potential for off-site migration to the abutting New Bedford Harbor or the indoor air of potential future buildings constructed over the site area are not likely to occur and is also not included in the CSM.

5.2 Exposure Potential

In accordance with current standards of practice a Conceptual Site Model should contain a discussion relative to migration pathways and exposure potential to nearby receptors. The CSM should describe and evaluate known and potential contaminant migration pathways and exposure points, to the extent that such information is known. These evaluations typically include evidence of and the potential for oil and/or hazardous material migration by air, soil, groundwater (including migration along preferential flow pathways such as subsurface utility lines) and surface water (including sediments). The primary mechanisms for performing this evaluation are via qualitative evaluations of existing or known impacts or the quantitative evidence of measured impact to media in excess of applicable Reportable Concentrations and the corresponding accessibility of the identified contaminated media.

The MCP requires an evaluation of potential exposure pathways for four media types including soil/sediments, groundwater, surface water and indoor air. As indicated above, the criteria for establishing these exposure risks is based on both a qualitative assessment of observed impact or stress and the quantitative evaluation of the Site detected contaminants with respect to their

associated Reportable Concentrations. The following provides a brief discussion of each listed media type.

5.2.1 Soil

The area of highest COC contamination in soil was identified in the southwest portion of the Property. Site soils are currently paved and access to the Property is restricted by a locked chain-link fence. As a result, it is not likely that current or future trespassers or workers would be exposed to contaminated Site soils situated beneath the current paved lot. Since there have been no detection of VOCs and no buildings currently exist on the subject Property, there is no potential for vapors from contaminated soil or groundwater to migrate into the indoor air. Potential future exposures might exists in the event that impacted soils are excavated and/or relocated from beneath the paved lot as part of future construction or re-development activities.

5.2.2 Groundwater

In the assessment of groundwater exposure pathways, the confirmed presence of OHM in groundwater either by qualitative evidence of Non-Aqueous Phase Liquid (NAPL) or the detection of concentrations in excess of applicable RC's in drinking water resource areas or drinking water supply wells are the primary criteria to establishing a potential exposure scenario. Based on the results of the above summarized assessments, no groundwater impact was detected on the Site and therefore there is no foreseen groundwater migration pathway or exposure potential.

5.2.3 Surface Water

In the assessment of surface water exposure pathways, the confirmed presence of OHM in nearby water bodies either by qualitative evidence (sheens, free product) or the detection of contaminants in analyzed surface water samples are the primary criteria to establishing a potential exposure scenario. The sensitivity of the impacted water way, established by the recreational/water supply use or the ecological value, determine the potential for exposure to occur.

No surface water bodies exist on-Site. The possibility of the detected site related COCs to the Harbor/River is unknown and was beyond the scope of this investigation. However, given that no groundwater impact has been documented, the possibility of contaminated groundwater migrating to the New Bedford Harbor are remote. Furthermore, it is surmised that based on the general use of the surrounding area for marine based/commercial industry, combined with the known environmental history of the New Bedford Harbor as a combined sewer outflow receptor and National Priority List site, it is clear that the harbor is subject to exposure via multiple pathways far exceeding the potential overall acute impact from the subject Site. Based on this, it

is concluded that it is unlikely that a potential for significant harm to occur with regard to the abutting habitats and biota exists as a result of the subject Site.

5.2.4 Indoor Air

In the assessment of indoor air exposure pathways, the confirmed presence of OHM in air either by qualitative evidence (odors) or the known potential for the detected contaminants to readily volatize into air are the primary criteria to establishing a potential exposure scenario. The sensitivity of the impacted air is established by its presence with respect to local sensitive receptors (children, elderly) or the actual presence within the indoor air of an occupied structure. In addition, the finding of groundwater contaminant concentrations in excess of RCGW-2 standards may also indicate a risk to buildings located within 30 feet where the depth of water is 15 feet or less.

With respect to the subject release Site, volatile organic compounds were not identified in site soils or groundwater. Further, the primary detected COC (lead) is not volatile in nature. Accordingly, the indoor air of any future structures (none currently exist) is not likely to be impacted as a result of Site specific contaminants.

5.2.5 Exposure Potential Summary

Based on the above, the majority of the contaminated soil identified to date is located in the southwest portion of the Property. In general, given the tendency for metals to bind to soil, exposure to same necessitates the physical disturbance of soil or some potential future removal of the lead from soil via rootlet system uptake in garden vegetation and ingestion of the produce. This latter exposure pathway is self-explanatory. Presently, because no gardens currently exist on the subject Property, potential exposure scenarios would be limited to direct contact by future construction workers excavating soils located in the Site area as currently defined. No other current potential exposure pathways to nearby receptors are known to exist at this time. The following provides a tabulated summary of this discussion.

Release Source	Contaminants	Exposure Medium	Likely Exposure Pathways	Potential Receptors	Current Exposure Potential	Future Exposure Potential
Urban Fill	Heavy Metals PAHs	Soil	Incidental Ingestion Dermal Contact Inhalation Produce Uptake	Resident	N	Y
				Trespasser/Visitor	N	Y
				Commercial Workers	N	Y
				Construction Worker	Y	Y
				Ecological	N	Y
		Groundwater	Incidental Ingestion Dermal Contact Inhalation	Resident	N	N
				Trespasser/Visitor	N	N
				Commercial Workers	N	N
				Construction Worker	N	N
				Ecological	N	N
		Surface Water	Incidental Ingestion Dermal Contact Inhalation	Resident	N	N
				Trespasser/Visitor	N	N
				Commercial Workers	N	N
				Construction Worker	N	N
				Ecological	N	N
		Indoor Air	Inhalation	Resident	N	N
				Trespasser/Visitor	N	N
				Commercial Workers	N	N
				Construction Worker	N	N
				Ecological	N	N

6.0 RISK CHARACTERIZATION

In accordance with the Massachusetts Contingency Plan, 310 CMR 40.0990, a Method 3 Risk Characterization was conducted for the Site to assess whether reported concentrations of OHM represent a Condition of No Significant Risk. As required, the Method 3 Risk Characterization, completed by O'Reilly, Talbot & Okun Associates, Inc., in October 2008, to evaluate:

1. Assessment of risks to human health,
2. Assessment of risks to public welfare,
3. Assessment of environmental risks, and
4. Assessment of risk of harm to safety.

The risk characterization concluded that a Condition of No Significant Risk to public welfare, the environment, and safety exists at the Site based on available Site data and exposures evaluated for current Site activities and uses.

The human health portion of the Method 3 Risk Characterization concludes that a Condition of No Significant Risk exists for current Site uses and potential exposures to soils to construction

workers and trespassers, and future residents in the north portion of the Site. However, a Condition of No Significant Risk does not exist for unrestricted use by residents and other uses where a child's presence is likely at a high frequency and high intensity of use in the southern area of the Site. The study further concludes that the are no complete exposure pathways to groundwater. There are no exceedances of applicable and suitably analogous standards and potentially significant exposures were not found to exist for aquatic and terrestrial ecological receptors.

Because it was concluded that a condition of No Significant Risk does not exist for unrestricted future use(s) of the southern area of the Site, an AUL was deemed to be required to achieve and/or maintain a Condition of No Significant Risk for the foreseeable future. The Risk Characterization recommended that any planned AUL should specifically restrict all activities and/or uses that are likely to involve the use of the Site by children and/or result in the removal and/or disturbance of the impacted soil from beneath the asphalt lot (or protective barrier). Finally, it was concluded that after implementation of the recommended AUL, a Class A-3 RAO was deemed to be appropriate for the Site.

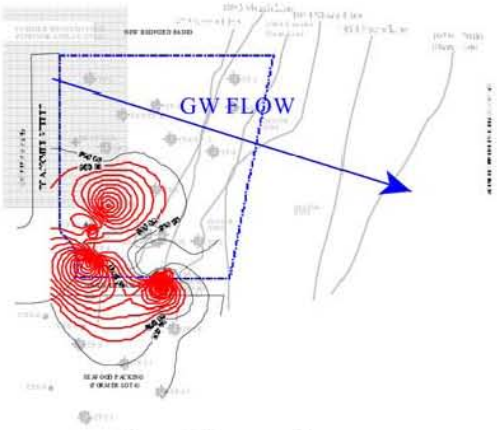
7.0 REPRESENTATIVENESS EVALUATION/DATA USABILITY ASSESSMENT

A Representativeness Evaluation and Data Usability Assessment are presented in this section to document that the data relied upon in this assessment are scientifically valid and defensible and are a sufficient level of precision, accuracy and completeness to support the findings of this report. The following presents a discussion of the site information used to support this RAO as required by 310 CMR 40.1056(2)(k) and incorporating the guidance provided in DEP Policy WSC-07-350. This section essentially provides an evaluation and demonstration of the adequacy of the spatial and temporal data sets used to support this RAO.

Conceptual Site Model

Section 7 of this report presents the Conceptual Site Model generated as a result of site assessment activities. The historical use of the Property as a mill was an obvious basis for environmental assessments and investigations. However, the primary source for contaminants identified on the subject property is concluded to be related to the presence of historic urban fill emplaced along the New Bedford Harbor shoreline during the early 1900's. The industrial nature of the City of New Bedford during this time and predominant use of coal as a fuel source at the Property during its use as a mill and in surrounding industries would indicate that fill materials would be typical to those encountered in most industrial waterfront areas and would contain various amounts of construction debris, ash and rubble sometimes containing hazardous materials or waste. The limits of urban fill extend well beyond Property boundaries as documented in region wide assessments and neighboring Property RAOs. No specific point source or evidence of significant waste disposal was encountered on the subject Property, but elevated fill related contaminant concentrations appear to coincide with a former roadway and current drainage easement located east of the current Blackmer Street eastern terminus and along

the southern Property boundary. Although the entire eastern half of the subject Property has been the subject of filling through history, it is suspected that this former roadway (which extends to the waters edge on historic maps, may have been paved or surfaced with cinder/ash and was potentially subject to occasional oil spraying during its use throughout the early 1900's. In addition to this possible scenario, the dead end waterfront aspect of the roadway may also have been the location of historic fishing and or roadside dumping activities throughout its history. Regardless of its genesis, elevated concentrations of lead, petroleum and PAHs have consistently been encountered in shallow soils situated within the former roadway area and in areas extending to the northern and southern abutting properties. This identified source has been in place for 75-100 years and has not resulted in any currently measurable impact to groundwater or the surrounding environment. No known use or storage of oil or hazardous materials has occurred at the subject property during the last 50 years.

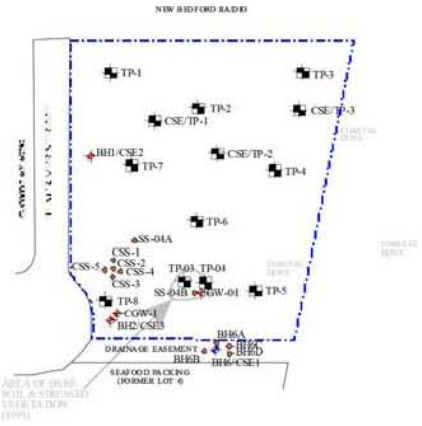


See Figure 9
(for reference only)

Sampling Locations

Full access to the subject Property has been historically hindered by heavy vegetation and irregular surface grades. Although this limited accessibility resulted in a low density of sample locations, overall site coverage was reasonably achieved. The assessment was essentially completed in three phases by three different consultants stemming from a larger regionally encompassing historic mill site assessment. Test pits and boring advanced along the eastern shoreline of the former Standard Times Site identified a potential area of dumping and disposal within what is now the southern limits of the subject Property boundaries (after multiple subdivisions and RAOs on surrounding lots). This subject Property was given specific focus in a subsequent assessment completed by Cygnus to define the limits of these identified filled areas. The Cygnus assessment of Lots 3 & 4 included multiple sample locations, test pits and boring installations which provided a reasonable picture of the limits and extent of the regional historic fill horizon (Appendix A). Although no distinct source was identified during this assessment it was concluded that an apparent hot spot of impacted fill was identified in the southern portion of Lot 3. The third phase of the assessment (completed by CSE) was completed for Lot 3 alone and was designed to supplement the previously generated data and fill any apparent data gaps. Difficult access and the lack of visible property boundary boundaries at the time of investigation resulted in a somewhat compromised sampling plan layout. Primarily, boring BH6 was intended to be located in the proximity of TP-04 and TP-05, but post sampling surveying indicated that it had been placed on the southern abutting drainage easement. Coincidently, this was the area which exhibited the highest lead concentration and was re-sampled in four additional locations to ascertain the extent and reproducibility of this elevated lead hit.

Ultimately, the combined investigation of the eastern shoreline utilized in the development of the CSM consisted of data collected from 37 locations throughout the region. Of this data set, 24 were located within the boundaries of the subject Property. All test pits and borings were advanced to adequate depths to determine the extent of the fill horizon and were well located with respect to the information garnered from historic map review. Collected samples were screened for contaminants most commonly associated with urban fill and other potential sources identified during previous site assessment activities described above. Contaminants typically associated with these sources include: Volatile Organic Compounds (VOCs), Total Petroleum Hydrocarbons (TPH), Polycyclic Aromatic Hydrocarbons (PAHs), PCBs, asbestos, pesticides, herbicides and Heavy Metals.



See Figure 8
(for reference only)

Field Screening

Field notes and observations generated by three separate consultants are documented in tables, test pit and boring logs provided in Appendix x of this report. Soils collected continuously to depths of 15 feet below ground surface from a total of twenty-nine distinct locations were visually assessed for content and evaluated for obvious indications of contamination. Fill material containing ash was predominant throughout the subject Property and surrounding area with depths coinciding with distance from the eastern shoreline. In addition to visual inspection, all samples were screened on-site for VOC impact and four (4) soil samples visually observed to contain ash were submitted for confirmatory laboratory analysis. No indication of VOC impact (as indicated by headspace screening) was noted in soil samples collected from the subject property. Two soil samples (SS-04A and SS-04B) submitted for VOC analyses confirm this conclusion. As such, additional VOC analyses wad deemed unnecessary in later sampling events. Due to the observation of bits of asphalt, coal and ash in fill materials identified throughout the subject Property (see boring logs), chemical analysis for TPH, SVOCs/PAHs and heavy metals were requested. Total PCB concentrations were identified in three groundwater sampling locations. Field observations of silts and fine particulates in the collected samples indicated that analytical results may have been related to the presence of suspended particulates. Due to the inability to extract silt free samples from these wells, both filtered and decanted samples were collected and laboratory analyzed for dissolved PCB impact. The resulting non-detectable dissolved lead concentration supports the field observation that previously measured PCB concentrations were related to suspended particulates most likely attributable to historic fill potentially sourced from the neighboring New Bedford Harbor (NPL site).

Temporal Data

Groundwater samples were collected from the subject Site of four (4) occasions and analyzed for various potential contaminants of concern over the life of this assessment. The three sampling events account for three seasons albeit not in sequence and conditions over a seven year time period (1999 – 2007). In general, no reportable concentrations of groundwater impact (with exception to false positive PCB results) were discovered at any time. Temporal data was generated for soil contaminants as soil was sampled and analyzed on multiple occasions during the same time period (1999 – 2007). Based on the age and persistent nature of the release (fill placed during late 1800's) Site soil contaminant concentrations will likely not increase or decrease with time, making temporal soil data less pertinent. Detected concentrations will accordingly remain stable and persistent through the future as supported by the available temporal data.

Field Completeness

According to the available guidance and industry standards, the chemical contaminants most commonly associated with historic urban fill include: EPH, VPH, VOC, Metals, PCBs, PAHs, Pesticide, asbestos, cyanide and coal/wood ash. Various specific parameters can be eliminated from consideration based on the results of field screening, previous results and or the environmental sensitivity of the release site area. In addition, some target analytes are quantified via different methodologies allowing some flexibility with respect to requested analysis services. The following table provides a summary of analytical services requested for soil and groundwater samples with respect to the above listed common contaminants and the specifically identified confirmed Contaminants of Concern (RC exceedances).

Sample Locus	Media	Field Data	VPH	EPH	VOC	Metals	Lead	PCB	PAH	Pesticide	Asbestos	Cyanide	Coal Ash	confirmed Contaminants of Concern
SS-04A/GW-01	Soil	x	x	x	x	x	x	x	x			x		Lead, DiBenzo(a,h)anthracene, Benzo(a)pyrene
	Water		x	x		x	x	x	x	x		x		
SS-04B	Soil	x	x	x	x	x	x	x	x	x	x	x		Lead, Benzo(a)pyrene
CSS-1	Soil	x					x							Lead
CSS-2	Soil	x		x			x		x					Lead, Benzo(a)pyrene
CSS-3	Soil	x					x							Lead
CSS-4	Soil	x					x							Lead
CSS-5	Soil	x					x							Lead
CGW-1	Soil	x		x			x	x	x	x				Lead, DiBenzo(a,h)anthracene, Benzo(a)pyrene
	Water			x				x	x					
TP-1	Soil	x					x							
TP-2	Soil	x					x							
TP-3	Soil	x					x							
TP-4	Soil	x					x							
TP-5	Soil	x					x							
TP-6	Soil	x					x							Lead
TP-7	Soil	x					x							
TP-8	Soil	x					x							
BH1/CSE2	Soil	x		x			x	x	x					
	Water	x		x			x	x	x					
BH2/CSE3	Soil	x		x			x	x	x		x		x	Lead, Coal Ash
	Water	x		x			x	x	x					
BH6/CSE1	Soil	x		x			x	x	x		x		x	Lead
	Water	x		x			x	x	x					
BH6A	Soil	x		x		x	x	x				x		Lead
BH6B	Soil	x					x							Lead
BH6C	Soil	x					x							
BH6D	Soil	x					x							
CSE TP-1	Soil	x		x			x	x	x		x		x	Coal Ash
CSE TP-2	Soil	x		x			x	x	x		x			
CSE TP-3	Soil	x		x			x	x	x		x			

Notes:
X = analysis completed, results below RC standards
X = analysis completed, results exceed RC standards
Blank = analysis not completed

Review of the data tabulated above confirms that all of the most commonly associated contaminants of potential concern (listed above) have been analyzed for during historic assessment activities. The table is chronologically organized from top to bottom and depicts where previously undetected analytes were omitted from later sampling events (ie. VOC and VPH). The table confirms that the site has primarily been impacted by lead, DiBenzo(a,h)anthracene, Benzo(a)pyrene and Coal Ash. The contaminants of concern identified during the spectrum of analytical testing can be best and most effectively quantified via lead and PAH analysis. Analytical work completed for other historic fill related contaminants of concern did not reveal the presence of any laboratory quantified Reportable Conditions. Laboratory identification of coal ash and urban fill related contaminants are consistent with and confirm field observations. The combination of field observations and laboratory data provided the spatial adequacy necessary to identify Site limits and to evaluate for the presence of hot spots.

Groundwater impact does not exist at the subject Property and off-site migration of detected contaminants in soil is therefore not expected to occur. Although it has been demonstrated that the fill materials present on the subject Property extend beyond the Property boundaries and potentially into the nearby New Bedford Harbor, it is concluded that the level of assessment completed for the subject Property by the PRP is complete with respect to assessing and managing on site risks. Regional assessments completed by others were relied upon to determine the full extent and limits of urban fill related contamination.

Data Inconsistency

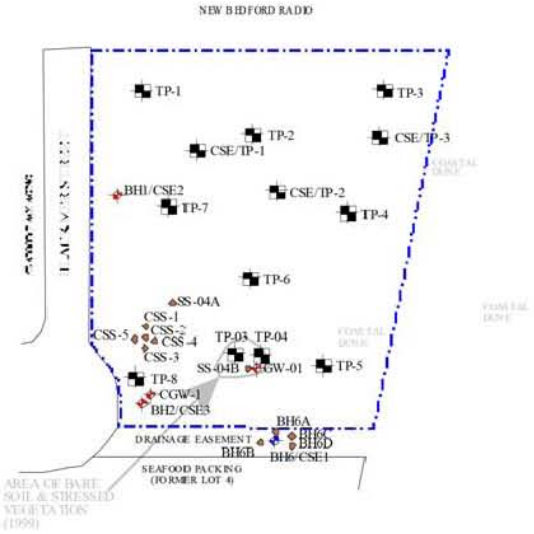
No inconsistent data were identified. Visual observations, odors and field screening were generally well correlated. Specifically, soil samples field noted to contain coal ash exhibited commensurate concentrations of heavy metals and PAHs. Elevated lead and PAH levels appear to coincide with the presence of the former Blackmer Street roadway and or historic outfall locations in the immediate vicinity of the former roadway. Areas beyond this location to the north and south exhibited similar contaminant concentrations but at concentrations more consistent with background for urban fill areas containing coal ash. All temporal data collected throughout the region appears to be consistent with the above defined Conceptual Site Model. In general, field observations of historic fill also related well to filled areas depicted in historic maps. Finally, PCB concentrations detected in sampled monitoring wells coincided directly with the field observation of suspended silts and sediments noted during sampling activities.

Data Not Used

As can be seen in the attached plans and tables, it is evident that PCB concentrations measured in site groundwater exceed applicable GW-3 standards. The detected concentrations far exceed the water solubility value of 0.277 mg/L for PCBs, which clearly indicates that the detections are attributable to particulates present in the sample. In order to technically support this supposition, groundwater was re-sampled on July 27, 2006 to evaluate for dissolved PCB concentrations.

Due to the fact that available guidance does not clearly support filtering of groundwater samples for PCB analysis, two samples were extracted from the well for reanalysis. One of the two samples (CSE-2A) was decanted to allow for settlement of suspended solids and the second (CSE-2B) was laboratory filtered. Both samples were analyzed for dissolved PCB's to be consistent with risk based standards and were found to contain non-detectable levels. With this information the initial (false positive) PCB in groundwater results were not used as part of the risk evaluation process.

Soil data not used are limited to those locations situated outside of the defined Site limits and those that are demonstrated to be consistent with background. This specifically includes all soil data generated for the northern portion of the subject Property recently closed via a partial-RAO and the BH6 sample cluster located on the southern abutting drainage easement owned by the City of New Bedford. Although not relevant to this report, it is also suggested that the elevated lead concentration detected at depth in BH6 of 106,000 ppm was highly inconsistent with the regional database generated throughout the former Standard Times site. The results of subsequent analytical testing of four surrounding sample locations (BH6A through BH6D) support the opinion that the data point is an anomaly and not representative of some widespread or serious condition of concern for the City of New Bedford (the current owner of the parcel).



See Figure 8
(for reference only)

Data Usability

Although all available laboratory reports were previously provided in the May 2006 Phase I Report, they have been duplicated in this report for ease of reference and in support of this and the attached Method 3 Risk Assessment. Historic data extracted from former consultants summary tables could not be verified because lab reports were not provided. The MADEP MCP Response Action Analytical Report Certification Form provided by GeoLabs indicates that soil and groundwater data generated in the 2006 assessments meet all the requirements for "Presumptive Certainty", as described in Section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data". All other quality control performance standards were met for the samples and no other laboratory quality control observations were noted. An assessment of data quality with specific reference to duplicate samples collected during this investigation is provided as an attachment to this report (refer to Appendix F). In general, it is evident based on a review of data

provided in the above summary tables that duplicate soil samples collected during this assessment failed to provide an adequate assessment of laboratory accuracy. The variability of detected concentrations demonstrates the non-uniform nature of the detected contaminants in site soils expected in areas of fill. As a result of this finding, duplicate samples were considered as discreet samples in the development of Exposure Point Concentrations in later sections of this report. As indicated above, although the data generated by previous consultants was utilized in the Method 3 Risk Assessment, it could not be evaluated for CAM compliance and as such are deemed to be non-CAM Compliant. It is argued that utilizing the data, which was generally confirmed through more recent CAM compliant data and was ultimately the reason for release notification, provides a conservative and representative estimate of site related risks. Furthermore, in consideration of the reputation within the environmental community of the specific previous consultants (M&E and Cygnus), it is deemed very likely that proper sample collection protocols were followed and the data would ultimately prove to be CAM compliant if the necessary information were available.

Uncertainty Assessment

No inconsistent data were identified. Visual observations, odors and field screening were generally well correlated. Additional technical justification for forgoing any specific activity required by 310 CMR 40.0000, related to Initial Site Investigation Activities performed in accordance with 310 CMR40.0405(1), judged by the LSP-of-Record to be unnecessary or inappropriate based upon the conditions and characteristics of this disposal site are provided in the pertinent sections of this report. Further uncertainties related to the findings of the Methods 3 Risk Characterization are provided in the OTO report.

8.0 PHASE III - REMEDIAL EVALUATION

According to Sections 301 CMR 40.0850 through 40.0864, a Phase III Evaluation and Selection of Comprehensive Remedial Action Alternatives is required to identify the most appropriate remedial action alternative which is a likely Permanent Solution, except where it is demonstrated pursuant to 310 CMR 40.0850 that a Permanent Solution is not feasible or that the implementation of a Temporary Solution would be more cost-effective and timely than the implementation of a feasible Permanent Solution.

Initial Screening and Selection of Remedial Action Alternatives

In accordance with the MCP, an identification and evaluation of remedial action alternatives shall be undertaken for all disposal sites where a Phase III is required. An effective evaluation involves the collection of background information regarding the type of contamination and a review of existing and potential future site conditions to determine whether or not site specific improvements would be obtained. The choice of two (2) or three (3) options which might be appropriate for a given site is based upon a systematic comparison of the characteristics of the

site and the correlating characteristics of the feasible alternatives. In order to fully evaluate the potential alternatives, an initial screening process was conducted which involved the following:

- Identifying remedial alternatives;
- Identifying remedial technologies which may be applicable to site specific conditions;
- Evaluating identified technologies; and,
- Determining their viability with respect to improving existing conditions.

Using the EPA document "Remediation Technologies Screening Matrix and Reference Guide (1993)", and various other on-line resources, the feasibility evaluation explored various remedial options. From review of the screening matrix, several proven remedial technologies that would successfully mitigate the residual metals and PAH contamination found in soil were identified. Specifically, the following remedial alternatives were evaluated.

1. Excavation of Residually Contaminated Soil
2. Soil Flushing
3. Solidification/Stabilization
4. Vitrification

A detailed evaluation of the remedial action alternatives identified by the initial screening is conducted to provide the basis for the selection of the remedial action alternative. The detailed evaluation shall evaluate and compare different remedial alternatives using the criteria described in 310 CMR 40.0858. A detailed evaluation is not required in those cases where a remedial action alternative identified during the initial screening:

(a) is proven to be effective in remediating the types of oil and hazardous material present at the disposal site, based upon experience gained at other disposal sites with similar site and contaminant conditions;
(b) results in the reuse, recycling, destruction, detoxification, treatment or any combination thereof of the oil and hazardous material present at the disposal site;
(c) can be implemented in a manner that will not pose a significant risk of harm to health, safety, public welfare or the environment, as described in 310 CMR 40.0900; and
(d) is likely to result in the reduction and/or control of oil and/or hazardous material at the disposal site to a degree and in a manner such that the requirements of a Class A Response Action Outcome as set forth in 310 CMR 40.1000 will be met.

The following discussion specific to each alternative identified in the initial screening phase addresses these points:

1. Excavation of Residually Contaminated Soil

The remedial option proposes the excavation of impacted soil located throughout the subject Site. The process simply involves the removal of the top zero to 7 feet of historic urban fill from

the subject Site with the use of heavy machinery. Once excavated, the contaminated material is then removed and transported to a permitted off-site treatment and/or disposal facility. In researching this option, it is evident that the removal of impacted soils would ultimately prove the most effective means for achieving background and establishing a condition of no significant risk for the foreseeable future. However, based on the known nature and extent of historic urban fill located throughout the Site, an estimated volume potentially exceeding 10,000 cubic yards of fill would require removal and replacement. Assuming a minimal disposal cost of $50 per ton, total financial outlay for **disposal alone** could easily exceed $750,000. These costs would obviously be reduced in the event that an accessible hot spot or UCL exceedance exists within the fill horizon, but neither condition was identified as part of site assessment activities.

2. Soil Flushing

The remedial option consists of utilizing water or water containing an additive to enhance the solubility of heavy metals remaining in soil. The heavy metals would then leach into the groundwater, which is then captured through hydraulic controls and extraction points and either treated on site or removed for disposal. Based on the fact that leaching of contaminants is not currently occurring at the subject Site it evident that this approach could potentially create a condition of risk to surrounding receptors that don't currently exist. Furthermore, the presence and potential transport of these additives in groundwater flow to the abutting water body may also pose additional risks beyond those posed by the release of Site contaminants. Ultimately, the premise of promoting inter-media transfer seems counterintuitive and disproportionately risky with respect protecting the environment. Based on this, this approach was considered to be infeasible based on potential impact to environmental receptors 310 CMR 40.0442(1)(b).

3. Solidification/Stabalization

The technology is employed to physically bind or enclose a contaminant within a stabilized mass (solidification), or to promote chemical reactions between the stabilizing agent and the contaminants to reduce their mobility. The effectiveness of this treatment in contingent upon the agitation of impacted soils so as to effectively lock up any contaminants. Accordingly, this would require removal and treatment of soils located to depths of 7 feet below ground surface on an approximate 1 acre parcel. In the event that the process is ineffective, multiple treatments may be required and logic would suggest that if personnel and machinery are to be utilized to excavate soils for treatment, it would be most effective to physically remove the material and dispose off site versus treating it in-situ and running the risk of requiring multiple evolutions. Furthermore, re-treatment would be further implicated by the presence of solidified surface materials effectively restricting access to underlying soils that may not have been effectively treated. Finally, this application would likely be most effective in circumstances where contaminants were solvent and impacting groundwater, which is not the case at the subject Site. Accordingly, this alternative is deemed infeasibile on the basis of disproportionate expense and applicability.

4. Vitrification

The technology employs electrodes for applying electricity, or joule heating, to melt contaminated soil, producing a glass and crystalline structure with very low leaching characteristics. This process is very expensive and is most often applied in situations where leaching potential exists. Based on the fact that groundwater impact at the subject Site is not apparent, the scale of this treatment is deemed to be prohibitive and disproportionately expensive relative to the overall gains.

In summary of the above, it is concluded that the most viable remedial option for effectively returning the site to levels approaching background and maintaining a condition of no significant risk for the foreseeable future is essentially limited to the excavation and disposal of impacted historic urban fill.

8.1 Feasibility Evaluation

In order to evaluate the feasibility of this alternative with respect to benefit, CSE relied on DEP Policy #WSC-04-160 (see above). According to the policy:

> *"...considerable confusion has historically existed over the meaning of "feasibility" under c. 21 E and the MCP. In the context of the law and regulations, "feasible" is not synonymous with "possible." Feasibility is also not solely a function of cost. While feasibility has a number of regulatory components, as discussed throughout the policy, most decisions come down to one key determinant: do the benefits of achieving a remedial endpoint outweigh the costs"? Accordingly, this benefit-vs.-cost element is the focus of said policy.*

The described policy provides specific approaches and criteria that DEP finds acceptable for evaluating the feasibility of achieving or approaching background and/or supporting a conclusion that achieving or approaching background is infeasible. While other approaches and metrics may also exist to conform to regulatory requirements, parties who elect to use the approaches and criteria articulated in this policy will be assured of Presumptive Certainty of agency acceptance.

According to said policy, certain types of pollutants located in specific environmental settings may be considered to be categorically infeasible to remediate to background. In these cases, documentation that disposal site conditions are consistent with the criteria provided in said document (subsections of 9.3.2) would be sufficient to support a conclusion that achieving or approaching background is not feasible. It is further stated that it would be unnecessary to conduct a site-specific feasibility evaluation for that particular scenario.

With specific reference to the subject Site, according to Section 9.3.2.4 (**Remediation of Persistent Contaminants Located in S-2 and S-3 Soils),** it is DEP's position that achieving or approaching background can be deemed infeasible for persistent contaminants in soil located in

areas with lower exposure potential (i.e., S-2 and S-3 soil categories). For example, this policy supports a finding that it is infeasible to achieve or approach background for vinyl chloride (a persistent compound) in soil located in an area classified as S-2 or S-3.

Table 9-2 of the policy provides a list of contaminants that are considered persistent in the environment. This list is consistent with those organic compounds considered to be persistent in the environment as provided on Table 4 of 310 CMR 40.1514(4); it also includes metals, which are considered to be persistent in the environment. Based on a comparison of the contaminants of concern identified in the attached Method 3 Risk Assessment, it is evident that site contaminants and soil classifications fit these criteria. As such and in accordance with Policy #WSC-04-160, a site-specific feasibility assessment as described at 310 CMR 40.0860 is not required, as it is categorically infeasible to return the subject Site to background.

8.2 Phase III Completion Statement

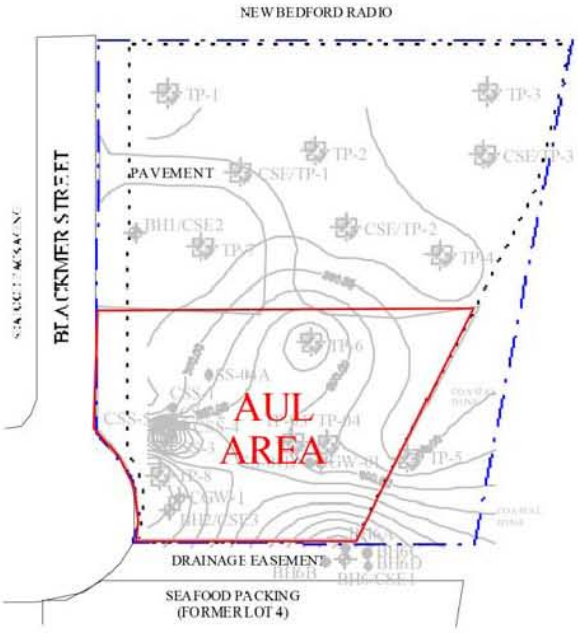
In review of the above, it is evident that based on the known nature and extent of impacted historic urban fill at the subject Site, no feasible alternative for Site remediation to background exists. Furthermore, based on the results of the Method 3 Risk Characterization no remediation was deemed necessary to ensure a condition of no significant risk under either current use or proposed future use. However, due to potential significant risks associated with residential use of the site an AUL was deemed necessary to achieve a permanent solution. In light of the PRPs intent to immediately develop the subject Site for use as a paved parking lot, it was decided that the pavement would be best emplaced prior to site closure to ensure consistency and relevancy with respect to the proposed AUL. Although this action (completed in the fall of 2008 as a Release Abatement Measure) essentially resulted in the "capping" of impacted soils with an asphalt lot, the need for an MCP defined "Engineered Barrier" is **not** required for this release Site based on the lack of UCL exceedances and Method 3 Risk Characterization findings. The paved lot hereby eliminates all potential exposure pathways to the underlying soil ("locking in" the S2/S3 soil categorization) and facilitates the property owner's ability to maintain compliance with the restrictions of the implemented AUL with minimal costs or regulation.

9.0 LSP OPINION AND CONCLUSIONS

The following is an exact copy of the LSP Opinion included in the Activity and Use Limitation implemented to ensure a condition of no significant risk for the foreseeable future. A copy of the registry certified document is provided as required as Appendix G of this report.

In accordance with the requirements of 310 CMR 40.1074, this Licensed Site Professional (LSP) Opinion has been prepared in support of the Notice of Activity and Use Limitation (AUL) for a portion of the parcel of land identified on City of New Bedford Assessor's Plat 25A as Lot 49, and addressed as 16 Blackmer Street, New Bedford, Massachusetts (the Property). At the time

of the recording of this AUL, the 2.185 acre parcel of vacant land is located within a working waterfront district zoned for industrial use. As illustrated in Exhibit B attached hereto, a large paved parking area occupies the southernmost portion of the Property. A City drainage easement abuts the southern Property line.



See Figure 10
(for reference only)

Site History

Multiple 21E investigations conducted at the Property have identified elevated levels of lead, petroleum hydrocarbons and polycyclic aromatic hydrocarbons (PAH's) in soil, likely attributable to the presence of historic urban fill emplaced along the New Bedford waterfront area. The Department of Environmental Protection (DEP) was notified of the release condition (lead and PAH), and Phase I and Phase II site investigations were completed at the site to define the extent and magnitude of contamination. The primary contaminant of concern was identified as lead and was detected at concentrations ranging from 42 mg/kg to 287 mg/kg in surface and subsurface soil (from 0 to 8 feet in depth) situated throughout the unpaved northern portion of the Property. Higher levels of lead were found in soil samples collected from the same depths beneath the currently paved southern portion of the Property at concentrations ranging from 30 to 5780 mg/kg. Other contamination detected above state reportable concentrations identified at the site generally mirrored the locations and trends exhibited by lead and specifically consisted of Benzo(a)pyrene at concentrations as high as 13 mg/kg; Dibenzo(a,h)anthracene at concentrations as high as 10 mg/kg; and petroleum hydrocarbons at concentrations as high as 900 mg/kg. Groundwater monitoring has adequately demonstrated that the release has not affected groundwater.

Reason for Activity and Use Limitation

A Method 3 Risk Characterization was prepared to support a Response Action Outcome for the site. The Risk Characterization concluded that No Significant Risk to human health, safety, public welfare, and the environment exists for activities and uses consistent with current

commercial/industrial uses of the Property including emergency utility work and/or any construction projects. However, a level of No Significant Risk is not supported for future unrestricted activities and uses of the southern paved portion of the Property, such as those which may result in a child's exposure through direct contact with and/or ingestion of the contaminated soil. In order to maintain a level of No Significant Risk for future foreseeable site activities and uses, an Activity and Use Limitation is necessary to ensure that the soil currently located beneath the paved area located on the southern portion of the Property remains inaccessible and the exposure pathways remain incomplete. To that end, the Activity and Use Limitation will require the maintenance of the current pavement or other suitable physical barrier (including buildings and concrete sidewalks) so that direct contact with underlying soils is not possible by visitors to the subject Property. In addition, activities which may result in the disturbance or relocation of the underlying soil to more accessible areas must also be restricted. The following presents said obligations and conditions as provided in the Activity and Use Limitation.

Permitted Uses and Activities

(i) Commercial and industrial activities and uses including, but not limited to, vehicular parking, pedestrian and vehicular traffic, passive recreation, landscaping, routine maintenance or any other use that does not compromise the structural integrity of the protective barrier, as defined in 3.(iv) and/or disturb contaminated soil located directly beneath the barrier;

(ii) Excavation associated with emergency or short term (three months or less) underground utility and/or construction work, provided it is conducted in accordance with a Soil Management Plan and a Health and Safety Plan in accordance with Obligations (i) and (ii) of this Notice; and involves the repair and/or replacement of the protective barrier with a comparable barrier immediately following the completion of the project;

(iii) Activities and uses that are not identified by this Notice as being inconsistent with maintaining a condition of No Significant Risk; and

(iv) Such other activities and uses which, in the Opinion of an LSP, shall present no greater risk of harm to health, safety, public welfare, or the environment than the activities and uses set forth in this paragraph.

Restricted Uses and Activities

(i) Use of the Property as a residence, school, nursery, daycare, recreational area and/or other such use at which a child's regular presence is likely;

(ii) Activities and/or uses which are likely to involve the removal and/or disturbance of the

protective barrier in the AUL Area and/or the disturbance of the contaminated soil located beneath the protective barrier without prior development of a Soil Management Plan and a Health and Safety Plan in accordance with Obligations (i) and (ii) of this Opinion;

(iii) Relocation of the contaminated soil from beneath the protective barrier in the AUL Area unless an LSP renders an Opinion that states such relocation is consistent with maintaining a condition of No Significant Risk; and

(iv) Activities and/or uses that may cause physical or chemical deterioration, breakage, or structural damage to the protective barrier.

Obligations and Conditions

(i) A Soil Management Plan must be prepared by an LSP and implemented prior to the commencement of any activity that is likely to disturb the contaminated soil located immediately beneath the protective barrier. The Soil Management Plan should describe appropriate soil excavation, handling, storage, transport, and disposal procedures and include a description of the engineering controls and air monitoring procedures necessary to ensure that workers and receptors in the vicinity are not affected by fugitive dust or particulates. On-site workers must be informed of the requirements of the Soil Management Plan, and the plan must be available on-site throughout the course of the project;

(ii) A Health and Safety Plan must be prepared by a Certified Industrial Hygienist or other qualified individual sufficiently trained in worker health and safety requirements and implemented prior to the commencement of any activity which involves the removal and/or disturbance of the protective barrier and/or is likely to disturb the underlying contaminated soil, rendering it more accessible. The plan should clearly describe the location of the contaminated soil and specifically identify the types of personal protective equipment, monitoring devices, and engineering controls necessary to ensure that workers are not exposed to the contaminated soil through dermal contact, ingestion, and/or the inhalation of particulate dusts. Workers who may come in contact with contaminated soil within the designated AUL area must be informed of the location of the contamination and all requirements of the Health and Safety Plan. The plan must be available on-site throughout the course of the project;

(iii) The protective barrier within the AUL Area must be repaired and/or replaced with a comparable barrier to prevent future exposures to underlying contaminated soil immediately following the completion of any activity that involves its removal and/or disturbance;

(iv) The protective barrier shall consist of either a minimum of 3-inches of asphalt pavement (or concrete), 3-feet of clean soil or a building;

(v) The protective barrier must be maintained within the designated AUL area to ensure that the contaminated soil located beneath the barrier remains inaccessible; and

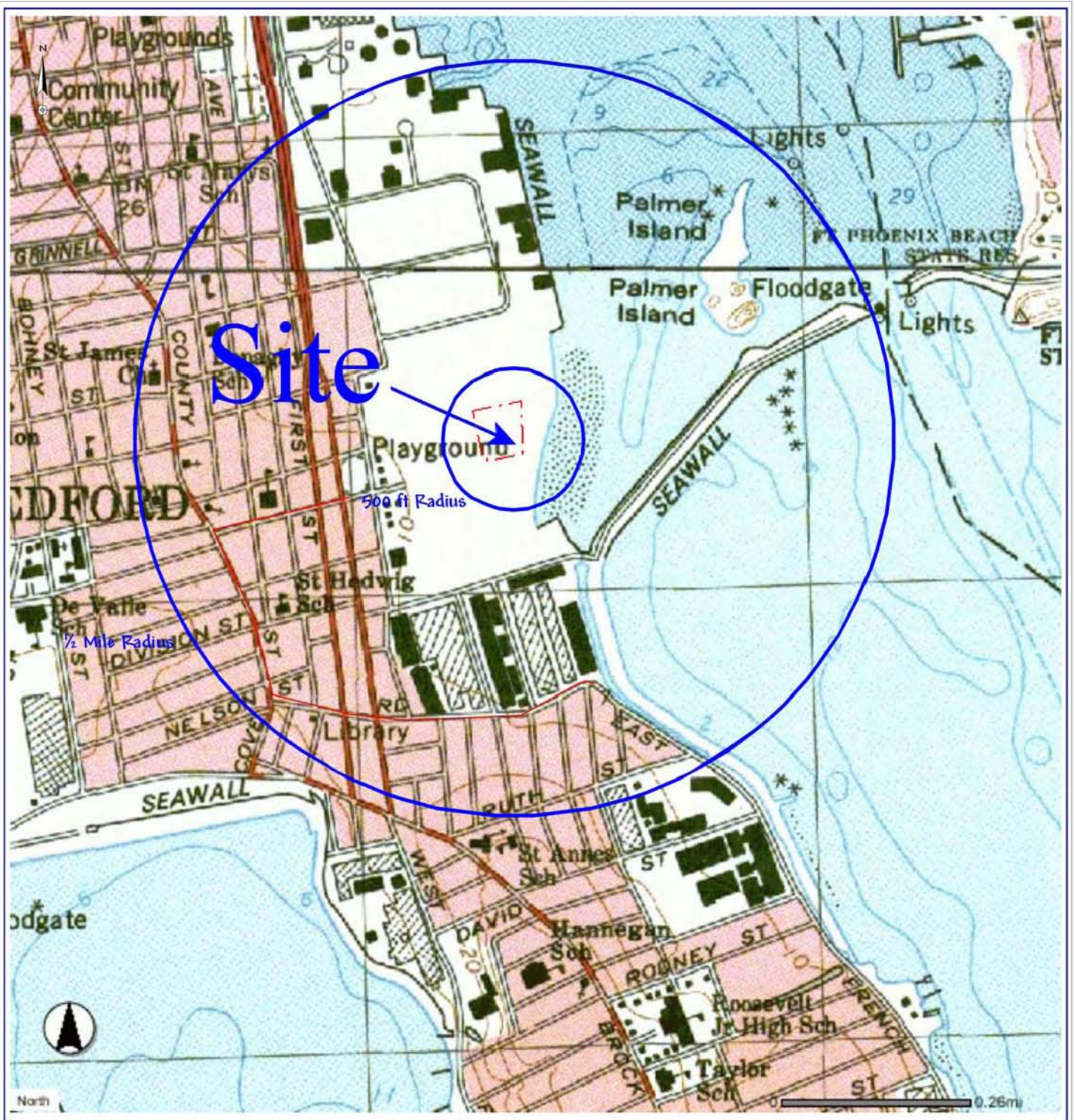
(vi) Annual inspections and associated record-keeping activities must be performed to confirm that the barrier is being properly maintained to prevent exposure(s) to contaminated soil located immediately beneath the protective barrier.

10.0 PUBLIC INVOLVEMENT

Public involvement notifications relevant to the submittal of this Phase II Comprehensive Site assessment, Phase III Remedial Evaluation and Class A-3 Response Action Outcome Report will be conducted in accordance with 310 CMR 40.1400. Specifically, notifications to the City of New Bedford Environmental Stewardship Office and Board of Health are being made concurrent with this submittal by forwarding the cover letter of this report along with copies of the registry certified AUL and the scheduled newspaper advertisement provided in Appendix H.

Also, during July 2006 assessment activities aimed at developing an Activity and Use Limitation for the southern portion of the Property it was realized that the southern easement is owned by the City of New Bedford. Immediately upon discovering that BH6, BH6A-BH6D/CSE1 was located on City of New Bedford property, Common Sense contacted Scott Alphonse, Director of Environmental Stewardship for the City of New Bedford on August 7, 2006. Common Sense personally met with Mr. Alphonse on August 25, 2006 to explain the situation and provide a copy of the applicable field data. Subsequently, the City of New Bedford was officially notified on September 19, 2006 in compliance with 310 CMR 40.1403(9) and 310 CMR 40.1404. A copy of which is also presented in Appendix G.

Figures



NOTES:
BASE MAP TAKEN FROM 7.5 MINUTE
USGS QUADRANGLE MAP:
NEW BEDFORD SOUTH, MASSACHUSETTS (1977)

DRAWN BY: KB PROJ. MGR: CG PROJECT NO: W024 SCALE: NOTED DATE: 09/24/08	UTM COORDINATES: Zone 19 0340386E 4609282N	SITE LOCUS	FIGURE NUMBER:
	COMMON SENSE ENVIRONMENTAL, INC. 50 THERESA STREET DARTMOUTH, MASSACHUSETTS 02748 PHONE: 508-991-3491	FORMER LOT 3 16 BLACKMER STREETS NEW BEDFORD, MASSACHUSETTS	1

DRAWN BY: KB

PROJ. MGR: CG

PROJECT NO: W024

SCALE: NOTED

DATE: 09/24/08

AERIAL PHOTOGRAPH

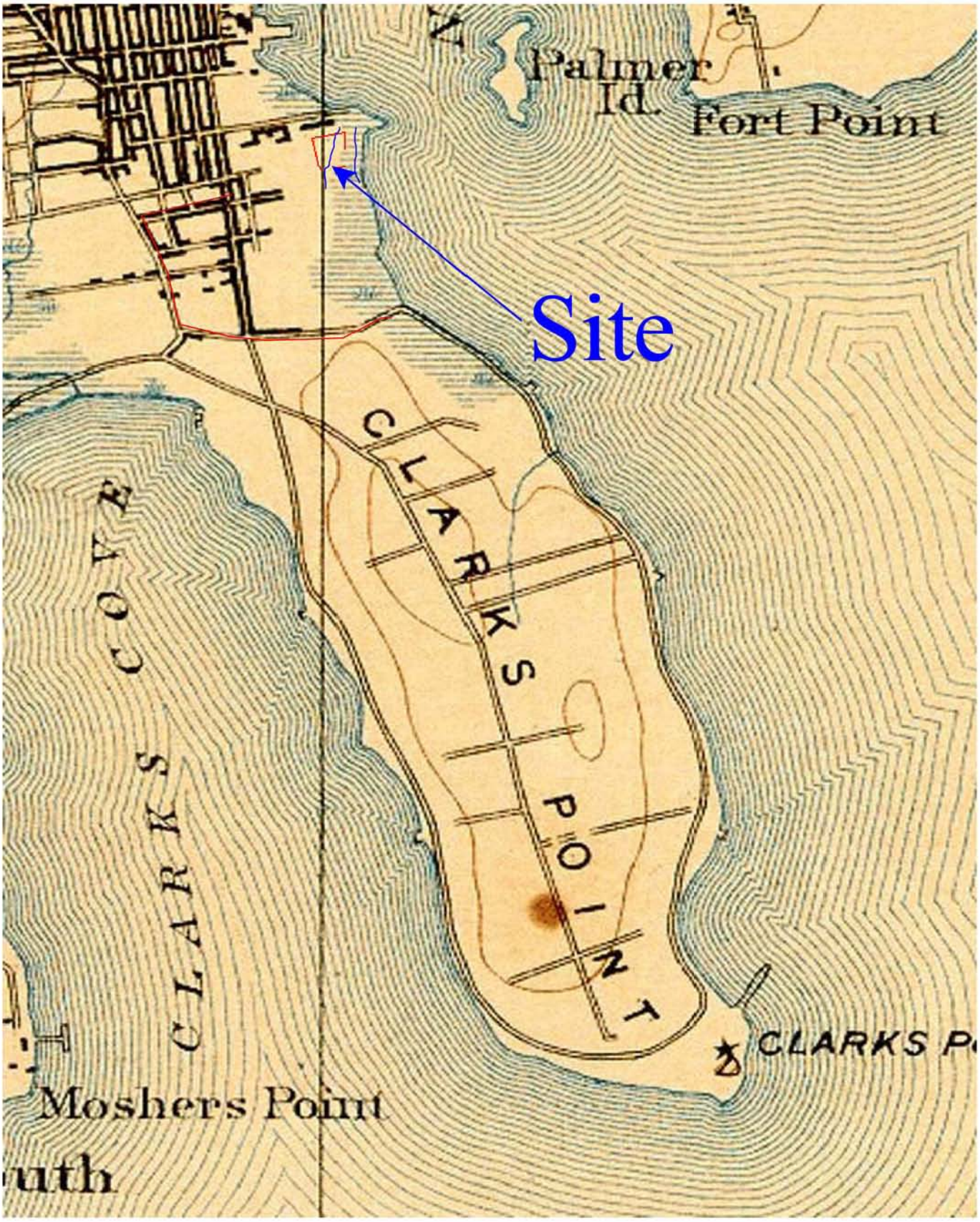
COMMON SENSE ENVIRONMENTAL, INC.
50 THERESA STREET
DARTMOUTH, MASSACHUSETTS 02748
PHONE: 508-991-3491

FORMER LOT 3
16 BLACKMER STREETS
NEW BEDFORD, MASSACHUSETTS

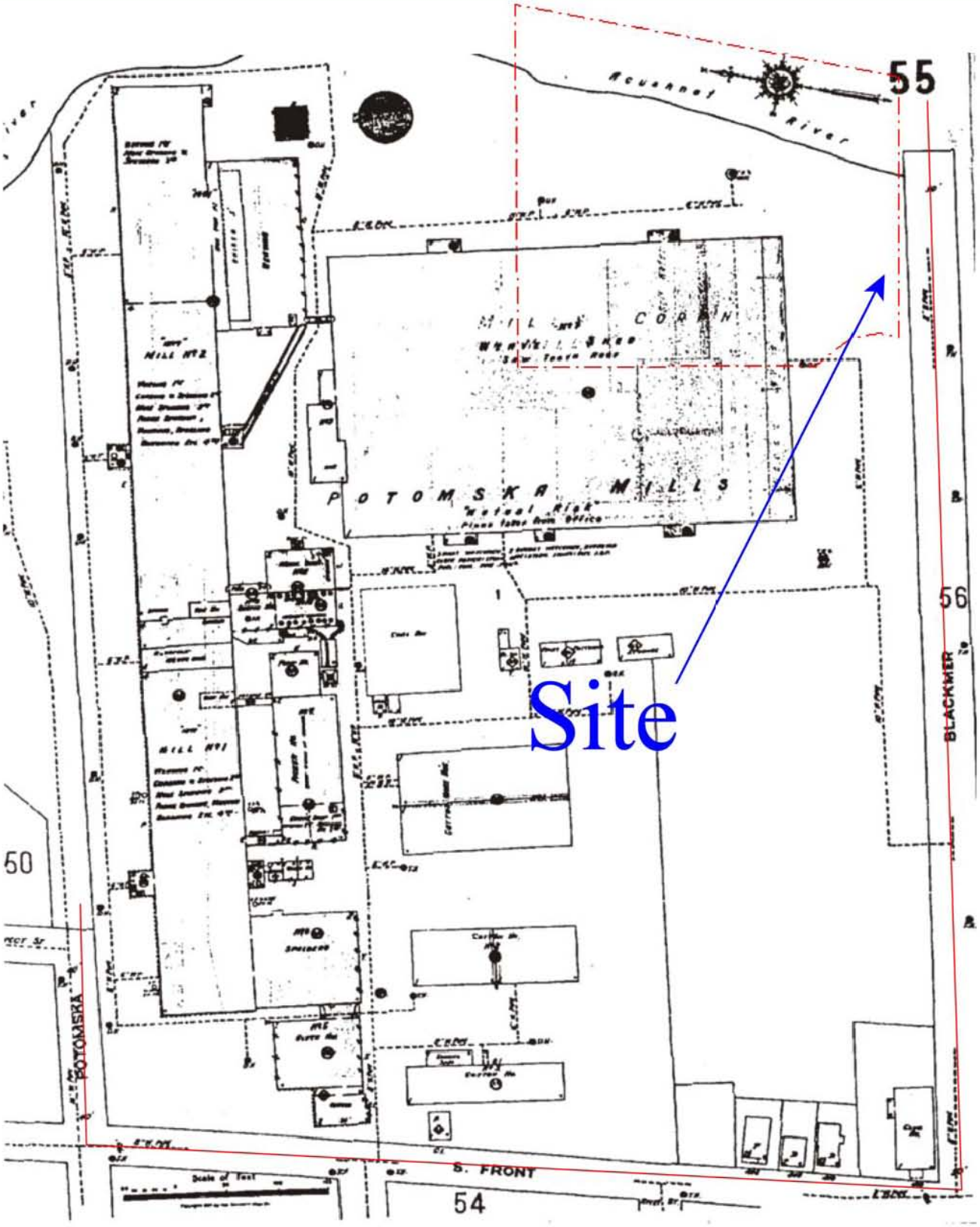
FIGURE NUMBER:

2

DRAWN BY: KB PROJ. MGR: CG PROJECT NO: W024 SCALE: NOTED DATE: 09/24/08	UTM COORDINATES: Zone 19 0340386E 4609282N	BWSC PRIORITY RESOURCE	FIGURE NUMBER: 3
	COMMON SENSE ENVIRONMENTAL, INC. 50 THERESA STREET DARTMOUTH, MASSACHUSETTS 02748 PHONE: 508-991-3491	FORMER LOT 3 16 BLACKMER STREETS NEW BEDFORD, MASSACHUSETTS	

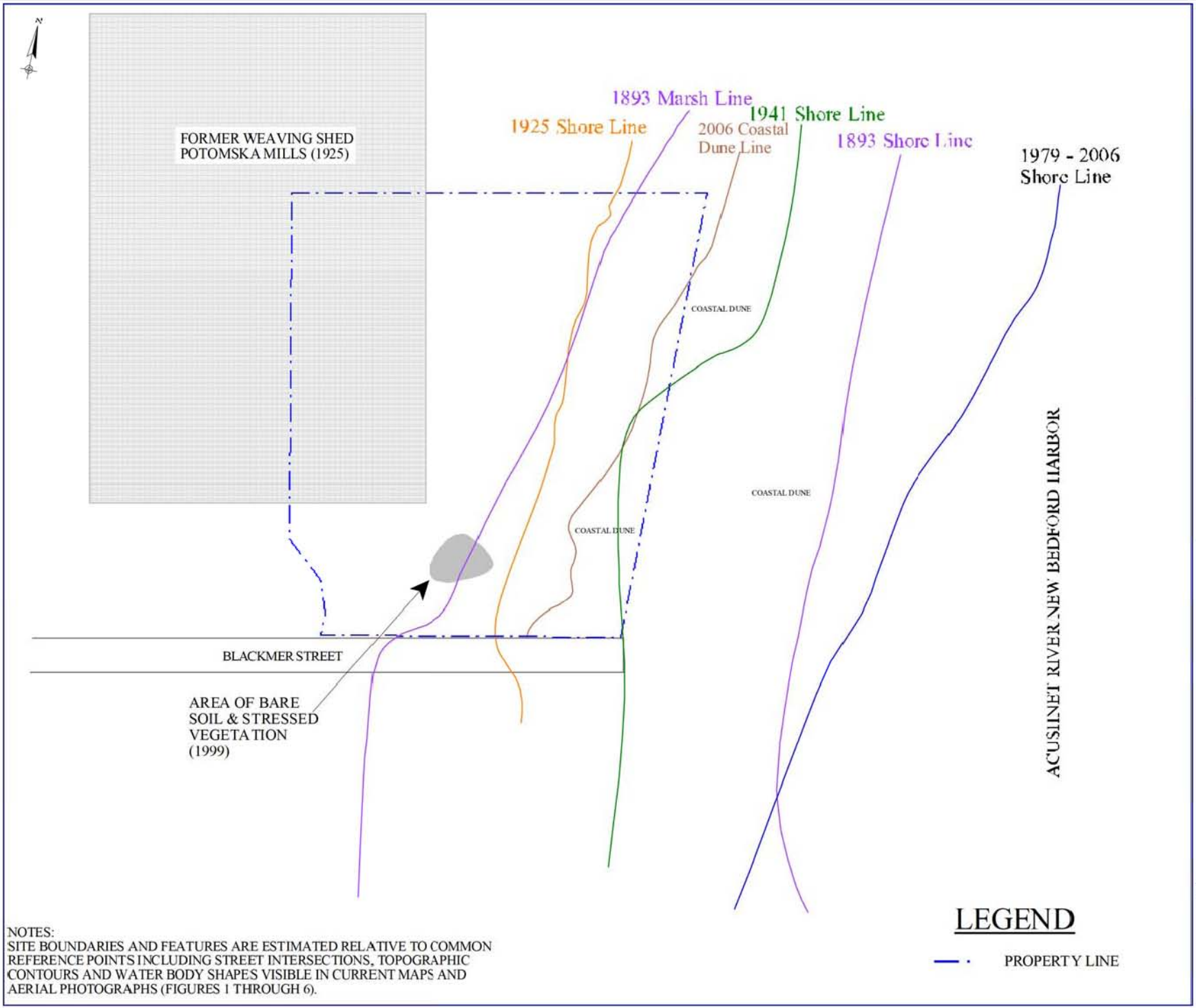


DRAWN BY: KJB PROJ. MGR: KJB PROJECT NO: W024 SCALE: NTS DATE: 09/24/08	USGS TOPOGRAPHIC MAP 1893	FIGURE NUMBER: 4
	COMMON SENSE ENVIRONMENTAL, INC. 50 THERESA STREET DARTMOUTH, MASSACHUSETTS 02748 PHONE: 508-991-3491	FORMER LOT 3 16 BLACKMER STREETS NEW BEDFORD, MASSACHUSETTS



DRAWN BY: KJB PROJ. MGR: KJB PROJECT NO: W024 SCALE: NTS DATE: 09/24/08	SANBORN FIRE INSURANCE MAP 1925		FIGURE NUMBER: 5
	COMMON SENSE ENVIRONMENTAL, INC. 50 THERESA STREET DARTMOUTH, MASSACHUSETTS 02748 PHONE: 508-991-3491	FORMER LOT 3 16 BLACKMER STREETS NEW BEDFORD, MASSACHUSETTS	

DRAWN BY: KJB PROJ. MGR: KJB PROJECT NO: W024 SCALE: NTS DATE: 09/24/08	USGS TOPOGRAPHIC MAP 1941		FIGURE NUMBER: 6
	COMMON SENSE ENVIRONMENTAL, INC. 50 THERESA STREET DARTMOUTH, MASSACHUSETTS 02748 PHONE: 508-991-3491	FORMER LOT 3 16 BLACKMER STREETS NEW BEDFORD, MASSACHUSETTS	



NOTES:
SITE BOUNDARIES AND FEATURES ARE ESTIMATED RELATIVE TO COMMON REFERENCE POINTS INCLUDING STREET INTERSECTIONS, TOPOGRAPHIC CONTOURS AND WATER BODY SHAPES VISIBLE IN CURRENT MAPS AND AERIAL PHOTOGRAPHS (FIGURES 1 THROUGH 6).

GRAPHICAL SCALE
50 25 0 50

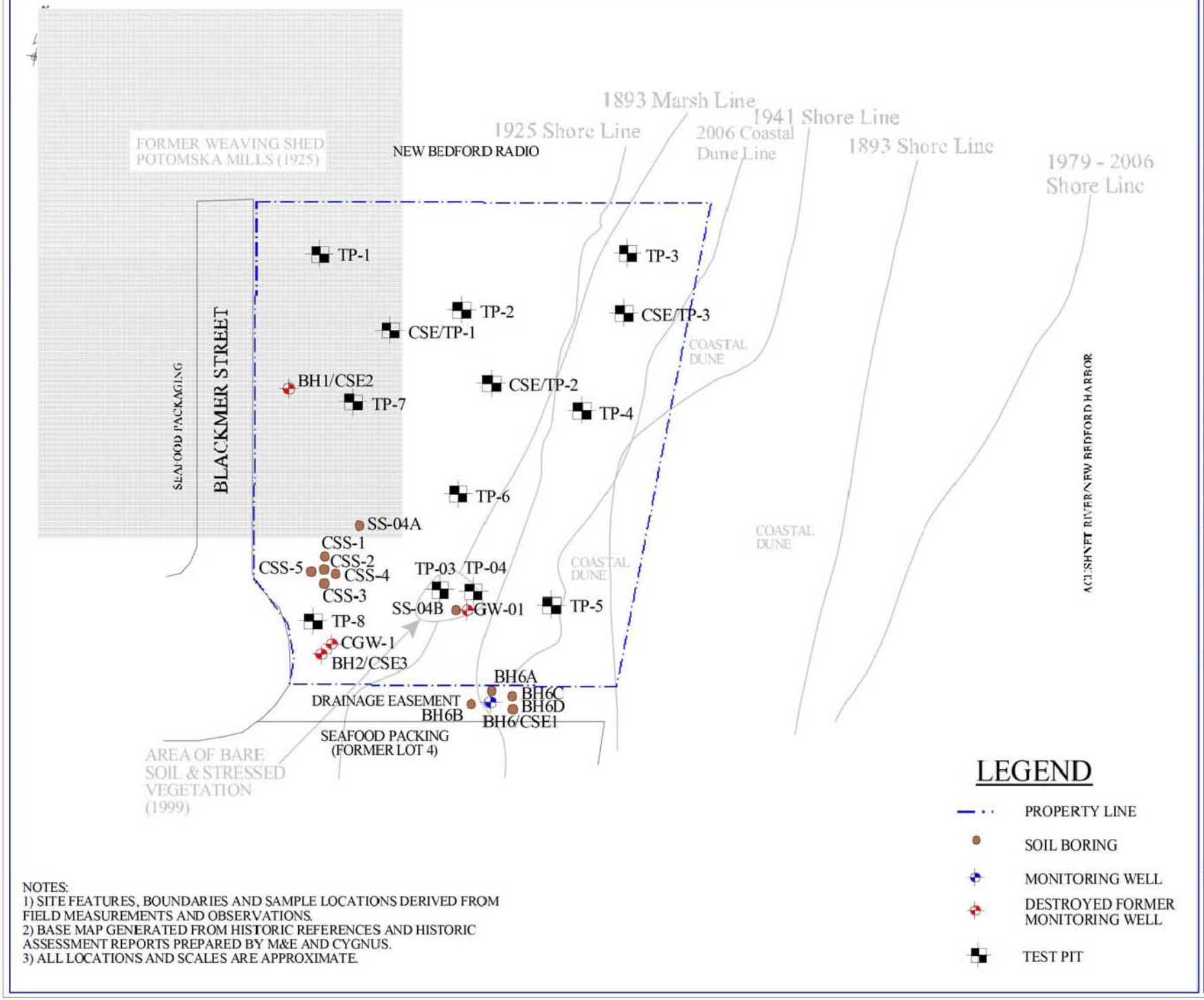
COMMON SENSE ENVIRONMENTAL, INC.
50 THERESA STREET
DARTMOUTH, MASSACHUSETTS 02748
PHONE: 508-991-3491

DRAWN BY: KJB
PROJ. MGR: KJB
PROJECT NO: W024
SCALE: NOTED
DATE: 9/24/08

HISTORIC USE PLAN

FORMER LOT 3
16 BLACKMER STREET
NEW BEDFORD, MASSACHUSETTS

FIGURE NUMBER:
7



NOTES:
1) SITE FEATURES, BOUNDARIES AND SAMPLE LOCATIONS DERIVED FROM FIELD MEASUREMENTS AND OBSERVATIONS.
2) BASE MAP GENERATED FROM HISTORIC REFERENCES AND HISTORIC ASSESSMENT REPORTS PREPARED BY M&E AND CYGNUS.
3) ALL LOCATIONS AND SCALES ARE APPROXIMATE.

GRAPHICAL SCALE
50 25 0 50

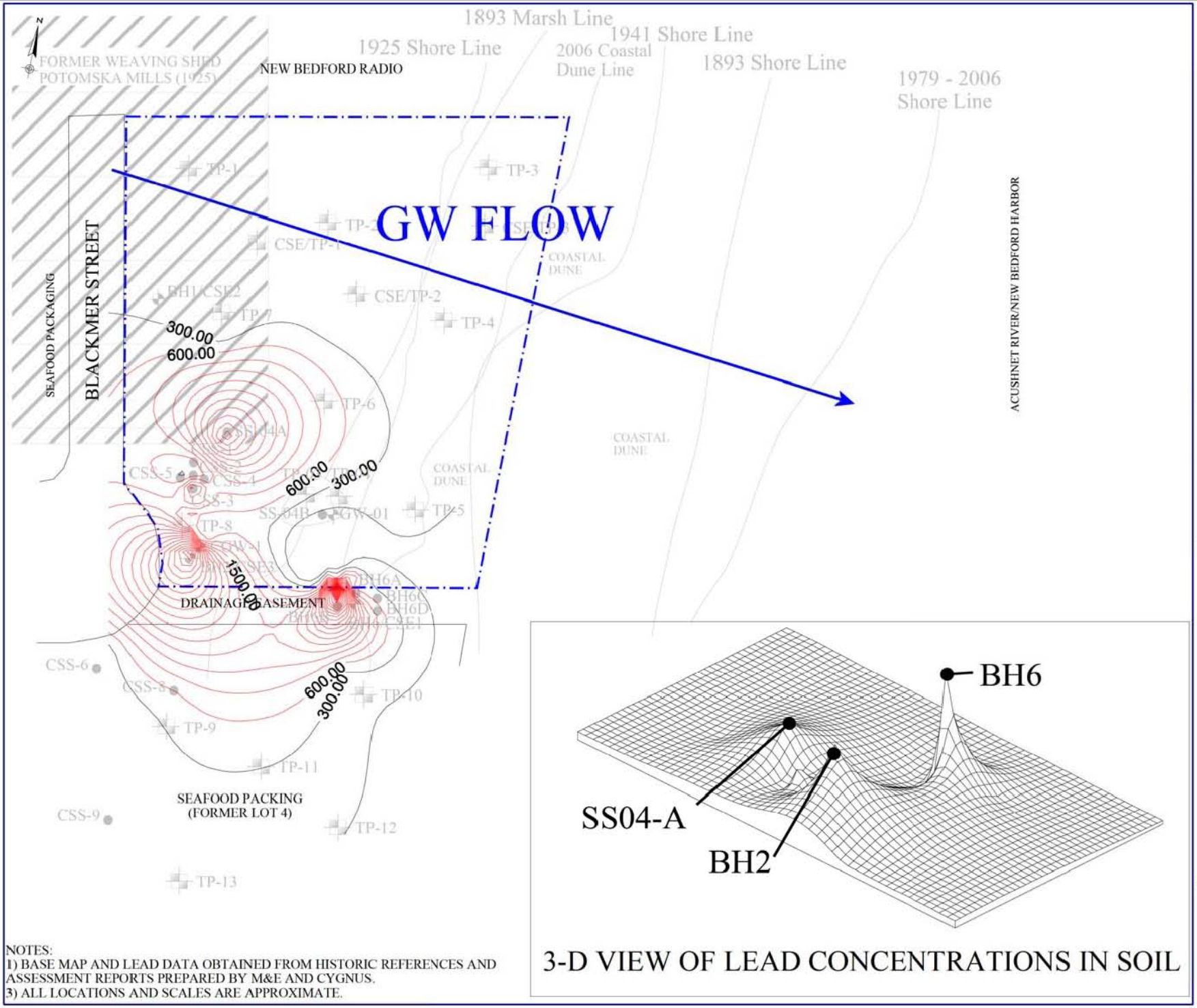
COMMON SENSE ENVIRONMENTAL, INC.
90 THERESA STREET
DARTMOUTH, MASSACHUSETTS 02748
PHONE: 508-991-3491

DRAWN BY: KJB
PROJ. MGR: KJB
PROJECT NO: W024
SCALE: NOTED
DATE: 9/24/08

MASTER SAMPLING PLAN

FORMER LOT 3
16 BLACKMER STREET
NEW BEDFORD, MASSACHUSETTS

FIGURE NUMBER:
8



NOTES:
1) BASE MAP AND LEAD DATA OBTAINED FROM HISTORIC REFERENCES AND ASSESSMENT REPORTS PREPARED BY M&E AND CYGNUS.
3) ALL LOCATIONS AND SCALES ARE APPROXIMATE.

GRAPHICAL SCALE
50 25 0 50

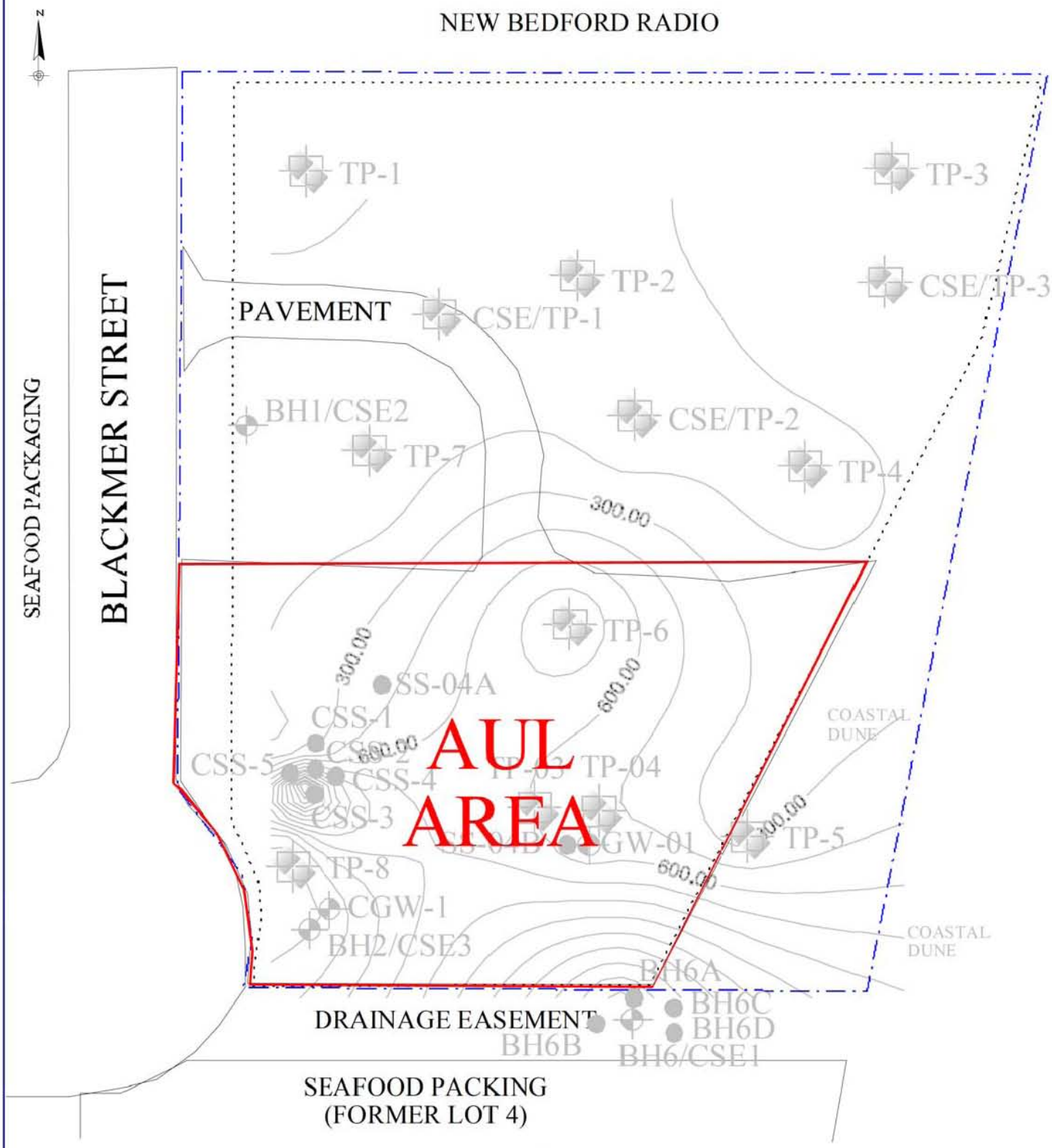
COMMON SENSE ENVIRONMENTAL, INC.
50 THERESA STREET
DARTMOUTH, MASSACHUSETTS 02748
PHONE: 508-991-3491

DRAWN BY: KJB
PROJ. MGR: KJB
PROJECT NO: W024
SCALE: NOTED
DATE: 9/24/08

CONCEPTUAL SITE MODEL

FORMER LOT 3
16 BLACKMER STREET
NEW BEDFORD, MASSACHUSETTS

FIGURE NUMBER:
9



NOTES:
(1) DRAWING DETAILS OBTAINED FROM ASSESSORS MAPS, AERIAL PHOTOGRAPHS, SURVEY PLANS GENERATED BY SITEC ENGINEERING INC. AND FIELD OBSERVATIONS. ALL SCALES ARE APPROXIMATE.
(2) LEAD CONTOURS REPRESENT TOTAL LEAD ON SOIL FROM 0-3 FEET BGS.

DRAWN BY: KJB PROJ. MGR: KJB PROJECT NO: W024 SCALE: 1" = 30' DATE: 09/24/08	GRAPHICAL SCALE 30 15 0 30	AUL AREA PLAN	FIGURE NUMBER: 10
	COMMON SENSE ENVIRONMENTAL, INC. 50 THERESA STREET DARTMOUTH, MASSACHUSETTS 02748 PHONE: 508-991-3491	FORMER LOT 3 16 BLACKMER STREETS NEW BEDFORD, MASSACHUSETTS	

Tables

Table 1A
EPH, PAHs, and Coal Ash Soil Data
16 Blackmer Street
New Bedford, MA
1999, 2000, and 2006
Concentration (mg/kg)

SAMPLE IDENTIFICATION SAMPLE DEPTH (FT) COLLECTION DATE	Reportable Concentrations updated Feb. 2008 RCS-1	 RSC-2	SS-04A** 0-3 09/28/99	SS-04B** 0-3 09/28/99	TP-03 M&E 01/2000	TP-04 M&E 01/2000	CSS-2 0-3 03/06/00	CSS-2 3-6 03/06/00	CSS-500* 0-3 03/06/00	CSS-500* 3-6 03/06/00	CGW1/S-3 0-2 03/07/00	BH2 2.5-4 05/25/06	BH2 4-6.5 05/25/06	Duplicate 4 (CSETP1 3-6') 05/25/06
TARGET EPH														
C9-C18 Aliphatic Hydrocarbons	1,000	3,000	3.2	ND	DU	DU	ND	ND	ND	ND	ND	<13.2	<11.8	<13.0
C19-C36 Aliphatic Hydrocarbons	3,000	5,000	50	19	DU	DU	29	17.0	27.0	16.0	32.0	32.2	19.2	<13.0
C11-C22 Aromatic Hydrocarbons	1,000	3,000	180	120	DU	DU	78.0	280.0	120.0	240.0	180.0	117.0	177.0	<13.0
PAHs														
Naphthalene	4	40	0.45	0.51	DU	DU	ND	2.200	ND	0.550	0.740	0.203	0.280	<0.0649
2-Methylnaphthalene	0.7	80	0.44	0.25	DU	DU	5.000	0.860	ND	ND	ND	<0.0658	<0.058	<0.0649
Acenaphthene	2	3,000	0.47	1.2	DU	DU	ND	2.000	0.900	0.850	2.100	0.405	0.689	<0.130
Phenanthrene	10	1,000	11	14	DU	DU	5.400	36.000	7.900	27.000	23.000	5.770	8.260	<0.0649
Acenaphthylene	1	10	1.2	0.7	DU	DU	ND	0.600	ND	0.540	ND	0.213	0.276	<0.0649
Fluorene	1,000	3,000	1.6	1.4	DU	DU	0.640	3.800	0.990	2.200	2.800	0.495	0.795	<0.0325
Anthracene	1,000	3,000	3.3	4.2	DU	DU	1.400	8.300	2.300	6.400	6.500	1.130	1.720	<0.0649
Fluoranthene	1,000	3,000	16	21	DU	DU	7.60	41.00	9.600	35.000	23.000	8.430	10.800	<0.260
Pyrene	1,000	3,000	20	19	DU	DU	7.60	38.00	9.700	32.000	22.000	7.110	8.910	<0.260
Benz[a]Anthracene	7	40	8.9	10	DU	DU	3.50	17.00	4.500	16.000	9.800	3.470	4.380	<0.130
Chrysene	70	400	8.4	9.9	DU	DU	3.80	16.00	4.900	13.000	10.000	3.470	4.470	<0.130
Benzo[b]Fluoranthene	7	40	7.7	9.1	DU	DU	3.900	18.000	5.100	14.000	9.700	<0.197	<0.176	<0.195
Benzo[k]Fluoranthene	70	400	5	11	DU	DU	1.60	3.50	2.500	5.600	4.600	<0.132	<0.118	<0.130
Benzo[a]Pyrene	2	4	**8.2**	**11**	DU	DU	**3.200**	**13.000**	**4.100**	**11.000**	**8.400**	<0.132	<0.118	<0.130
Indeno[1,2,3-c,d]Pyrene	7	40	7.5	7.4	DU	DU	2.600	10.000	4.000	9.200	6.500	<0.0658	<0.0588	<0.0649
Dibenzo[a,h]Anthracene	0.7	4	**7.5**	2.5	DU	DU	2.600	**10.000**	**4.000**	**9.200**	**6.500**	<0.132	<0.118	<0.130
Benzo[g,h,i]Perylene	1,000	3,000	5.3	8.3	DU	DU	2.000	7.300	3.600	6.700	4.700	<0.132	<0.118	<0.130
COAL ASH							NA	NA	NA	NA	NA	NA	coal ash	NA

* Duplicate of CSS-2
ND - Non Detect
NA - Not Analyzed
NS - Not Specified
Bold indicates RCS2 threshold exceeded

Cygnus TP-1 through TP-8 were NA for EPH/PAH
RCs updated in Feb 2008
** Pesticides detected at estimated concentrations less than the RSC-2 standards.
DU - Data unkown/Unavailable - data tables, missing from M&E and Cyngus reports, but discussed in body of report.

Table 1A
EPH, PAHs, and Coal Ash Soil Data
16 Blackmer Street
New Bedford, MA
1999, 2000, and 2006
Concentration (mg/kg)

SAMPLE IDENTIFICATION SAMPLE DEPTH (FT) COLLECTION DATE	Reportable Concentrations updated Feb. 2008 RCS-1	RSC-2	BH1 0-2.5 05/25/06	BH-1 2.5-5 05/25/06	CSE TP-1 0-3 05/25/06	CSE TP-1 3-6 05/25/06	CSE TP-2 0-3 05/25/06	CSE TP-2 3-6 05/25/06	CSE TP-3 0-3 05/25/06	Duplicate 3 (CSETP3 0-3') 05/25/06	CSE TP-3 3-6 05/25/06
TARGET EPH											
C9-C18 Aliphatic Hydrocarbons	1,000	3,000	<11.5	<12.2	<14.5	<13.2	<15.2	<15.4	<12.0	<12.3	<13.3
C19-C36 Aliphatic Hydrocarbons	3,000	5,000	20.2	83.4	<14.5	<13.2	15.2	54.7	12.7	44.1	<13.3
C11-C22 Aromatic Hydrocarbons	1,000	3,000	292.0	242.0	<14.5	<13.2	902.0	84.3	337.0	613.0	<13.3
PAHs											
Naphthalene	4	40	0.147	0.239	<0.0725	<0.0658	<0.0758	<0.0769	0.210	0.185	<0.0667
2-Methylnaphthalene	0.7	80	<0.057	<0.061	<0.0725	<0.0658	<0.0758	<0.0769	<0.0602	<0.0617	<0.0667
Acenaphthene	2	3,000	0.602	0.420	<0.145	0.132	<0.152	<0.154	0.301	0.827	<0.133
Phenanthrene	10	1,000	25.800	6.740	0.380	<0.0658	36.400	1.500	9.350	21.500	<0.0667
Acenaphthylene	1	10	1.260	0.307	<0.0725	<0.0658	1.390	0.246	0.619	0.731	<0.0667
Fluorene	1,000	3,000	1.830	0.505	<0.0362	<0.0329	1.320	<0.0385	0.535	1.410	<0.0333
Anthracene	1,000	3,000	4.660	1.300	<0.0725	<0.0658	7.840	0.317	1.600	3.700	<0.0667
Fluoranthene	1,000	3,000	33.000	11.400	0.357	<0.263	64.700	3.170	20.700	33.600	<0.267
Pyrene	1,000	3,000	27.800	10.100	0.304	<0.263	59.500	2.950	18.300	33.300	<0.267
Benz[a]Anthracene	7	40	12.100	4.900	0.186	<0.132	**29.400**	1.310	**9.850**	**15.700**	<0.133
Chrysene	70	400	11.300	5.110	0.275	<0.132	26.000	1.460	9.870	16.400	<0.133
Benzo[b]Fluoranthene	7	40	<0.172	<0.183	<0.217	<0.197	<0.227	<0.231	<0.181	<0.185	<0.200
Benzo[k]Fluoranthene	70	400	<0.115	<0.122	<0.145	<0.132	<0.152	<0.154	<0.120	<0.123	<0.133
Benzo[a]Pyrene	2	4	<0.115	<0.122	<0.145	<0.132	<0.152	<0.154	<0.120	<0.123	<0.133
Indeno[1,2,3-c,d]Pyrene	7	40	<0.0575	<0.0610	<0.0725	<0.0658	<0.0758	<0.0769	<0.0602	<0.0617	<0.0667
Dibenzo[a,h]Anthracene	0.7	4	<0.115	<0.122	<0.145	<0.132	<0.152	<0.154	<0.120	<0.123	<0.133
Benzo[g,h,i]Perylene	1,000	3,000	<0.115	<0.122	<0.145	<0.132	<0.152	<0.154	<0.120	<0.123	<0.133
COAL ASH			NA	NA	COAL ASH	NA	NA	NA	NA	NA	NA

* Duplicate of CSS-2
ND - Non Detect
NA - Not Analyzed
NS - Not Specified
Bold indicates RCS2 threshold exceeded

Cygnus TP-1 through TP-8 were NA for EPH/PAH
RCs updated in Feb 2008

Table 1B
PCBs and Asbestos Containing Materials (ACM) Soil Data
16 Blackmer Street
New Bedford, MA
1999, 2000, and 2006
Concentration (mg/kg)

Sample location	South Area	North Area	North Area	South Area	South Area	South Area	South Area	South Area	North Area	North Area	North Area
SAMPLE IDENTIFICATION	**CGW1/S-3**	**BH1**	**BH-1**	**BH2**	**SS-04A**	**SS-04B**	**TP-03**	**TP-04**	**CSE TP-2**	**CSE TP-3**	**CSE TP-1**
SAMPLE DEPTH (FT)	**0-2**	**0-2.5**	**2.5-5**	**2.5-4**	**0-3**	**0-3**			**3-6**	**0-3**	**0-3**
COLLECTION DATE	**03/07/00**	**05/25/06**	**05/25/06**	**05/25/06**	**09/28/99**	**09/28/99**	**01/2000**	**01/2000**	**05/25/06**	**05/25/06**	**05/25/06**
ASBESTOS											
chrysotile	NA	NA	NA	<1%	NA	NA	NA	NA	ND	ND	ND
POLYCHLORINATED BIPHENYLS (PCBs)											
Aroclor 1221	ND	< .0575	< .0610	< .0658	ND	ND	DU	DU	< .0769	< .0602	< .0725
Aroclor 1232	ND	< .0575	< .0610	< .0658	ND	ND	DU	DU	< .0769	< .0602	< .0725
Aroclor 1248	ND	< .0575	< .0610	< .0658	ND	ND	DU	DU	< .0769	< .0602	< .0725
Aroclor 1254	ND	0.073	< .0610	0.105	ND	1.700	DU	capacitors observed	< .0769	0.439	< .0725
Aroclor 1260	ND	< .0575	< .0610	< .0658	ND	ND	DU	DU	< .0769	< .0602	< .0725
Aroclor 1262	ND	< .0575	< .0610	< .0658	ND	ND	DU	DU	< .0769	< .0602	< .0725
Aroclor 1268	ND	< .0575	< .0610	< .0658	ND	ND	DU	DU	< .0769	< .0602	< .0725

ND - Not Dectected by lab method
NA - Not Analyzed
NS - Not Specified
Bold indicates RCS2 threshold exceeded
DU - Data unknown/Unavailable - data tables missing from M&E and Cyngus reports but discussed in body of report.

Table 1C
Lead Soil Data
16 Blackmer Street
New Bedford, MA
1999, 2000, and 2006

Sample Identification Number	Sample Location	Sample Depth (ft)	Collection Date	Lead mg/kg
CSS-01	South Area	0-3	3/6/2000	260
CSS-1	South Area	3-6	3/6/2000	130
CSS-2	South Area	0-3	3/6/2000	**400**
CSS-500 (duplicate CSS-2)	South Area	0-3	3/6/2000	**620**
CSS-2	South Area	3-6	3/6/2000	210
CSS-500 (duplicate CSS-2)	South Area	3-6	3/6/2000	160
CSS-3	South Area	0-3	3/6/2000	**2500**
CSS-3	South Area	3-6	3/6/2000	160
CSS-4	South Area	0-3	3/6/2000	**530**
CSS-4	South Area	3-6	3/6/2000	190
CSS-5	South Area	0-3	3/6/2000	**310**
CSS-5	South Area	3-6	3/6/2000	150
CGW-1/S-3	South Area	0-2	3/7/2000	**490**
TP-1	North Area	0-3	5/9/2000	190
TP-2	North Area	0-3	5/9/2000	140
TP-3	North Area	0-3	5/9/2000	180
TP-4	North Area	0-3	5/9/2000	61
TP-5	South Area	0-3	5/9/2000	100
TP-X (TP5 duplicate)	South Area	0-3	5/9/2000	220
TP-6	South Area	0-3	5/9/2000	**930**
TP-7	North Area	0-3	5/9/2000	63
TP-8	South Area	0-3	5/9/2000	250
BH1	North Area	0-2.5	5/28/2006	111
BH1	North Area	2.5-5	5/28/2006	287
Duplicate 1 (BH1 2.5-5)	North Area	2.5-5	5/28/2006	194
BH1	North Area	5-7.5	5/28/2006	5.25
BH2	South Area	0-2.5	5/28/2006	**313**
BH2	South Area	2.5-4	5/28/2006	**339**
Duplicate 2 (BH2 2.5-4)	South Area	2.5-5	5/28/2006	**371**
BH2	South Area	4-6.5	5/28/2006	**5780**
SS-04A	South Area	0-3	9/28/99	**3640**
SS-04B	South Area	0-3	9/28/99	**379**
CSE/TP-1	North Area	0-3	5/28/2006	42.1
CSE/TP-1	North Area	3-6	5/28/2006	5.7
CSE/TP-2	North Area	0-3	5/28/2006	77.9
CSE/TP-2	North Area	3-6	5/28/2006	6.65
CSE/TP-3	North Area	0-3	5/28/2006	256
CSE/TP-3	North Area	3-6	5/28/2006	25.9
BH-6A	South Adjacent Lot	2.5-6	6/12/2006	**550**
BH-6B	South Adjacent Lot	2.5-6	6/12/2006	209
BH-6C	South Adjacent Lot	2.5-6	6/12/2006	**1380**
BH-6D	South Adjacent Lot	2.5-6	6/12/2006	**611**

Upper Concentration Limit (Method 3)	3000
Reportable Concentration S1	300
Reportable Concentration S2	300
MCP Background - urban fill	600

- undefined in MCP

Bold indicates RC threshold has been exceeded

Underline indicates sample was non-detect and value is half method reporting limit.

Table 2
EPH/PAHs/PCBs and Lead in Groundwater Data
16 Blackmer Street
New Bedford, MA
2000 and 2006

	North Area	Destroyed South Area	South Area		Destroyed South Area					
						Reportable Concentration		Method 1 Groundwater Standards		
SAMPLE NUMBER: COLLECTION DATE:	**CSE-2 5/28/2006**	**CSE-1 5/28/2006**	**CSE-3 5/28/2006**	**GW-01** 9/30/99**	**CGW-1 3/10/2000**	**GW-1 (ug/L)**	**GW-2 (ug/L)**	**GW-1 (ug/L)**	**GW-2 (ug/L)**	**GW-3 (ug/L)**
FULL EPH ANALYTICAL RESULTS (ug/L)										
2-Methylnaphthalene	<1.20	<1	<1.14	14.00	ND	10	3000	10	10000	3000
Acenaphthene	<1.20	<1	<1.14	ND	ND	20	5000	20	NA	5000
Acenaphthylene	<1.20	<1	<1.14	ND	ND	300	3000	300	NA	3000
Anthracene	<1.20	<1	<1.14	ND	ND	600	600	2000	NA	3000
Benz[a]Anthracene	<1.20	<1	<1.14	ND	ND	1	3000	1	NA	1000
Benzo[a]Pyrene	<0.0964	<1.5	<0.0909	ND	ND	0.2	3000	0.2	NA	500
Benzo[b]Fluoranthene	<1.20	<1	<1.14	ND	ND	1	3000	1	NA	400
Benzo[g,h,i]Perylene	<1.81	<1.5	<1.70	ND	ND	300	3000	300	NA	3000
Benzo[k]Fluoranthene	<0.145	<0.120	<0.136	ND	ND	0.1	3000	1	NA	100
Chrysene	<1.20	<1	<1.14	ND	ND	2	3000	2	NA	3000
Dibenzo[a,h]Anthracene	<0.602	<0.500	<0.568	ND	ND	0.5	3000	1	20	50000
Fluoranthene	<1.20	<1	<1.14	ND	ND	200	200	90	NA	200
Fluorene	<1.20	<1	<1.14	ND	ND	300	3000	300	NA	3000
Indeno[1,2,3-c,d]Pyrene	<1.20	<0.240	<0.273	ND	ND	0.5	3000	0.5	NA	100
Naphthalene	<1.20	<1	<1.14	8.1	ND	20	6000	140	1000	20000
Phenanthrene	<1.20	<1	<1.14	ND	ND	50	50	300	NA	50
Pyrene	<1.81	<1.5	<1.7	ND	ND	200	3000	80	NA	20
C9-C18 Aliphatic Hydrocarbons1	<120	<100	<114	ND	ND	1000	1000	4000	1000	20000
C19-C36 Aliphatic Hydrocarbons1	<120	<100	<114	ND	ND	5000	20000	5000	NA	20000
C11-C22 Aromatic Hydrocarbons1,2	<120	<100	<114	ND	ND	200	30000	200	50000	30000
POLYCHLORINATED BIPHENYLS										
Aroclor 1016/1242	<0.375	<0.303	<0.366	ND	ND	70	50000	0.5	NA	0.3
Aroclor 1221	<0.375	<0.303	<0.366	ND	ND	5	2000	0.5	NA	0.3
Aroclor 1232	<0.375	<0.303	<0.366	ND	ND	1000	6000	0.5	NA	0.3
Aroclor 1248	<0.375	<0.303	<0.366	ND	ND	700	4000	0.5	NA	0.3
Aroclor 1254*	**0.871**	**0.72**	**0.83**	**2.6**	ND	6000	6000	0.5	NA	0.3
Aroclor 1260	<0.375	<0.303	<0.366	ND	ND	6000	6000	0.5	NA	0.3
Aroclor 1262	<0.375	<0.303	<0.366	ND	ND	20	6000	0.5	NA	0.3
Aroclor 1268	<0.375	<0.303	<0.366	ND	ND	400	1000	0.5	NA	0.3
DISSOLVED LEAD	<0.0150	<0.0150	<0.0150	ND	NA	1000	1000	15	NA	10

* sample was not filtered prior to lab analysis

** Pesticides detected in sample at concentrations less than the RCGW-2 standards.

- undefined in MCP

Bold italics indicates RC threshold has been exceeded

Bold indicate laboratory method reporting limit exceeded

NA - Not Applicable

Appendix A Historic Report Excerpts

Metcalf & Eddy, Inc.
Engineers

Excavation Profile Log

M&E

PROJECT: STANDARD TIMES 9/27/99		SHEET: 1 OF 1	TEST PIT NO.: TP-03
SITE LOCATION: NEW BEDFORD	JOB NO.: 020655-0002		
	GRID LOCATION: LOT 3, NEAR STRESSED VEGETATION	GROUND ELEV.: —	TOTAL DEPTH:
CONTRACTOR: MHE / CITY	ENG/GEO: N. THUMBER		BEGUN: 10:45
EQUIPMENT: BACKHOE	OPERATOR: CITY (FRANK)		FINISHED: 11:00
PIT/TRENCH DIMENSIONS: 6 X 4 X 5 ft depth	WEATHER: CLEAR, 70°		GROUNDWATER (DEPTH): 4 ft
SAMPLING METHOD: NONE	DECON. USED: DRY BRUSH, SOAP + WATER SPRAY		TOP OF ROCK (DEPTH): —

TEST PIT EXCAVATION PROFILE: SCALE: 1 sq = 1/2 ft²

0' NO VEGETATION / SANDY

1 ft	SANDY LOAM, SOME DEBRIS - BRICK, WOOD, ROOFING
2 ft	
3 ft	MEDIUM GRADED SAND - WOOD + BRICK DEBRIS
4 ft	
5 ft	(* WOOD PLANKS FOUND 4-5 FEET)

← GROUNDWATER @ 4 ft

LOCATION OF TEST PITS: THIS TEST PIT WAS LOCATED IN AREA OF STRESSED VEGETATION ON EASTERN BOUNDARY OF THE SITE.

SAMPLE COORDINATES:

PROJECT: STANDARD TIMES 9/27/99		SHEET: 1 OF 1	TEST PIT NO. TP-04
SITE LOCATION: NEW BEDFORD	JOB NO.: 020655-002		
	GRID LOCATION: LOT 3	GROUND ELEV.: —	TOTAL DEPTH: 5 ft
CONTRACTOR: MHE / CITY	ENG/GEO: N. THUNBER		BEGUN: 11:00
EQUIPMENT: BACKHOE	OPERATOR: CITY (FRANK)		FINISHED: 11:15
PIT/TRENCH DIMENSIONS: ~~4x~~ 6x4x5 ft depth	WEATHER: CLEAR, 70°F		GROUNDWATER (DEPTH) 4 ft
SAMPLING METHOD: NONE	DECON. USED: DRY BRUSH, SOAP + WATER SPRAY		TOP OF ROCK (DEPTH) —

TEST PIT EXCAVATION PROFILE: SCALE: 1 square = 1 ft

NO VEGETATION AT SURFACE

1 ft	SANDY LOAM W/ SOME DEBRIS, MOSTLY BRICK	
2 ft		
3 ft	DEFINED LAYER OF BRICK BETWEEN 2 & 3 FEET	
4 ft		← GROUNDWATER @ 4 ft
5 ft	SANDY MATERIAL W/ DEBRIS (SIMILAR)	* A SULFUR-LIKE ODOR WAS DETECTED AT 4 ft

LOCATION OF TEST PITS: NEAR EASTERN BOUNDARY WITHIN AREA OF STRESSED VEGETATION — 10 ft FROM TP-03

SAMPLE COORDINATES:

Appendix C

Appendix D

TEMPORARY WELL/PIEZOMETER GEOLOGIC AND INSTALLATION LOG

METCALF & EDDY, INC.	SITE LOCATION	BORING/WELL ID
30 Harvard Mill Square Wakefield, MA 01880 (617) 246-5200	Standard Times Field New Bedford, MA	CW-01

DRILL CONTRACTOR: GeoTek
DRILLER: Joe Bell
ENG/GEO: M. Gallagher
START DATE: 9/29/99
FINISH DATE: 9/29/99
~~SAMPLING~~ DVPMT METHOD: Peristaltic/low flow

DRILLING METHOD: Direct-push
DRILL RIG: Earth Probe 2000
SAMPLING METHOD: NA
PIPE MATERIAL: Sch 40 PVC
PIPE SIZE: 1" OD
SCREEN LENGTH: 7ft
DRILLING FLUID: NA
Riser: Flush mounted

PAGE 1 of 1

Depth	Sample No./ Interval	Blow Cnts (per 6")	Well/ Screen Install	Rec. Length (inches)	PID (ppm)	Water Table	Field Classification	Stratigraphic Description
0 ft	NA	NA		NA			PID - ϕ HOLE	
						▽ 2.98 ft	- ϕ Breathing Zone NA	
5 ft								
			screen bottom					
10 ft			7 ft					
15 ft								
20 ft								
25 ft								
30 ft								
35 ft								

TABLE 3-3. TEMPORARY WELL LOCATION SELECTION RATIONALE - STANDARD TIMES FIELD, FALL 1999 BTSA

Lot No.	Location ID	Rationale for Location Selection
1B	GW-04	• located in the hydrogeologically-inferred downgradient direction of Mutual Oil Station • attempts to locate further northwest failed because of shallow refusal depths encountered (2 to 3 feet)
3	GW-01	• located within area of bare soil and stressed vegetation • attempts to locate further northeast failed because of difficult terrain and shallow refusal depths
7	GW-02	• located hydrogeologically-inferred downgradient direction of buried concrete structure (assumed to be 150,000-gallon buried tank)
3	GW-03	• located hydrogeologically-inferred downgradient direction of Lisbon Auto Repair Shop

TABLE 3-4. GROUNDWATER ELEVATION MEASUREMENTS

Lot No.	Location ID	Depth groundwater (ft bgs)	Relative Elevation* (feet)
1B	GW-04	6.15	7.21
3	GW-01	3.14	6.86
	GW-03	7.31	7.89
7	GW-02	5.90	7.10

*Top of well elevation is relative to an on-site reference point
ft bgs - feet below ground surface

TABLE 3-1. SURFACE SOIL LOCATION SELECTION RATIONALE – STANDARD TIMES FIELD, FALL 1999 BTSA

Lot No.	Location ID	Rationale for Location Selection	Physical Description of Hole/Soil Sample
1B	SS-02	• most upgradient location for entire site (assumed groundwater flow direction) • possible impact area from off-site sources (Mutual Oil Station); no visual evidence of potential contaminant areas observed	• 0 to 1½ feet, dark loam • 1½ to 2 feet, sandy gravel • 2 to 3 feet, medium graded sand
2	SS-03	• located within estimated area of former coal bin	• 0 to ½ feet, sandy loam • ½ to 1 feet, clay with gravel • 1 to 1½ feet, sand with coal fragments over a layer of cobbles (possible road or foundation) • 1½ to 2 feet, sand • 2 to 3 feet, dark, dense sand with clay
3	SS-04A	• arbitrary location; no visual evidence of potential contaminant areas observed	• 0 to ½ feet, sandy loam • ½ to 3 feet, dense sand with gravel • 3 feet, dark dense clay layer (6 inches thick) • 3 to 4 feet, dense sandy clay below the clay layer
	SS-04B	• located within area of stressed vegetation, bare soil, capacitor debris, and coal ash	• 0 to 1 feet, sandy loam • 1 to 2 feet, sand • 2 to 2½ feet, layer of bricks • 2½ to 3 feet, dark, poorly graded sand and some coal ash with a sweet odor • cobbles and debris (brick and wood) were mixed throughout each layer
4	SS-05A	• arbitrary location; no visual evidence of potential contaminant areas observed	• 0 to 3 feet, loam with some sand, small quantity of bricks, wetland plant roots evident • 3 to 4 feet, greyish, dense sand
	SS-05B	• location within area of burned vegetation and debris including automotive/boat fuel tanks, tires, and glass fragments	• 0 to ½ feet, sandy loam • ½ to 3 feet, sandy clay with cobbles and some brick debris • 3 feet, dense sand layer
5	SS-06	• arbitrary location, placed; no visual evidence of potential contaminant areas observed	• 0 to 1 feet, dark sandy loam • 1 to 3 feet, dense sand with cobbles (some greyish sand mixed in)
6	SS-07	• arbitrary location; no visual evidence of potential contaminant areas observed	• 0 to 2 feet, fine sand with loam • 2 to 3 feet, sandy clay • 3 feet, ledge or boulder
7	SS-08	• arbitrary location, placed downgradient of suspected UST	• 0 to 1½ feet, loamy sand • 1.5 to 3 feet, poorly graded sand (beach sand)
8	SS-09	• arbitrary location; no visual evidence of potential contaminant areas observed	• 0 to 2 feet, sandy clay • 2 to 3 feet, dark, dense clay
9	SS-10	• arbitrary location, placed downgradient of auto body shop	• 0 to 1 feet, loamy sand • 1 to 3 feet, medium graded sand, some gravel

TABLE 4-1. SUMMARY OF ANALYTICAL DATA – SURFACE SOILS *
BTSA INVESTIGATION – STANDARD TIMES FIELD – FALL 1999

LOT NUMBER	1B	8		9		2	3		4		
LOCATION NAME	SS-02	SS-09		SS-10		SS-03	SS-04A	SS-04B	SS-05A	SS-05B	
SAMPLE DEPTH (ft bgs)	0.0 - 3.0	0.0 - 3.0		0.0 - 3.0	Reportable	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	Reportable
M&E SAMPLE ID	SS0201STF	SS0901STF	SSK0901STF	SS1001STF	Concentrations	SS0301STF	SS0401STF	SS0402STF	SS0501STF	SS0502STF	Concentrations
DATE SAMPLED	09/28/99	09/28/99	09/28/99	09/28/99	**	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	**
COMMENTS			FD		RCS-1						RCS-2
PARAMETER/ANALYTE											
VOLATILE PETROLEUM HYDROCARBONS - MADEP-VPH-98-1 (µg/kg)											
None Detected											
EXTRACTABLE PETROLEUM HYDROCARBONS - MADEP-EPH-98-1 (µg/kg)											
C_9-C_{18} Aliphatics (1)	3,200 U	3,100 U	3,200 U	2,900 U	1,000,000	3,500 U	3,200	3,400 U	3,300 U	3,400 U	2,500,000
C_{19}-C_{36} Aliphatics (1)	4,200 U	4,200 U	4,200 U	3,900 U	2,500,000	4,600 U	50,000	19,000	32,000	19,000	5,000,000
C_{11}-C_{22} Aromatics (1,2)	9,000 U	8,900 U	9,000 U	8,300 U	200,000	23,000	180,000	120,000	290,000	75,000	2,000,000
Naphthalene	530 U	520 U	530 U	490 U	4,000	580 U	520 U	570 U	1,300	570 U	1,000,000
2-Methylnapthalene	530 U	520 U	530 U	490 U	4,000	580 U	520 U	570 U	720	570 U	1,000,000
Acenaphthylene	530 U	520 U	530 U	490 U	100,000	580 U	520 U	570 U	1,100	570 U	1,000,000
Acenaphthene	530 U	520 U	530 U	490 U	20,000	580 U	520 U	570 U	2,000	570 U	2,500,000
Fluorene	530 U	520 U	530 U	490 U	400,000	580 U	570	570 U	2,600	570 U	2,000,000
Phenanthene	530 U	520 U	530 U	490 U	100,000	1,500	7,800	6,800	20,000	1,500	100,000
Anthracene	530 U	520 U	530 U	490 U	1,000,000	580 U	2,100	1,600	4,000	570 U	1,000,000
Fluoranthene	530 U	520 U	530 U	490 U	1,000,000	1,600	16,000	13,000	24,000	3,000	1,000,000
Pyrene	530 U	520 U	530 U	490 U	700,000	1,500	17,000	13,000	28,000	3,900	2,000,000
Benzo(a)anthracene	530 U	520 U	530 U	490 U	700	780	**8,600**	**6,000**	**12,000**	**2,000**	1,000
Chrysene	530 U	520 U	530 U	490 U	7,000	850	7,400	5,200	**12,000**	2,000	10,000
Benzo(b)fluoranthene	530 U	520 U	530 U	490 U	700	580	**7,700**	**5,700**	**9,300**	**2,100**	1,000
Benzo(k)fluoranthene	530 U	520 U	530 U	490 U	7,000	770	4,600	5,300	8,700	1,800	10,000
Benzo(a)pyrene	530 U	520 U	530 U	490 U	700	**770**	**8,200**	**5,800**	**11,000**	**2,200**	700
Indeno(1,2,3-cd)pyrene (3)	530 U	520 U	530 U	490 U	700	820	**7,500**	**7,000**	**10,000**	**2,500**	1,000
Dibenzo(a,h)anthracene (3)	530 U	520 U	530 U	490 U	700	**820**	**7,500**	**7,000**	**10,000**	**2,500**	700
Benzo(g,h,I)perylene	530 U	520 U	530 U	490 U	1,000,000	580 U	5,300	5,000	7,400	2,000	2,500,000
SEMIVOLATILE ORGANIC COMPOUNDS - RAS (µg/kg)											
Naphthalene	360 U	350 U	340 U	18 J	4,000	140 J	450 J	510 J	1,300 J	430 J	1,000,000
2-Methylnaphthalene	360 UJ	350 UJ	340 UJ	340 UJ	4,000	49 J	440 J	250 J	480 J	3,800 UJ	1,000,000
Acenaphthylene	29 J	350 U	340 U	340 U	100,000	59 J	1,200 J	700 J	1,700 J	1,400 J	1,000,000
Acenaphthene	28 J	350 U	340 U	340 U	20,000	140 J	470 J	1,200 J	2,100 J	640 J	2,500,000
Dibenzofuran	19 J	350 U	340 U	340 U	100,000	110 J	370 J	710 J	1,600 J	410 J	1,000,000
Fluorene	27 J	350 U	340 U	340 U	400,000	140 J	1,600 J	1,400 J	2,200 J	820 J	2,000,000
Phenanthrene	360	22 J	27 J	84 J	100,000	1,100	11,000	14,000	18,000	7,000	100,000
Anthracene	83 J	350 U	340 U	25 J	1,000,000	250 J	3,300	4,200	5,600	2,200 J	1,000,000
Carbazole	42 J	350 U	340 U	340 U	–	150 J	770 J	2,000 J	2,400 J	670 J	–
Fluoranthene	650	41 J	72 J	170 J	1,000,000	1,400	14,000	21,000	24,000	12,000	1,000,000
Pyrene	530	35 J	60 J	140 J	700,000	1,100	20,000	19,000	22,000	12,000	2,000,000
Benzo(a)anthracene	290 J	23 J	37 J	91 J	700	640	**8,900**	**10,000**	**14,000**	**6,200**	1,000
Chrysene	320 J	27 J	35 J	96 J	7,000	700	8,400	9,900	**14,000**	6,600	10,000
Benzo(b)fluoranthene	250 J	21 J	33 J	76 J	700	580	**7,700**	**9,100**	**12,000**	**5,300**	1,000
Benzo(k)fluoranthene	340 J	25 J	33 J	92 J	7,000	620	5,000	**11,000**	**11,000**	6,100	10,000
Benzo(a)pyrene	310 J	21 J	36 J	92 J	700	650	**7,800**	**11,000**	**14,000**	**7,100**	700

TABLE 4-1. SUMMARY OF ANALYTICAL DATA -- SURFACE SOILS *
BTSA INVESTIGATION -- STANDARD TIMES FIELD -- FALL 1999

LOT NUMBER	1B	8		9		2	3		4		
LOCATION NAME	SS-02	SS-09		SS-10		SS-03	SS-04A	SS-04B	SS-05A	SS-05B	
SAMPLE DEPTH (ft bgs)	0.0 - 3.0	0.0 - 3.0		0.0 - 3.0	Reportable	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	Reportable
M&E SAMPLE ID	SS0201STF	SS0901STF	SSK0901STF	SS1001STF	Concentrations	SS0301STF	SS0401STF	SS0402STF	SS0501STF	SS0502STF	Concentrations
DATE SAMPLED	09/28/99	09/28/99	09/28/99	09/28/99	**	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	**
COMMENTS			FD		RCS-1						RCS-2
Indeno(1,2,3-cd)pyrene	190 J	350 U	22 J	59 J	700	**370 J**	**4,200**	**7,400**	**7,900**	**4,300**	700
Dibenz(a,h)anthracene	65 J	350 U	340 U	28 J	700	190 J	**2,100**	**2,500 J**	**3,200 J**	**1,500 J**	700
Benzo(g,h,i)perylene	190 J	19 J	24 J	66 J	1,000,000	400	4,700	8,300	9,100	5,300	2,500,000
PESTICIDES - RAS (µg/Kg)											
beta-BHC	3.9 J	1.8 UJ	1.8 UJ	1.7 UJ	10,000	1.9 UJ	R	R	2.0 UJ	2.0 UJ	100,000
Heptachlor	R	0.29 J	0.62 J	0.69 J	100	1.9 U	1.8 U	1.9 U	2.0 U	2.0 U	200
4,4'-DDE	20 J	3.4 U	3.5 U	3.3 U	2,000	3.7 U	R	82 J	R	R	2,000
Endrin	R	3.4 UJ	3.5 UJ	3.3 UJ	600	7.7 J	R	3.7 UJ	R	3.8 UJ	50
Endosulfan II	4.0 J	3.4 U	3.5 U	3.3 U	50	3.7 U	3.6 J	3.7 U	3.8 U	3.8 U	50
4,4'-DDD	3.4 U	3.4 U	3.5 U	3.3 U	2,000	R	R	3.7 U	3.8 U	73 J	3,000
Endosulfan sulfate (4)	13 J	3.4 U	3.5 U	3.3 U	50	R	R	22 J	12 J	8.0 J	50
4,4'-DDT	75	6.7 J	4.4 J	4.7 J	2000	11 J	R	300 J	R	R	2,000
Methoxychlor	40	18 UJ	18 UJ	17 UJ	30,000	53 J	18 UJ	180 J	R	R	30,000
Endrin ketone (5)	3.4 U	3.4 U	3.5 U	3.3 U	600	17 J	47 J	60 J	56 J	R	1,000
Endrin aldehyde	R	3.4 U	3.5 U	3.3 U	10,000	7.0 J	5.5 J	R	50 J	12 J	100,000
alpha-Chlordane	8.6 J	1.8 U	1.8 U	1.7 U	1,000	1.9 U	1.80 U	R	2.0 U	2.0 U	2,000
gamma-Chlordane	R	1.8 U	1.8 U	1.7 U	1,000	1.9 U	2.6 J	R	R	3.7 J	2,000
PCBS - RAS (µg/kg)											
Aroclor-1254	380 J	41	37	33 U	2,000	37 U	36 U	1,700 J	38 U	38 U	2,000
METALS - RAS (mg/kg)											
Aluminum	5,110	3,390	3,070	2,020	--	3,860	3,720	3,950	3,680	3,880	--
Antimony	0.48 J	0.49 UJ	0.47 UJ	0.46 UJ	10	0.51 UJ	21.4 J	0.54 UJ	0.49 UJ	0.52 UJ	40
Arsenic	1.3	1.7	1.6	1.0	30	14.3	5.5	14.7	7.1	6.6	30
Barium	18.3	8.1	7.1	10.4	1,000	55.1	165	125	86.8	28.9	2,500
Beryllium	0.02 U	0.04 U	0.06 U	0.04 U	1	0.12 U	0.11 U	0.59	0.11 U	0.09 U	0.8
Cadmium	0.09 U	0.09 U	0.09 U	0.08 U	30	0.09 U	1.9	0.34 U	0.09 U	0.09 U	80
Calcium	559	556	497	966	--	737	4,900	6,110	1,400	1,500	--
Chromium	4.4	7.1	6.2	3.8	1,000	4.5	9.1	5.7	9.1	8.5	2,500
Cobalt	1.5	1.8	1.5	1.2	500	2.7	3.5	3.5	3.1	2.3	5,000
Copper	4.7	7.3	5.2	6.7	1,000	16.5	47.7	57.5	32.8	28.5	10,000
Iron	5,770	6,370	5,600	3,400	--	9,730	17,400	10,700	16,600	12,400	--
Lead	30.0 J	5.4 J	5.1 J	13.4 J	300	105 J	**3,640 J**	379 J	151 J	99.7 J	600
Magnesium	834	1,260	1,100	858	--	929	1,290	1,880	1,280	943	--
Manganese	91.8	65.9	61.4	51.8	--	65.9	141	122	121	85.7	--
Mercury	0.06 UJ	0.06 UJ	0.05 UJ	0.05 UJ	20	0.05 UJ	0.07 UJ	0.27 J	0.41 J	0.08 UJ	60
Nickel	2.8	3.8	3.2	3.0	300	5.1	7.6	8.0	8.0	5.5	700
Potassium	253	556	442	256	--	985	324	480	433	308	--
Selenium	0.39 U	0.55 U	0.39 U	0.39 U	400	1.7 U	0.96 U	2.8	1.1 U	1.1 U	2,500
Silver	0.13 U	0.13 U	0.09 U	0.08 U	100	0.23 U	0.82	0.15 U	0.31 U	0.23 U	200
Sodium	94.0	132	98.2	117	--	255	129	305	132	114	--
Vanadium	8.6	10.1	8.5	4.9	400	9.2	11.7	14.9	22.8	11.5	2,000
Zinc	20.0	14.4	13.1	13.2	2,500	58.9	327	142	85.1	55.8	2,500

TABLE 4-1. SUMMARY OF ANALYTICAL DATA -- SURFACE SOILS *
BTSA INVESTIGATION -- STANDARD TIMES FIELD -- FALL 1999

LOT NUMBER	1B	8		9		2	3		4		
LOCATION NAME	SS-02	SS-09		SS-10		SS-03	SS-04A	SS-04B	SS-05A	SS-05B	
SAMPLE DEPTH (ft bgs)	0.0 - 3.0	0.0 - 3.0		0.0 - 3.0	Reportable	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	Reportable
M&E SAMPLE ID	SS0201STF	SS0901STF	SSK0901STF	SS1001STF	Concentrations	SS0301STF	SS0401STF	SS0402STF	SS0501STF	SS0502STF	Concentrations
DATE SAMPLED	09/28/99	09/28/99	09/28/99	09/28/99	**	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	**
COMMENTS			FD		RCS-1						RCS-2
INORGANICS - RAS (mg/kg)											
None Detected											
LAB SAMPLE ID											
Volatile Petroleum Hydrocarbons	43026-12	43026-9	43026-10	43026-11		43026-1	43026-2	43026-3	43026-4	43026-5	
Extractable Petroleum Hydrocarbons	43026-12	43026-9	43026-10	43026-11		43026-1	43026-2	43026-3	43026-4	43026-5	
Semivolatile Organic Compounds	APF79	APF88	APF89	APF90		APF80	APF81	APF82	APF83	APF84	
Pesticides/PCBs	APF79	APF88	APF89	APF90		APF80	APF81	APF82	APF83	APF84	
Inorganics (Metals/Cyanide)	MALP88	MALP97	MALP98	MALP99		MALP89	MALP90	MALP91	MALP92	MALP93	

TABLE 4-2. SUMMARY OF ANALYTICAL DATA -- GROUNDWATER *
BTSA INVESTIGATION -- STANDARD TIMES FIELD -- FALL 1999

LOT NUMBER	1B		3	7		9	
LOCATION NAME	GW-04 ***		GW-01	GW-02 ***		GW-03	
SAMPLE DEPTH (ft bgs) **	0-10 / 3-8.5		0-7	0-10 / 3-8		1-11	
M&E SAMPLE ID	GW0201STF & GW-02RE	GWK-02RE	FGW0401STF	FGW0801STF & GW-08RE	GWK0801STF	GW1001STF	Reportable Concentrations ****
DATE SAMPLED	/30&11/02/99	11/02/99	09/30/99	9/30&11/02/99	09/30/99	09/30/99	
COMMENTS		FD			FD		RCGW-2
PARAMETER/ANALYTE							
VOLATILE PETROLEUM HYDROCARBONS - MADEP-VPH-98-1 (µg/l)							
C_9-C_{12} Aliphatics (1,2)	100 U	100 U	120	100 U		100 U	1,000
Toluene	15 U	15 U	15 U	15 U		190	6,000
EXTRACTABLE PETROLEUM HYDROCARBONS - MADEP-EPH-98-1 (µg/l)							
C_{19}-C_{36} Aliphatics (1)	50 U	48 U	41 U	150		41 U	20,000
C_{11}-C_{22} Aromatics (1,3)	110 U	100 U	220 J	110 U		87 U	30,000
Naphthalene	6.2 U	6.0 U	8.1 J	6.2 U		5.1 U	6,000
2-Methylnapthalene	6.2 U	6.0 U	14 J	6.2 U		5.1 U	3,000
PESTICIDES - RAS (µg/l)							
alpha-BHC	0.050 U	0.050 U	0.26	0.050 U		(5)	5,000
Heptachlor	0.031 J	0.021 J	0.059 J	0.050 U		(5)	1
4,4'-DDE	0.10 U	0.10 U	0.16	0.10 U		(5)	100
4,4'-DDT	0.10 U	0.10 U	0.15 J	0.10 U		(5)	0.3
gamma-Chlordane	0.050 U	0.050 U	0.050 U	0.023 J		(5)	2
PCBS - RAS (µg/l)							
Aroclor-1254	1.0 U	1.0 U	**2.6 J**	1.0 U		(5)	0.3
METALS - RAS (µg/l) (4)							
Aluminum	66.7 U		98.4 U	51.4 U	46.3 U	2,530	--
Antimony	2.2 UJ		2.2 UJ	2.2 UJ	2.2 UJ	**352 J**	300
Arsenic	2.1 U		2.8 U	3.8 U	2.9 U	46.1	400
Barium	40.4		756	10.4 U	9.3 U	2,830	30,000
Beryllium	0.10 U		0.20 U	0.10 U	0.10 U	47.3	50
Cadmium	0.40 U		2.4	0.40 U	0.40 U	**53.0**	10
Calcium	56,000		508,000	88,700	86,500	494,000	--
Chromium	0.70		0.30 U	0.30 U	0.30 U	196	2,000
Cobalt	0.60 U		0.60 U	0.80 B	0.70	505	--
Copper	2.0 U		R	2.0 U	2.0 U	293	100,000
Iron	6,650		2,770	1,410	1,450	3,650	--
Lead	1.0 U		1.0 U	1.0 U	1.0 U	18.6	30
Magnesium	8,650		312,000	22,100	20,800	304,000	--
Manganese	373		550	940	878	1,030	--
Nickel	0.80 J		0.70 U	1.4 J	1.4 J	**522**	80
Potassium	6,360		120,000	18,100	16700	117,000	--
Selenium	1.8 U		1.8 U	1.8 U	1.8 U	9.8	80
Silver	0.40 U		0.40 UJ	0.40 U	0.40 U	**58.8**	7
Sodium	8,940		2,310,000	63,200	58,700	2,220,000	--
Thallium	2.0 U		2.0 U	2.3	2.0 U	50.1	400
Vanadium	0.90		0.80 UJ	0.80 U	0.80 U	503	2,000
Zinc	16.3 U		16.3 U	16.3 U	16.3 U	480	900
INORGANICS - RAS (µg/l)							
Cyanide	**11.1 J**		0.90 UJ	0.93 J	0.90 UJ	(5)	10
LAB SAMPLE ID							
Volatile Petroleum Hydrocarbons	43199-2	43199-3	43032-2	43199-4		43032-3	
Extractable Petroleum Hydrocarbons	43199-2	43199-3	43032-2	43199-4		43032-3	
Pesticides/PCBs	AQL49	AQL50	APG52	AQL51			
Inorganics (Metals/Cyanide)	MALQ07		MALQ02	MALQ04	MALQ06	MALQ03	

CYGNUS GROUP INCORPORATED

BORING LOG

Project:	New Bedford Brownfields	Boring No.:	CSS-6
Location:	Standard Times Field	Page:	6 of 10
Drilling Contractor:	Soil Exploration	Date Started:	3/7/00
Inspected by:	Oliver Leek	Dated Finished:	3/7/00

Well Depth:	Length of Riser:	Length of Screen:	Screen I.D.:	Riser I.D.:

	Casing	Sampler	Bit
Type	Hydraulic Push	Push	
Size I.D.	2"	2"	
Hammer WT.			
Hammer Fall			

Groundwater Observations		
Depth	Date	Stabilization Time

Depth (ft.)	Sample ID	Blows/ 6"	Sample Interval	Adv./ Rec.	PID (PPMV)	Strata Change	Field Classification Surface: Fill
0							
	0'-3'		0'-3'	36/30	0		Fill, Dark brown, fine to coarse sand with debris and gravel throughout
5							
	3'-6'		3'-6'	36/28	0.2		Fill, Dark brown, fine to coarse sand with gravel and debris, saturated
10							
15							
20							

REMARKS: 1)

CYGNUS GROUP INCORPORATED

BORING LOG

Project:	New Bedford Brownfields	Boring No.:	CSS-8
Location:	Standard Times Field	Page:	8 of 10
Drilling Contractor:	Soil Exploration	Date Started:	3/7/00
Inspected by:	Oliver Leek	Dated Finished:	3/7/00

Well Depth:	Length of Riser:	Length of Screen:	Screen I.D.:	Riser I.D.:

	Casing	Sampler	Bit
Type	Hydraulic Push	Push	
Size I.D.	2"	2"	
Hammer WT.			
Hammer Fall			

Groundwater Observations		
Depth	Date	Stabilization Time

Depth (ft.)	Sample ID	Blows/ 6"	Sample Interval	Adv./ Rec.	PID (PPMV)	Strata Change	Field Classification Surface: Fill
0							
	0'-3'		0'-3'	36/30	0.2		Fill, Dark brown, fine to coarse sand with debris and gravel throughout
5							
	3'-6'		3'-6'	36/28	0.2		Fill, Dark brown, fine to coarse sand with debris and gravel throughout
10							
15							
20							

REMARKS: 1)

CYGNUS GROUP INCORPORATED

BORING LOG

Project:	New Bedford Brownfields	Boring No.:	CSS-9
Location:	Standard Times Field	Page:	9 of 10
Drilling Contractor:	Soil Exploration	Date Started:	3/7/00
Inspected by:	Oliver Leek	Dated Finished:	3/7/00

Well Depth:	Length of Riser:	Length of Screen:	Screen I.D.:	Riser I.D.:

	Casing	Sampler	Bit
Type	Hydraulic Push	Push	
Size I.D.	2"	2"	
Hammer WT.			
Hammer Fall			

Groundwater Observations		
Depth	Date	Stabilization Time

Depth (ft.)	Sample ID	Blows/ 6"	Sample Interval	Adv./ Rec.	PID (PPMV)	Strata Change	Field Classification Surface: Fill
0							
	0'-3'		0'-3'	36/30	0.4		Fill, Dark brown, fine to coarse sand with brick and gravel throughout
5							
	3'-6'		3'-6'	36/28	0.2		Fill, Dark brown, fine to coarse sand with debris and gravel throughout
10							
15							
20							

REMARKS: 1)

Appendix B Boring Logs

CYGNUS GROUP INCORPORATED

BORING LOG

Project:	New Bedford Brownfields	Boring No.:	CGW-1
Location:	Standard Times Field	Page:	1 of 3
Drilling Contractor:	Soil Exploration	Date Started:	3/7/00
Inspected by:	Oliver Leek	Dated Finished:	3/7/00

Well Depth:	Length of Riser:	Length of Screen:	Screen I.D.:	Riser I.D.:
12′	2′	10′	2″	2″

	Casing	Sampler	Bit
Type	Hollow Stem Auger	Split Spoon	
Size I.D.	4-1/4″	2″	
Hammer WT.		140	
Hammer Fall		30″	

Groundwater Observations		
Depth	Date	Stabilization Time
Approx. 7′		

Depth (ft.)	Sample ID	Blows/ 6"	Sample Interval	Adv./ Rec.	PID (PPMV)	Strata Change	Field Classification
							Surface: Fill
0							
	S-1	3,4,4,3	0-2′	24/12	0		FILL: dark brown, loose, fine to coarse sandy fill
5							
	S-2	2,4,5,11	5′-7′	24/12	0.1		Light to medium brown, loose to medium dense, fine sand with some coarse sand
10							
	S-3	26,60,118	10′-12′	18/10	0.4		Light brown, dense, fine to medium sand with some coarse sand
15							
20							

REMARKS: 1) Refusal at 12′

CYGNUS GROUP INCORPORATED

BORING LOG

Project:	New Bedford Brownfields	Boring No.:	CSS-1
Location:	Standard Times Field	Page:	1 of 10
Drilling Contractor:	Soil Exploration	Date Started:	3/7/00
Inspected by:	Oliver Leek	Dated Finished:	3/7/00

Well Depth:	Length of Riser:	Length of Screen:	Screen I.D.:	Riser I.D.:

	Casing	Sampler	Bit
Type	Hydraulic Push	Push	
Size I.D.	2"	2"	
Hammer WT.			
Hammer Fall			

Groundwater Observations		
Depth	Date	Stabilization Time

Depth (ft.)	Sample ID	Blows/ 6"	Sample Interval	Adv./ Rec.	PID (PPMV)	Strata Change	Field Classification
							Surface: Fill
0							
	0'-3'		0'-3'	36/30	0.2		Fill, Dark brown, fine to coarse sand with debris and gravel throughout
5							
	3'-6'		3'-6'	36/28	0		Fill, Dark brown, fine to coarse sand with debris and gravel throughout
10							
15							
20							

REMARKS: 1)

CYGNUS GROUP INCORPORATED

BORING LOG

Project:	New Bedford Brownfields	Boring No.:	CSS-2
Location:	Standard Times Field	Page:	2 of 10
Drilling Contractor:	Soil Exploration	Date Started:	3/7/00
Inspected by:	Oliver Leek	Dated Finished:	3/7/00

Well Depth:	Length of Riser:	Length of Screen:	Screen I.D.:	Riser I.D.:

	Casing	Sampler	Bit
Type	Hydraulic Push	Push	
Size I.D.	2"	2"	
Hammer WT.			
Hammer Fall			

Groundwater Observations		
Depth	Date	Stabilization Time

Depth (ft.)	Sample ID	Blows/ 6"	Sample Interval	Adv./ Rec.	PID (PPMV)	Strata Change	Field Classification Surface: Fill
0							
	0'-3'		0'-3'	36/30	0		Fill, Dark brown, fine to coarse sand with debris and gravel throughout
5							
	3'-6'		3'-6'	36/28	0		Fill, Dark brown, fine to coarse sand with debris and gravel throughout
10							
15							
20							

REMARKS: 1)

CYGNUS GROUP INCORPORATED

BORING LOG

Project:	New Bedford Brownfields	Boring No.:	CSS-3
Location:	Standard Times Field	Page:	3 of 10
Drilling Contractor:	Soil Exploration	Date Started:	3/7/00
Inspected by:	Oliver Leek	Dated Finished:	3/7/00

Well Depth:	Length of Riser:	Length of Screen:	Screen I.D.:	Riser I.D.:

	Casing	Sampler	Bit
Type	Hydraulic Push	Push	
Size I.D.	2"	2"	
Hammer WT.			
Hammer Fall			

Groundwater Observations		
Depth	Date	Stabilization Time

Depth (ft.)	Sample ID	Blows/ 6"	Sample Interval	Adv./ Rec.	PID (PPMV)	Strata Change	Field Classification Surface: Fill
0							
	0'-3'		0'-3'	36/30	0		Fill, Dark brown, fine to coarse sand with debris and gravel throughout
5							
	3'-6'		3'-6'	36/28	0		Fill, Dark brown, fine to coarse sand with debris and gravel throughout
10							
15							
20							

REMARKS: 1)

CYGNUS GROUP INCORPORATED

BORING LOG

Project:	New Bedford Brownfields	Boring No.:	CSS-4
Location:	Standard Times Field	Page:	4 of 10
Drilling Contractor:	Soil Exploration	Date Started:	3/7/00
Inspected by:	Oliver Leek	Dated Finished:	3/7/00

Well Depth:	Length of Riser:	Length of Screen:	Screen I.D.:	Riser I.D.:

	Casing	Sampler	Bit
Type	Hydraulic Push	Push	
Size I.D.	2"	2"	
Hammer WT.			
Hammer Fall			

Groundwater Observations		
Depth	Date	Stabilization Time

Depth (ft.)	Sample ID	Blows/ 6"	Sample Interval	Adv./ Rec.	PID (PPMV)	Strata Change	Field Classification Surface: Fill
0							
	0'-3'		0'-3'	36/30	0.2		Fill, Dark brown, fine to coarse sand with debris and gravel throughout
5							
	3'-6'		3'-6'	36/28	0		Fill, Dark brown, fine to coarse sand with debris and gravel throughout
10							
15							
20							

REMARKS: 1)

/GNUS GROUP INCORPORATED

BORING LOG

Project:	New Bedford Brownfields	Boring No.:	CSS-5
Location:	Standard Times Field	Page:	5 of 10
Drilling Contractor:	Soil Exploration	Date Started:	3/7/00
Inspected by:	Oliver Leek	Dated Finished:	3/7/00

ell Depth:	Length of Riser:	Length of Screen:	Screen I.D.:	Riser I.D.:

	Casing	Sampler	Bit
ıe	Hydraulic Push	Push	
e I.D.	2"	2"	
mmer WT.			
mmer Fall			

Groundwater Observations		
Depth	Date	Stabilization Time

epth (ft.)	Sample ID	Blows/ 6"	Sample Interval	Adv./ Rec.	PID (PPMV)	Strata Change	Field Classification Surface: Fill
0							
	0'-3'		0'-3'	36/30	0		Fill, Dark brown, fine to coarse sand with debris and gravel throughout
5							
	3'-6'		3'-6'	36/28	0.4		Fill, medium brown, fine to coarse sand with debris and gravel throughout
10							
15							
20							

REMARKS: 1)

Common Sense Environmental, Inc.
50 Theresa Street
South Dartmouth, MA 02748
Telephone: 508-991-3491
Cell: 508-726-0902
Fax: 508-992-5039

Visual Classification of Soils
Test Pit: CSE/TP1
25-May-06
Thursday

CSE Field Rep: Cynthia Gilchrest

Project name: 16 Blackmer Street, New Bedford, MA
Weather: Clear, warm, 70 degrees
Site Visitors: Kevin Beaulieu, LSP, Able/Earth Tech, driller

Latitude _____
Longitude _____

Depth (ft)	Sample	Description	USCS	Remarks
3.0 feet	CSE TP-1 0-3 ft	Vegetation, sea grass and weeds FILL- - brown loose soil, rounded cobbles black coal ash, cinders, porcelain, brick fragments, leather		PID 0.0 ppm low tide odor
6.0 feet	CSE TP-1 3-6 ft	FILL- brown soil, rounded cobbles, black coal ash, cinders, porcelain, brick fragments Sand - brown silty sand with crushed shells, rounded gravel Total depth 6 feet		PID 0.0 ppm
7.5 ft.				
10.0 ft				
12.5 ft.				

ToxiRAE Model No. PGM-30, Serial 003684

Groundwater is dark silty, low tide/organic odor

Common Sense Environmental, Inc.
50 Theresa Street
South Dartmouth, MA 02748
Telephone: 508-991-3491
Cell: 508-726-0902
Fax: 508-992-5039

Visual Classification of Soils
Test Pit: CSE/TP2
25-May-06
Thursday

CSE Field Rep: Cynthia Gilchrest

Project name: 16 Blackmer Street, New Bedford, MA
Weather: Clear, warm, 70 degrees
Site Visitors: Kevin Beaulieu, LSP, Able/Earth Tech, driller

Latitude _____
Longitude _____

Depth (ft)	Sample	Description	USCS	Remarks
3.0 feet	CSE TP-2 0-3 ft	Vegetation, sea grass and weeds SAND - black, silty, loose FILL- - brown loose soil, rounded cobbles black coal ash, cinders, porcelain, brick fragments, leather GRAVEL - some sand and cobbles		PID 0.2 ppm low tide odor
6.0 feet	CSE TP-2 3-6 ft	FILL- brown soil, rounded cobbles, black coal ash, porcelain, brick fragments CLAY- gray, soft, silty, saturated SHELLS - crushed, rounded gravel Refusal - ledge at 6 feet		PID 0.0 ppm
7.5 ft.				
10.0 ft				
12.5 ft.				

ToxiRAE Model No. PGM-30, Serial 003684

Groundwater is dark silty, low tide/organic odor

Common Sense Environmental, Inc.
50 Theresa Street
South Dartmouth, MA 02748
Telephone: 508-991-3491
Cell: 508-726-0902
Fax: 508-992-5039

Visual Classification of Soils
Test Pit: CSE/TP3
25-May-06
Thursday

CSE Field Rep: Cynthia Gilchrest

Project name: 16 Blackmer Street, New Bedford, MA
Weather: Clear, warm, 70 degrees
Site Visitors: Kevin Beaulieu, LSP, Able/Earth Tech, driller

Latitude _____
Longitude _____

Depth (ft)	Sample	Description	USCS	Remarks
3.0 feet	CSE TP-3 0-3 ft	Vegetation, sea grass and weeds FILL- - brown loose soil, rounded cobbles black coal ash, cinders, porcelain, brick fragments, boulders		PID 0.0 ppm low tide odor
6.0 feet	CSE TP-3 3-6 ft	FILL- brown soil, rounded cobbles, black coal ash, cinders, porcelain, brick fragments GRAVEL - subangular and crushed shells Total depth 6 feet		PID 0.5 ppm
7.5 ft.				
10.0 ft				
12.5 ft.				

ToxiRAE Model No. PGM-30, Serial 003684

Groundwater is dark silty, low tide/organic odor

Common Sense Environmental, Inc.
50 Theresa Street
South Dartmouth, MA 02748
Telephone: 508-991-3491
Cell: 508-726-0902
Fax: 508-992-5039

Visual Classification of Soils
Borehole: BH1/CSE-2
25-May-06
Thursday

CSE Field Rep: Cynthia Gilchrest

Project name: 16 Blackmer Street, New Bedford, MA
Weather: Clear, warm, 70 degrees
Site Visitors: Kevin Beaulieu, LSP, Able/Earth Tech, driller

Latitude _____
Longitude _____

Depth (ft)	Sample	Well	Blows	Description	USCS	Remarks
2.5 ft	BH1 0-.25		4,5,8 8,8	Graded soils, cobbles and large boulders, coarse sand, loose SAND - brown,silty, loose, slightly moist	SM	PID 0.0 ppm
5.0 ft	BH1 2.5-5		13,16,8 16,7	No Recovery SAND - black, silty sand, some cobbles, medium density, some coarse sand, wet	SM	PID 0.7 ppm
7.5 ft.	BH1 5-7.5		3,8,12 20,25	SAND - brown, silty sand, some cobbles, loose, some coarse sand, saturated SAND - coarse, gray, well rounded, very loose, saturated	SM GW	PID 0.3 ppm PID 0.1 ppm
10.0 ft	BH1 7.5-9		51,79 107	SAND - coarse, gray, well rounded, very loose, some cobbles, saturated Total depth 9.0 feet	GW	PID 0.1 ppm PID 0.0 ppm
12.5 ft.						

ToxiRAE Model No. PGM-30, Serial 003684
140# hammer, 30" drop, 2" split spoon, locked road boxes on wells
Two-inch well completed, 8 ft screen. Well developed 5/25/06 via bailer.
Well development data: DTW 4.08 feet, TD 8.11 feet, 4.03 foot water column, bailed 3.46 gallons/5 well vols
Groundwater is brown silty, cloudy

Common Sense Environmental, Inc.
50 Theresa Street
South Dartmouth, MA 02748
Telephone: 508-991-3491
Cell: 508-726-0902
Fax: 508-992-5039

Visual Classification of Soils
Borehole: BH2/CSE-3
25-May-06
Thursday

CSE Field Rep: Cynthia Gilchrest

Project name: 16 Blackmer Street, New Bedford, MA
Weather: Clear, warm, 70 degrees
Site Visitors: Kevin Beaulieu, LSP, Able/Earth Tech, driller

Latitude _____
Longitude _____

Depth (ft)	Sample	Well	Blows	Description	USCS	Remarks
2.5 ft	BH2 0-2.5		4,7,12 11, 55	FILL - brown, loose, fine to coarse sandy fill, brick fragments, metal, porcelain No recovery		PID 0.0 ppm
4.0 ft	BH2 2.5-4			FILL - dark brown, loose, fine to coarse sandy fill, brick fragments, clear glass, moist		PID 0.0 ppm
6.5 ft.	BH2 4-6.5		15,13, 10 10, 13	FILL - dark brown, loose, fine to coarse sandy fill, brick fragments, metal, porcelain, saturated FILL - black, loose, fine to coarse sandy fill, coal ash, rounded cobbles, saturated		PID 0.0 ppm PID 0.0 ppm
9.0 ft	BH2 6.5-9		19, 29, 46 56, 51	FILL - black, loose, fine to coarse sandy fill, coal, rounded cobbles, saturated SAND - brown, silty sand, some cobbles, loose, some coarse sand, saturated	ML	PID 0.0 ppm PID 0.0 ppm
12.5 ft.				Total depth 9.0 feet		

ToxiRAE Model No. PGM-30, Serial 003684
140# hammer, 30" drop, 2" split spoon, locked road boxes on wells
Two-inch well completed, 8 ft screen. Well developed 5/25/06 via bailer.
Well development data: DTW 4.53 feet, TD 8.93 feet, 4.40 foot water column, bailed 3.6 gallons/5 well volumes
Groundwater is muddy, borwn, no odor

Common Sense Environmental, Inc.
50 Theresa Street
South Dartmouth, MA 02748
Telephone: 508-991-3491
Cell: 508-726-0902
Fax: 508-992-5039

Visual Classification of Soils
Borehole: BH1/CSE-2
25-May-06
Thursday

CSE Field Rep: Cynthia Gilchrest

Project name: 16 Blackmer Street, New Bedford, MA
Weather: Clear, warm, 70 degrees
Site Visitors: Kevin Beaulieu, LSP, Able/Earth Tech, driller

Latitude _____
Longitude _____

Depth (ft)	Sample	Well	Blows	Description	USCS	Remarks
2.5 ft	BH1 0-.25		4,5,8 8,8	Graded soils, cobbles and large boulders, coarse sand, loose SAND - brown,silty, loose, slightly moist	SM	PID 0.0 ppm
5.0 ft	BH1 2.5-5		13,16,8 16,7	No Recovery SAND - black, silty sand, some cobbles, medium density, some coarse sand, wet	SM	PID 0.7 ppm
7.5 ft.	BH1 5-7.5		3,8,12 20,25	SAND - brown, silty sand, some cobbles, loose, some coarse sand, saturated SAND - coarse, gray, well rounded, very loose, saturated	SM GW	PID 0.3 ppm PID 0.1 ppm
10.0 ft	BH1 7.5-9		51,79 107	SAND - coarse, gray, well rounded, very loose, some cobbles, saturated Total depth 9.0 feet	GW	PID 0.1 ppm PID 0.0 ppm
12.5 ft.						

ToxiRAE Model No. PGM-30, Serial 003684
140# hammer, 30" drop, 2" split spoon, locked road boxes on wells
Two-inch well completed, 8 ft screen. Well developed 5/25/06 via bailer.
Well development data: DTW 4.08 feet, TD 8.11 feet, 4.03 foot water column, bailed 3.46 gallons/5 well vols
Groundwater is brown silty, cloudy

Appendix C Soil Analytical Data Sheets

Wednesday, June 07, 2006

GeoLabs, Inc.
45 Johnson Lane
Braintree MA 02184
Tele: 781 848 7844
Fax: 781 848 7811

Cynthia Gilchrest
Common Sense Envtl Inc
50 Theresa Street
South Dartmouth, MA 02748

TEL: (508) 991-3491
FAX: (508) 992-5039

Project: MA Fisheries
Location: 16 Blackman St, New Bedford, MA

Order No.: 0605397

Dear Cynthia Gilchrest:

GeoLabs, Inc. received 21 sample(s) on 5/26/2006 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Jim Chen
Laboratory Director

GeoLabs, Inc. **Date:** *07-Jun-06*

CLIENT:	Common Sense Envtl Inc
Project:	MA Fisheries
Lab Order:	0605397

CASE NARRATIVE

EPH Methods

Method for Ranges: MADEP EPH 04-1.1
Method for Target Analytes: 8270 GC/MS

Carbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range
C11-C22 Aromatic Hydrocarbons exclude concentrations of Target PAH Analytes

CERTIFICATION:
Were all QA/QC procedures REQUIRED by the EPH Method followed? YES
Were all performance/acceptance standards achieved? YES
Were any significant modifications made to the EPH method? NO

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

SIGNATURE: LAB DIRECTOR

PRINTED NAME: Jim Chen

DATE: June 7, 2006

GeoLabs, Inc.

Date: *07-Jun-06*

CLIENT: Common Sense Envtl Inc
Project: MA Fisheries

Lab Order: 0605397

Lab ID: 0605397-001
Client Sample ID: BH6 0-2.5

Collection Date: 5/25/2006
Matrix: SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
EPH RANGES		**MADEP EPH**		**(MADEP EPH)**		Analyst: **KH**
Adjusted C11-C22 Aromatics	611	11.4		mg/Kg-dry	1	6/5/2006
C09-C18 Aliphatics	ND	11.4		mg/Kg-dry	1	6/5/2006
C19-C36 Aliphatics	109	11.4		mg/Kg-dry	1	6/5/2006
Unadjusted C11-C22 Aromatics	789	11.4		mg/Kg-dry	1	6/5/2006
Surr: 1-Chlorooctadecane	66.0	40-140		%REC	1	6/5/2006
Surr: o-Terphenyl	102	40-140		%REC	1	6/5/2006
METALS, TOTAL		**SW6010B**		**(SW3050B)**		Analyst: **QS**
Lead	1870	96.3		mg/Kg-dry	10	6/1/2006
EPH TARGET ANALYTES		**MADEP EPH_P**		**(EPH_SPR)**		Analyst: **ZYZ**
Naphthalene	1.39	0.568		mg/Kg-dry	10	6/5/2006 2:35:00 PM
2-Methylnaphthalene	ND	0.568		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Acenaphthene	2.11	1.14		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Phenanthrene	38.3	0.568		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Acenaphthylene	1.43	0.568		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Fluorene	2.98	0.284		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Anthracene	5.45	0.568		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Fluoranthene	47.0	2.27		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Pyrene	40.9	2.27		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Benzo(a)anthracene	18.2	1.14		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Chrysene	20.0	1.14		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Benzo(b)fluoranthene	ND	1.70		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Benzo(k)fluoranthene	ND	1.14		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Benzo(a)pyrene	ND	1.14		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.568		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Dibenz(a,h)anthracene	ND	1.14		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Benzo(g,h,I)perylene	ND	1.14		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Total PAH Target Concentration	178	0		mg/Kg-dry	10	6/5/2006 2:35:00 PM
Surr: 2,2'-difluorobiphenyl	52.0	40-140		%REC	10	6/5/2006 2:35:00 PM
Surr: 2-Fluorobiphenyl	51.2	40-140		%REC	10	6/5/2006 2:35:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GeoLabs, Inc.

Date: *07-Jun-06*

CLIENT: Common Sense Envtl Inc
Project: MA Fisheries
Lab Order: 0605397

Lab ID: 0605397-002
Collection Date: 5/25/2006
Client Sample ID: BH6 0-2.5
Matrix: AO

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
ASBESTOS BY PLM		**E600/R-93/116**				Analyst: **SUB**
Asbestos	<1% Chrysotile	0		%	1	6/4/2006

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GeoLabs, Inc.

Date: *07-Jun-06*

CLIENT: Common Sense Envtl Inc
Project: MA Fisheries

Lab Order: 0605397

Lab ID: 0605397-003
Client Sample ID: BH6 2.5-5.0

Collection Date: 5/25/2006
Matrix: SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
EPH RANGES		**MADEP EPH**		**(MADEP EPH)**		Analyst: **KH**
Adjusted C11-C22 Aromatics	321	12.3		mg/Kg-dry	1	6/5/2006
C09-C18 Aliphatics	329	12.3		mg/Kg-dry	1	6/5/2006
C19-C36 Aliphatics	108	12.3		mg/Kg-dry	1	6/5/2006
Unadjusted C11-C22 Aromatics	387	12.3		mg/Kg-dry	1	6/5/2006
Surr: 1-Chlorooctadecane	82.0	40-140		%REC	1	6/5/2006
Surr: o-Terphenyl	101	40-140		%REC	1	6/5/2006
METALS, TOTAL		**SW6010B**		**(SW3050B)**		Analyst: **QS**
Lead	106000	10800		mg/Kg-dry	1000	6/1/2006
EPH TARGET ANALYTES		**MADEP EPH_P**		**(EPH_SPR)**		Analyst: **ZYZ**
Naphthalene	0.207	0.0617		mg/Kg-dry	1	6/5/2006 3:08:00 PM
2-Methylnaphthalene	ND	0.0617		mg/Kg-dry	1	6/5/2006 3:08:00 PM
Acenaphthene	0.222	0.123		mg/Kg-dry	1	6/5/2006 3:08:00 PM
Phenanthrene	14.0	0.0617		mg/Kg-dry	1	6/5/2006 3:08:00 PM
Acenaphthylene	0.538	0.0617		mg/Kg-dry	1	6/5/2006 3:08:00 PM
Fluorene	0.649	0.0309		mg/Kg-dry	1	6/5/2006 3:08:00 PM
Anthracene	1.18	0.0617		mg/Kg-dry	1	6/5/2006 3:08:00 PM
Fluoranthene	18.4	0.247		mg/Kg-dry	1	6/5/2006 3:08:00 PM
Pyrene	17.9	0.247		mg/Kg-dry	1	6/5/2006 3:08:00 PM
Benzo(a)anthracene	6.05	0.123		mg/Kg-dry	1	6/5/2006 3:08:00 PM
Chrysene	7.70	0.123		mg/Kg-dry	1	6/5/2006 3:08:00 PM
Benzo(b)fluoranthene	ND	0.185		mg/Kg-dry	1	6/5/2006 3:08:00 PM
Benzo(k)fluoranthene	ND	0.123		mg/Kg-dry	1	6/5/2006 3:08:00 PM
Benzo(a)pyrene	ND	0.123		mg/Kg-dry	1	6/5/2006 3:08:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0617		mg/Kg-dry	1	6/5/2006 3:08:00 PM
Dibenz(a,h)anthracene	ND	0.123		mg/Kg-dry	1	6/5/2006 3:08:00 PM
Benzo(g,h,I)perylene	ND	0.123		mg/Kg-dry	1	6/5/2006 3:08:00 PM
Total PAH Target Concentration	66.8	0		mg/Kg-dry	1	6/5/2006 3:08:00 PM
Surr: 2,2'-difluorobiphenyl	67.2	40-140		%REC	1	6/5/2006 3:08:00 PM
Surr: 2-Fluorobiphenyl	64.3	40-140		%REC	1	6/5/2006 3:08:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GeoLabs, Inc.

Date: *07-Jun-06*

CLIENT: Common Sense Envtl Inc
Project: MA Fisheries
Lab Order: 0605397

Lab ID: 0605397-004
Collection Date: 5/25/2006
Client Sample ID: BH6 5.0-7.5
Matrix: SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
METALS, TOTAL		**SW6010B**		**(SW3050B)**		Analyst: **QS**
Lead	8970	1060		mg/Kg-dry	100	6/1/2006

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GeoLabs, Inc.

Date: *07-Jun-06*

CLIENT: Common Sense Envtl Inc
Project: MA Fisheries
Lab Order: 0605397

Lab ID: 0605397-005
Collection Date: 5/25/2006
Client Sample ID: BH1 0-2.5
Matrix: SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
EPH RANGES		**MADEP EPH**		**(MADEP EPH)**		Analyst: **KH**
Adjusted C11-C22 Aromatics	173	11.5		mg/Kg-dry	1	6/5/2006
C09-C18 Aliphatics	ND	11.5		mg/Kg-dry	1	6/5/2006
C19-C36 Aliphatics	20.2	11.5		mg/Kg-dry	1	6/5/2006
Unadjusted C11-C22 Aromatics	292	11.5		mg/Kg-dry	1	6/5/2006
Surr: 1-Chlorooctadecane	70.0	40-140		%REC	1	6/5/2006
Surr: o-Terphenyl	75.0	40-140		%REC	1	6/5/2006
POLYCHLORINATED BIPHENYLS		**SW8082**		**(SW3550)**		Analyst: **GP**
Aroclor 1016/1242	ND	57.5		µg/Kg-dry	1	5/31/2006
Aroclor 1221	ND	57.5		µg/Kg-dry	1	5/31/2006
Aroclor 1232	ND	57.5		µg/Kg-dry	1	5/31/2006
Aroclor 1248	ND	57.5		µg/Kg-dry	1	5/31/2006
Aroclor 1254	72.9	57.5		µg/Kg-dry	1	5/31/2006
Aroclor 1260	ND	57.5		µg/Kg-dry	1	5/31/2006
Aroclor 1262	ND	57.5		µg/Kg-dry	1	5/31/2006
Aroclor 1268	ND	57.5		µg/Kg-dry	1	5/31/2006
Surr: Decachlorobiphenyl Sig 1	118	30-150		%REC	1	5/31/2006
Surr: Decachlorobiphenyl Sig 2	118	30-150		%REC	1	5/31/2006
Surr: Tetrachloro-m-xylene Sig 1	76.0	30-150		%REC	1	5/31/2006
Surr: Tetrachloro-m-xylene Sig 2	94.0	30-150		%REC	1	5/31/2006
METALS, TOTAL		**SW6010B**		**(SW3050B)**		Analyst: **QS**
Lead	111	9.94		mg/Kg-dry	1	6/1/2006
EPH TARGET ANALYTES		**MADEP EPH_P**		**(EPH_SPR)**		Analyst: **ZYZ**
Naphthalene	0.147	0.0575		mg/Kg-dry	1	6/5/2006 3:41:00 PM
2-Methylnaphthalene	ND	0.0575		mg/Kg-dry	1	6/5/2006 3:41:00 PM
Acenaphthene	0.602	0.115		mg/Kg-dry	1	6/5/2006 3:41:00 PM
Phenanthrene	25.8	0.0575		mg/Kg-dry	1	6/5/2006 3:41:00 PM
Acenaphthylene	1.26	0.0575		mg/Kg-dry	1	6/5/2006 3:41:00 PM
Fluorene	1.83	0.0287		mg/Kg-dry	1	6/5/2006 3:41:00 PM
Anthracene	4.66	0.0575		mg/Kg-dry	1	6/5/2006 3:41:00 PM
Fluoranthene	33.0	0.230		mg/Kg-dry	1	6/5/2006 3:41:00 PM
Pyrene	27.8	0.230		mg/Kg-dry	1	6/5/2006 3:41:00 PM
Benzo(a)anthracene	12.1	0.115		mg/Kg-dry	1	6/5/2006 3:41:00 PM
Chrysene	11.3	0.115		mg/Kg-dry	1	6/5/2006 3:41:00 PM
Benzo(b)fluoranthene	ND	0.172		mg/Kg-dry	1	6/5/2006 3:41:00 PM
Benzo(k)fluoranthene	ND	0.115		mg/Kg-dry	1	6/5/2006 3:41:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

CLIENT: Common Sense Envtl Inc **Lab Order:** 0605397
Project: MA Fisheries

EPH TARGET ANALYTES		MADEP EPH_P	(EPH_SPR)		Analyst: ZYZ
Benzo(a)pyrene	ND	0.115	mg/Kg-dry	1	6/5/2006 3:41:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0575	mg/Kg-dry	1	6/5/2006 3:41:00 PM
Dibenz(a,h)anthracene	ND	0.115	mg/Kg-dry	1	6/5/2006 3:41:00 PM
Benzo(g,h,I)perylene	ND	0.115	mg/Kg-dry	1	6/5/2006 3:41:00 PM
Total PAH Target Concentration	119	0	mg/Kg-dry	1	6/5/2006 3:41:00 PM
Surr: 2,2'-difluorobiphenyl	60.4	40-140	%REC	1	6/5/2006 3:41:00 PM
Surr: 2-Fluorobiphenyl	60.2	40-140	%REC	1	6/5/2006 3:41:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GeoLabs, Inc.

Date: *07-Jun-06*

CLIENT: Common Sense Envtl Inc
Project: MA Fisheries
Lab Order: 0605397

Lab ID: 0605397-006
Collection Date: 5/25/2006
Client Sample ID: BH1 2.5-5.0
Matrix: SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
EPH RANGES		**MADEP EPH**		**(MADEP EPH)**		Analyst: **KH**
Adjusted C11-C22 Aromatics	200	12.2		mg/Kg-dry	1	6/5/2006
C09-C18 Aliphatics	ND	12.2		mg/Kg-dry	1	6/5/2006
C19-C36 Aliphatics	83.4	12.2		mg/Kg-dry	1	6/5/2006
Unadjusted C11-C22 Aromatics	242	12.2		mg/Kg-dry	1	6/5/2006
Surr: 1-Chlorooctadecane	76.0	40-140		%REC	1	6/5/2006
Surr: o-Terphenyl	96.0	40-140		%REC	1	6/5/2006
POLYCHLORINATED BIPHENYLS		**SW8082**		**(SW3550)**		Analyst: **GP**
Aroclor 1016/1242	ND	61.0		µg/Kg-dry	1	5/31/2006
Aroclor 1221	ND	61.0		µg/Kg-dry	1	5/31/2006
Aroclor 1232	ND	61.0		µg/Kg-dry	1	5/31/2006
Aroclor 1248	ND	61.0		µg/Kg-dry	1	5/31/2006
Aroclor 1254	ND	61.0		µg/Kg-dry	1	5/31/2006
Aroclor 1260	ND	61.0		µg/Kg-dry	1	5/31/2006
Aroclor 1262	ND	61.0		µg/Kg-dry	1	5/31/2006
Aroclor 1268	ND	61.0		µg/Kg-dry	1	5/31/2006
Surr: Decachlorobiphenyl Sig 1	122	30-150		%REC	1	5/31/2006
Surr: Decachlorobiphenyl Sig 2	126	30-150		%REC	1	5/31/2006
Surr: Tetrachloro-m-xylene Sig 1	78.0	30-150		%REC	1	5/31/2006
Surr: Tetrachloro-m-xylene Sig 2	84.0	30-150		%REC	1	5/31/2006
METALS, TOTAL		**SW6010B**		**(SW3050B)**		Analyst: **QS**
Lead	287	10.3		mg/Kg-dry	1	6/1/2006
EPH TARGET ANALYTES		**MADEP EPH_P**		**(EPH_SPR)**		Analyst: **ZYZ**
Naphthalene	0.239	0.0610		mg/Kg-dry	1	6/5/2006 4:15:00 PM
2-Methylnaphthalene	ND	0.0610		mg/Kg-dry	1	6/5/2006 4:15:00 PM
Acenaphthene	0.420	0.122		mg/Kg-dry	1	6/5/2006 4:15:00 PM
Phenanthrene	6.74	0.0610		mg/Kg-dry	1	6/5/2006 4:15:00 PM
Acenaphthylene	0.307	0.0610		mg/Kg-dry	1	6/5/2006 4:15:00 PM
Fluorene	0.505	0.0305		mg/Kg-dry	1	6/5/2006 4:15:00 PM
Anthracene	1.30	0.0610		mg/Kg-dry	1	6/5/2006 4:15:00 PM
Fluoranthene	11.4	0.244		mg/Kg-dry	1	6/5/2006 4:15:00 PM
Pyrene	10.1	0.244		mg/Kg-dry	1	6/5/2006 4:15:00 PM
Benzo(a)anthracene	4.90	0.122		mg/Kg-dry	1	6/5/2006 4:15:00 PM
Chrysene	5.11	0.122		mg/Kg-dry	1	6/5/2006 4:15:00 PM
Benzo(b)fluoranthene	ND	0.183		mg/Kg-dry	1	6/5/2006 4:15:00 PM
Benzo(k)fluoranthene	ND	0.122		mg/Kg-dry	1	6/5/2006 4:15:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

CLIENT: Common Sense Envtl Inc **Lab Order:** 0605397
Project: MA Fisheries

EPH TARGET ANALYTES		MADEP EPH_P	(EPH_SPR)		Analyst: ZYZ
Benzo(a)pyrene	ND	0.122	mg/Kg-dry	1	6/5/2006 4:15:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0610	mg/Kg-dry	1	6/5/2006 4:15:00 PM
Dibenz(a,h)anthracene	ND	0.122	mg/Kg-dry	1	6/5/2006 4:15:00 PM
Benzo(g,h,I)perylene	ND	0.122	mg/Kg-dry	1	6/5/2006 4:15:00 PM
Total PAH Target Concentration	41.0	0	mg/Kg-dry	1	6/5/2006 4:15:00 PM
Surr: 2,2'-difluorobiphenyl	68.4	40-140	%REC	1	6/5/2006 4:15:00 PM
Surr: 2-Fluorobiphenyl	67.0	40-140	%REC	1	6/5/2006 4:15:00 PM

Lab ID: 0605397-007 **Collection Date:** 5/25/2006
Client Sample ID: Duplicate 1 **Matrix:** SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
METALS, TOTAL		SW6010B		(SW3050B)		Analyst: QS
Lead	194	10.3		mg/Kg-dry	1	6/1/2006

Lab ID: 0605397-008 **Collection Date:** 5/25/2006
Client Sample ID: BH1 5-7.5 **Matrix:** SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
METALS, TOTAL		SW6010B		(SW3050B)		Analyst: QS
Lead	ND	10.5		mg/Kg-dry	1	6/1/2006

Lab ID: 0605397-009 **Collection Date:** 5/25/2006
Client Sample ID: BH2 0-2.5 **Matrix:** SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
METALS, TOTAL		SW6010B		(SW3050B)		Analyst: QS
Lead	313	9.63		mg/Kg-dry	1	6/1/2006

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GeoLabs, Inc.

Date: *07-Jun-06*

CLIENT: Common Sense Envtl Inc
Project: MA Fisheries
Lab Order: 0605397

Lab ID: 0605397-010
Collection Date: 5/25/2006
Client Sample ID: BH2 2.5-4
Matrix: SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
EPH RANGES		**MADEP EPH**		**(MADEP EPH)**		Analyst: **KH**
Adjusted C11-C22 Aromatics	86.6	13.2		mg/Kg-dry	1	6/5/2006
C09-C18 Aliphatics	ND	13.2		mg/Kg-dry	1	6/5/2006
C19-C36 Aliphatics	32.2	13.2		mg/Kg-dry	1	6/5/2006
Unadjusted C11-C22 Aromatics	117	13.2		mg/Kg-dry	1	6/5/2006
Surr: 1-Chlorooctadecane	59.0	40-140		%REC	1	6/5/2006
Surr: o-Terphenyl	79.0	40-140		%REC	1	6/5/2006
POLYCHLORINATED BIPHENYLS		**SW8082**		**(SW3550)**		Analyst: **GP**
Aroclor 1016/1242	ND	65.8		µg/Kg-dry	1	5/31/2006
Aroclor 1221	ND	65.8		µg/Kg-dry	1	5/31/2006
Aroclor 1232	ND	65.8		µg/Kg-dry	1	5/31/2006
Aroclor 1248	ND	65.8		µg/Kg-dry	1	5/31/2006
Aroclor 1254	105	65.8		µg/Kg-dry	1	5/31/2006
Aroclor 1260	ND	65.8		µg/Kg-dry	1	5/31/2006
Aroclor 1262	ND	65.8		µg/Kg-dry	1	5/31/2006
Aroclor 1268	ND	65.8		µg/Kg-dry	1	5/31/2006
Surr: Decachlorobiphenyl Sig 1	118	30-150		%REC	1	5/31/2006
Surr: Decachlorobiphenyl Sig 2	114	30-150		%REC	1	5/31/2006
Surr: Tetrachloro-m-xylene Sig 1	74.0	30-150		%REC	1	5/31/2006
Surr: Tetrachloro-m-xylene Sig 2	82.0	30-150		%REC	1	5/31/2006
METALS, TOTAL		**SW6010B**		**(SW3050B)**		Analyst: **QS**
Lead	339	11.2		mg/Kg-dry	1	6/1/2006
EPH TARGET ANALYTES		**MADEP EPH_P**		**(EPH_SPR)**		Analyst: **ZYZ**
Naphthalene	0.203	0.0658		mg/Kg-dry	1	6/5/2006 4:48:00 PM
2-Methylnaphthalene	ND	0.0658		mg/Kg-dry	1	6/5/2006 4:48:00 PM
Acenaphthene	0.405	0.132		mg/Kg-dry	1	6/5/2006 4:48:00 PM
Phenanthrene	5.77	0.0658		mg/Kg-dry	1	6/5/2006 4:48:00 PM
Acenaphthylene	0.213	0.0658		mg/Kg-dry	1	6/5/2006 4:48:00 PM
Fluorene	0.495	0.0329		mg/Kg-dry	1	6/5/2006 4:48:00 PM
Anthracene	1.13	0.0658		mg/Kg-dry	1	6/5/2006 4:48:00 PM
Fluoranthene	8.43	0.263		mg/Kg-dry	1	6/5/2006 4:48:00 PM
Pyrene	7.11	0.263		mg/Kg-dry	1	6/5/2006 4:48:00 PM
Benzo(a)anthracene	3.47	0.132		mg/Kg-dry	1	6/5/2006 4:48:00 PM
Chrysene	3.47	0.132		mg/Kg-dry	1	6/5/2006 4:48:00 PM
Benzo(b)fluoranthene	ND	0.197		mg/Kg-dry	1	6/5/2006 4:48:00 PM
Benzo(k)fluoranthene	ND	0.132		mg/Kg-dry	1	6/5/2006 4:48:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

CLIENT: Common Sense Envtl Inc **Lab Order:** 0605397
Project: MA Fisheries

EPH TARGET ANALYTES		MADEP EPH_P	(EPH_SPR)		Analyst: ZYZ
Benzo(a)pyrene	ND	0.132	mg/Kg-dry	1	6/5/2006 4:48:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0658	mg/Kg-dry	1	6/5/2006 4:48:00 PM
Dibenz(a,h)anthracene	ND	0.132	mg/Kg-dry	1	6/5/2006 4:48:00 PM
Benzo(g,h,I)perylene	ND	0.132	mg/Kg-dry	1	6/5/2006 4:48:00 PM
Total PAH Target Concentration	30.7	0	mg/Kg-dry	1	6/5/2006 4:48:00 PM
Surr: 2,2'-difluorobiphenyl	62.8	40-140	%REC	1	6/5/2006 4:48:00 PM
Surr: 2-Fluorobiphenyl	60.8	40-140	%REC	1	6/5/2006 4:48:00 PM

Lab ID: 0605397-011 **Collection Date:** 5/25/2006
Client Sample ID: BH2 2.5-4 **Matrix:** AO

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
ASBESTOS BY PLM		E600/R-93/116				Analyst: SUB
Asbestos	<1% Chrysotile	0		%	1	6/4/2006

Lab ID: 0605397-012 **Collection Date:** 5/25/2006
Client Sample ID: Duplicate 2 **Matrix:** SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
METALS, TOTAL		SW6010B		(SW3050B)		Analyst: QS
Lead	371	9.82		mg/Kg-dry	1	6/1/2006

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GeoLabs, Inc.

Date: *07-Jun-06*

CLIENT: Common Sense Envtl Inc
Project: MA Fisheries
Lab Order: 0605397

Lab ID: 0605397-013
Collection Date: 5/25/2006
Client Sample ID: BH2 4-6.5
Matrix: SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
EPH RANGES		**MADEP EPH**		**(MADEP EPH)**		Analyst: **KH**
Adjusted C11-C22 Aromatics	137	11.8		mg/Kg-dry	1	6/5/2006
C09-C18 Aliphatics	ND	11.8		mg/Kg-dry	1	6/5/2006
C19-C36 Aliphatics	19.2	11.8		mg/Kg-dry	1	6/5/2006
Unadjusted C11-C22 Aromatics	177	11.8		mg/Kg-dry	1	6/5/2006
Surr: 1-Chlorooctadecane	73.0	40-140		%REC	1	6/5/2006
Surr: o-Terphenyl	93.0	40-140		%REC	1	6/5/2006
METALS, TOTAL		**SW6010B**		**(SW3050B)**		Analyst: **QS**
Lead	5780	99.1		mg/Kg-dry	10	6/1/2006
EPH TARGET ANALYTES		**MADEP EPH_P**		**(EPH_SPR)**		Analyst: **ZYZ**
Naphthalene	0.280	0.0588		mg/Kg-dry	1	6/5/2006 5:21:00 PM
2-Methylnaphthalene	ND	0.0588		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Acenaphthene	0.689	0.118		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Phenanthrene	8.26	0.0588		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Acenaphthylene	0.275	0.0588		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Fluorene	0.795	0.0294		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Anthracene	1.72	0.0588		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Fluoranthene	10.8	0.235		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Pyrene	8.91	0.235		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Benzo(a)anthracene	4.38	0.118		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Chrysene	4.47	0.118		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Benzo(b)fluoranthene	ND	0.176		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Benzo(k)fluoranthene	ND	0.118		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Benzo(a)pyrene	ND	0.118		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0588		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Dibenz(a,h)anthracene	ND	0.118		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Benzo(g,h,I)perylene	ND	0.118		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Total PAH Target Concentration	40.6	0		mg/Kg-dry	1	6/5/2006 5:21:00 PM
Surr: 2,2'-difluorobiphenyl	70.0	40-140		%REC	1	6/5/2006 5:21:00 PM
Surr: 2-Fluorobiphenyl	68.6	40-140		%REC	1	6/5/2006 5:21:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GeoLabs, Inc.

Date: *07-Jun-06*

CLIENT: Common Sense Envtl Inc
Project: MA Fisheries
Lab Order: 0605397

Lab ID: 0605397-014
Collection Date: 5/25/2006
Client Sample ID: TP-2 0-3
Matrix: SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
EPH RANGES		**MADEP EPH**		**(MADEP EPH)**		Analyst: **KH**
Adjusted C11-C22 Aromatics	668	15.2		mg/Kg-dry	1	6/5/2006
C09-C18 Aliphatics	ND	15.2		mg/Kg-dry	1	6/5/2006
C19-C36 Aliphatics	ND	15.2		mg/Kg-dry	1	6/5/2006
Unadjusted C11-C22 Aromatics	902	15.2		mg/Kg-dry	1	6/5/2006
Surr: 1-Chlorooctadecane	48.0	40-140		%REC	1	6/5/2006
Surr: o-Terphenyl	79.0	40-140		%REC	1	6/5/2006
METALS, TOTAL		**SW6010B**		**(SW3050B)**		Analyst: **QS**
Lead	77.9	13.1		mg/Kg-dry	1	6/1/2006
EPH TARGET ANALYTES		**MADEP EPH_P**		**(EPH_SPR)**		Analyst: **ZYZ**
Naphthalene	ND	0.0758		mg/Kg-dry	1	6/6/2006 4:24:00 PM
2-Methylnaphthalene	ND	0.0758		mg/Kg-dry	1	6/6/2006 4:24:00 PM
Acenaphthene	ND	0.152		mg/Kg-dry	1	6/6/2006 4:24:00 PM
Phenanthrene	36.4	0.0758		mg/Kg-dry	1	6/6/2006 4:24:00 PM
Acenaphthylene	1.39	0.0758		mg/Kg-dry	1	6/6/2006 4:24:00 PM
Fluorene	1.32	0.0379		mg/Kg-dry	1	6/6/2006 4:24:00 PM
Anthracene	7.84	0.0758		mg/Kg-dry	1	6/6/2006 4:24:00 PM
Fluoranthene	64.7	3.03		mg/Kg-dry	10	6/6/2006 4:24:00 PM
Pyrene	59.5	0.303		mg/Kg-dry	1	6/6/2006 4:24:00 PM
Benzo(a)anthracene	29.4	0.152		mg/Kg-dry	1	6/6/2006 4:24:00 PM
Chrysene	26.0	0.152		mg/Kg-dry	1	6/6/2006 4:24:00 PM
Benzo(b)fluoranthene	ND	0.227		mg/Kg-dry	1	6/6/2006 4:24:00 PM
Benzo(k)fluoranthene	ND	0.152		mg/Kg-dry	1	6/6/2006 4:24:00 PM
Benzo(a)pyrene	ND	0.152		mg/Kg-dry	1	6/6/2006 4:24:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0758		mg/Kg-dry	1	6/6/2006 4:24:00 PM
Dibenz(a,h)anthracene	ND	0.152		mg/Kg-dry	1	6/6/2006 4:24:00 PM
Benzo(g,h,I)perylene	ND	0.152		mg/Kg-dry	1	6/6/2006 4:24:00 PM
Total PAH Target Concentration	235	0		mg/Kg-dry	1	6/6/2006 4:24:00 PM
Surr: 2,2'-difluorobiphenyl	54.0	40-140		%REC	1	6/6/2006 4:24:00 PM
Surr: 2-Fluorobiphenyl	52.6	40-140		%REC	1	6/6/2006 4:24:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GeoLabs, Inc.

Date: *07-Jun-06*

CLIENT: Common Sense Envtl Inc
Project: MA Fisheries

Lab Order: 0605397

Lab ID: 0605397-015
Client Sample ID: TP-2 3-6

Collection Date: 5/25/2006
Matrix: SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
EPH RANGES		**MADEP EPH**		**(MADEP EPH)**		Analyst: **KH**
Adjusted C11-C22 Aromatics	73.3	15.4		mg/Kg-dry	1	6/5/2006
C09-C18 Aliphatics	ND	15.4		mg/Kg-dry	1	6/5/2006
C19-C36 Aliphatics	54.7	15.4		mg/Kg-dry	1	6/5/2006
Unadjusted C11-C22 Aromatics	84.3	15.4		mg/Kg-dry	1	6/5/2006
Surr: 1-Chlorooctadecane	72.0	40-140		%REC	1	6/5/2006
Surr: o-Terphenyl	79.0	40-140		%REC	1	6/5/2006
POLYCHLORINATED BIPHENYLS		**SW8082**		**(SW3550)**		Analyst: **GP**
Aroclor 1016/1242	ND	76.9		µg/Kg-dry	1	5/31/2006
Aroclor 1221	ND	76.9		µg/Kg-dry	1	5/31/2006
Aroclor 1232	ND	76.9		µg/Kg-dry	1	5/31/2006
Aroclor 1248	ND	76.9		µg/Kg-dry	1	5/31/2006
Aroclor 1254	ND	76.9		µg/Kg-dry	1	5/31/2006
Aroclor 1260	ND	76.9		µg/Kg-dry	1	5/31/2006
Aroclor 1262	ND	76.9		µg/Kg-dry	1	5/31/2006
Aroclor 1268	ND	76.9		µg/Kg-dry	1	5/31/2006
Surr: Decachlorobiphenyl Sig 1	118	30-150		%REC	1	5/31/2006
Surr: Decachlorobiphenyl Sig 2	116	30-150		%REC	1	5/31/2006
Surr: Tetrachloro-m-xylene Sig 1	94.0	30-150		%REC	1	5/31/2006
Surr: Tetrachloro-m-xylene Sig 2	92.0	30-150		%REC	1	5/31/2006
METALS, TOTAL		**SW6010B**		**(SW3050B)**		Analyst: **QS**
Lead	ND	13.2		mg/Kg-dry	1	6/1/2006
EPH TARGET ANALYTES		**MADEP EPH_P**		**(EPH_SPR)**		Analyst: **ZYZ**
Naphthalene	ND	0.0769		mg/Kg-dry	1	6/6/2006 4:58:00 PM
2-Methylnaphthalene	ND	0.0769		mg/Kg-dry	1	6/6/2006 4:58:00 PM
Acenaphthene	ND	0.154		mg/Kg-dry	1	6/6/2006 4:58:00 PM
Phenanthrene	1.50	0.0769		mg/Kg-dry	1	6/6/2006 4:58:00 PM
Acenaphthylene	0.246	0.0769		mg/Kg-dry	1	6/6/2006 4:58:00 PM
Fluorene	ND	0.0385		mg/Kg-dry	1	6/6/2006 4:58:00 PM
Anthracene	0.317	0.0769		mg/Kg-dry	1	6/6/2006 4:58:00 PM
Fluoranthene	3.17	0.308		mg/Kg-dry	1	6/6/2006 4:58:00 PM
Pyrene	2.95	0.308		mg/Kg-dry	1	6/6/2006 4:58:00 PM
Benzo(a)anthracene	1.31	0.154		mg/Kg-dry	1	6/6/2006 4:58:00 PM
Chrysene	1.46	0.154		mg/Kg-dry	1	6/6/2006 4:58:00 PM
Benzo(b)fluoranthene	ND	0.231		mg/Kg-dry	1	6/6/2006 4:58:00 PM
Benzo(k)fluoranthene	ND	0.154		mg/Kg-dry	1	6/6/2006 4:58:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

CLIENT: Common Sense Envtl Inc **Lab Order:** 0605397
Project: MA Fisheries

EPH TARGET ANALYTES		**MADEP EPH_P (EPH_SPR)**			Analyst: **ZYZ**
Benzo(a)pyrene	ND	0.154	mg/Kg-dry	1	6/6/2006 4:58:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0769	mg/Kg-dry	1	6/6/2006 4:58:00 PM
Dibenz(a,h)anthracene	ND	0.154	mg/Kg-dry	1	6/6/2006 4:58:00 PM
Benzo(g,h,I)perylene	ND	0.154	mg/Kg-dry	1	6/6/2006 4:58:00 PM
Total PAH Target Concentration	11.0	0	mg/Kg-dry	1	6/6/2006 4:58:00 PM
Surr: 2,2'-difluorobiphenyl	69.3	40-140	%REC	1	6/6/2006 4:58:00 PM
Surr: 2-Fluorobiphenyl	66.5	40-140	%REC	1	6/6/2006 4:58:00 PM

ASBESTOS BY PLM		**E600/R-93/116**			Analyst: **SUB**
Asbestos	None Detected	0	%-dry	1	6/4/2006

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

GeoLabs, Inc.

Date: *07-Jun-06*

CLIENT: Common Sense Envtl Inc
Project: MA Fisheries
Lab Order: 0605397

Lab ID: 0605397-016
Collection Date: 5/25/2006
Client Sample ID: TP-3 0-3
Matrix: SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
EPH RANGES		**MADEP EPH**		**(MADEP EPH)**		Analyst: **KH**
Adjusted C11-C22 Aromatics	265	12.0		mg/Kg-dry	1	6/5/2006
C09-C18 Aliphatics	ND	12.0		mg/Kg-dry	1	6/5/2006
C19-C36 Aliphatics	12.7	12.0		mg/Kg-dry	1	6/5/2006
Unadjusted C11-C22 Aromatics	337	12.0		mg/Kg-dry	1	6/5/2006
Surr: 1-Chlorooctadecane	71.0	40-140		%REC	1	6/5/2006
Surr: o-Terphenyl	101	40-140		%REC	1	6/5/2006
POLYCHLORINATED BIPHENYLS		**SW8082**		**(SW3550)**		Analyst: **GP**
Aroclor 1016/1242	ND	60.2		µg/Kg-dry	1	5/31/2006
Aroclor 1221	ND	60.2		µg/Kg-dry	1	5/31/2006
Aroclor 1232	ND	60.2		µg/Kg-dry	1	5/31/2006
Aroclor 1248	ND	60.2		µg/Kg-dry	1	5/31/2006
Aroclor 1254	439	60.2		µg/Kg-dry	1	5/31/2006
Aroclor 1260	ND	60.2		µg/Kg-dry	1	5/31/2006
Aroclor 1262	ND	60.2		µg/Kg-dry	1	5/31/2006
Aroclor 1268	ND	60.2		µg/Kg-dry	1	5/31/2006
Surr: Decachlorobiphenyl Sig 1	128	30-150		%REC	1	5/31/2006
Surr: Decachlorobiphenyl Sig 2	120	30-150		%REC	1	5/31/2006
Surr: Tetrachloro-m-xylene Sig 1	76.0	30-150		%REC	1	5/31/2006
Surr: Tetrachloro-m-xylene Sig 2	86.0	30-150		%REC	1	5/31/2006
METALS, TOTAL		**SW6010B**		**(SW3050B)**		Analyst: **QS**
Lead	256	10.5		mg/Kg-dry	1	6/1/2006
EPH TARGET ANALYTES		**MADEP EPH_P**		**(EPH_SPR)**		Analyst: **ZYZ**
Naphthalene	0.210	0.0602		mg/Kg-dry	1	6/6/2006 5:31:00 PM
2-Methylnaphthalene	ND	0.0602		mg/Kg-dry	1	6/6/2006 5:31:00 PM
Acenaphthene	0.301	0.120		mg/Kg-dry	1	6/6/2006 5:31:00 PM
Phenanthrene	9.35	0.0602		mg/Kg-dry	1	6/6/2006 5:31:00 PM
Acenaphthylene	0.619	0.0602		mg/Kg-dry	1	6/6/2006 5:31:00 PM
Fluorene	0.535	0.0301		mg/Kg-dry	1	6/6/2006 5:31:00 PM
Anthracene	1.60	0.0602		mg/Kg-dry	1	6/6/2006 5:31:00 PM
Fluoranthene	20.7	0.241		mg/Kg-dry	1	6/6/2006 5:31:00 PM
Pyrene	18.3	0.241		mg/Kg-dry	1	6/6/2006 5:31:00 PM
Benzo(a)anthracene	9.85	0.120		mg/Kg-dry	1	6/6/2006 5:31:00 PM
Chrysene	9.87	0.120		mg/Kg-dry	1	6/6/2006 5:31:00 PM
Benzo(b)fluoranthene	ND	0.181		mg/Kg-dry	1	6/6/2006 5:31:00 PM
Benzo(k)fluoranthene	ND	0.120		mg/Kg-dry	1	6/6/2006 5:31:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

CLIENT: Common Sense Envtl Inc **Lab Order:** 0605397
Project: MA Fisheries

EPH TARGET ANALYTES		**MADEP EPH_P**	**(EPH_SPR)**		Analyst: **ZYZ**
Benzo(a)pyrene	ND	0.120	mg/Kg-dry	1	6/6/2006 5:31:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0602	mg/Kg-dry	1	6/6/2006 5:31:00 PM
Dibenz(a,h)anthracene	ND	0.120	mg/Kg-dry	1	6/6/2006 5:31:00 PM
Benzo(g,h,I)perylene	ND	0.120	mg/Kg-dry	1	6/6/2006 5:31:00 PM
Total PAH Target Concentration	71.3	0	mg/Kg-dry	1	6/6/2006 5:31:00 PM
Surr: 2,2'-difluorobiphenyl	63.5	40-140	%REC	1	6/6/2006 5:31:00 PM
Surr: 2-Fluorobiphenyl	61.2	40-140	%REC	1	6/6/2006 5:31:00 PM

ASBESTOS BY PLM		**E600/R-93/116**			Analyst: **SUB**
Asbestos	None Detected	0	%-dry	1	6/4/2006

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GeoLabs, Inc.

Date: *07-Jun-06*

CLIENT: Common Sense Envtl Inc
Project: MA Fisheries
Lab Order: 0605397

Lab ID: 0605397-017
Collection Date: 5/25/2006
Client Sample ID: Duplicate 3
Matrix: SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
EPH RANGES		**MADEP EPH**		**(MADEP EPH)**		Analyst: **KH**
Adjusted C11-C22 Aromatics	486	12.3		mg/Kg-dry	1	6/5/2006
C09-C18 Aliphatics	ND	12.3		mg/Kg-dry	1	6/5/2006
C19-C36 Aliphatics	44.1	12.3		mg/Kg-dry	1	6/5/2006
Unadjusted C11-C22 Aromatics	613	12.3		mg/Kg-dry	1	6/5/2006
Surr: 1-Chlorooctadecane	41.0	40-140		%REC	1	6/5/2006
Surr: o-Terphenyl	82.0	40-140		%REC	1	6/5/2006
EPH TARGET ANALYTES		**MADEP EPH_P**		**(EPH_SPR)**		Analyst: **ZYZ**
Naphthalene	0.185	0.0617		mg/Kg-dry	1	6/6/2006 6:04:00 PM
2-Methylnaphthalene	ND	0.0617		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Acenaphthene	0.827	0.123		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Phenanthrene	21.5	0.0617		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Acenaphthylene	0.731	0.0617		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Fluorene	1.41	0.0309		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Anthracene	3.70	0.0617		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Fluoranthene	33.6	0.247		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Pyrene	33.3	0.247		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Benzo(a)anthracene	15.7	0.123		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Chrysene	16.4	0.123		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Benzo(b)fluoranthene	ND	0.185		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Benzo(k)fluoranthene	ND	0.123		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Benzo(a)pyrene	ND	0.123		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0617		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Dibenz(a,h)anthracene	ND	0.123		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Benzo(g,h,I)perylene	ND	0.123		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Total PAH Target Concentration	127	0		mg/Kg-dry	1	6/6/2006 6:04:00 PM
Surr: 2,2'-difluorobiphenyl	52.6	40-140		%REC	1	6/6/2006 6:04:00 PM
Surr: 2-Fluorobiphenyl	50.9	40-140		%REC	1	6/6/2006 6:04:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GeoLabs, Inc.

Date: *07-Jun-06*

CLIENT: Common Sense Envtl Inc
Project: MA Fisheries
Lab Order: 0605397

Lab ID: 0605397-018
Collection Date: 5/25/2006
Client Sample ID: TP-3 3-6
Matrix: SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
EPH RANGES		**MADEP EPH**		**(MADEP EPH)**		Analyst: **KH**
Adjusted C11-C22 Aromatics	ND	13.3		mg/Kg-dry	1	6/5/2006
C09-C18 Aliphatics	ND	13.3		mg/Kg-dry	1	6/5/2006
C19-C36 Aliphatics	ND	13.3		mg/Kg-dry	1	6/5/2006
Unadjusted C11-C22 Aromatics	ND	13.3		mg/Kg-dry	1	6/5/2006
Surr: 1-Chlorooctadecane	63.0	40-140		%REC	1	6/5/2006
Surr: o-Terphenyl	101	40-140		%REC	1	6/5/2006
METALS, TOTAL		**SW6010B**		**(SW3050B)**		Analyst: **QS**
Lead	25.9	11.2		mg/Kg-dry	1	6/1/2006
EPH TARGET ANALYTES		**MADEP EPH_P**		**(EPH_SPR)**		Analyst: **ZYZ**
Naphthalene	ND	0.0667		mg/Kg-dry	1	6/6/2006 6:37:00 PM
2-Methylnaphthalene	ND	0.0667		mg/Kg-dry	1	6/6/2006 6:37:00 PM
Acenaphthene	ND	0.133		mg/Kg-dry	1	6/6/2006 6:37:00 PM
Phenanthrene	ND	0.0667		mg/Kg-dry	1	6/6/2006 6:37:00 PM
Acenaphthylene	ND	0.0667		mg/Kg-dry	1	6/6/2006 6:37:00 PM
Fluorene	ND	0.0333		mg/Kg-dry	1	6/6/2006 6:37:00 PM
Anthracene	ND	0.0667		mg/Kg-dry	1	6/6/2006 6:37:00 PM
Fluoranthene	ND	0.267		mg/Kg-dry	1	6/6/2006 6:37:00 PM
Pyrene	ND	0.267		mg/Kg-dry	1	6/6/2006 6:37:00 PM
Benzo(a)anthracene	ND	0.133		mg/Kg-dry	1	6/6/2006 6:37:00 PM
Chrysene	ND	0.133		mg/Kg-dry	1	6/6/2006 6:37:00 PM
Benzo(b)fluoranthene	ND	0.200		mg/Kg-dry	1	6/6/2006 6:37:00 PM
Benzo(k)fluoranthene	ND	0.133		mg/Kg-dry	1	6/6/2006 6:37:00 PM
Benzo(a)pyrene	ND	0.133		mg/Kg-dry	1	6/6/2006 6:37:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0667		mg/Kg-dry	1	6/6/2006 6:37:00 PM
Dibenz(a,h)anthracene	ND	0.133		mg/Kg-dry	1	6/6/2006 6:37:00 PM
Benzo(g,h,I)perylene	ND	0.133		mg/Kg-dry	1	6/6/2006 6:37:00 PM
Total PAH Target Concentration	ND	0		mg/Kg-dry	1	6/6/2006 6:37:00 PM
Surr: 2,2'-difluorobiphenyl	61.6	40-140		%REC	1	6/6/2006 6:37:00 PM
Surr: 2-Fluorobiphenyl	61.6	40-140		%REC	1	6/6/2006 6:37:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GeoLabs, Inc.

Date: *07-Jun-06*

CLIENT: Common Sense Envtl Inc
Project: MA Fisheries
Lab Order: 0605397

Lab ID: 0605397-019
Collection Date: 5/25/2006
Client Sample ID: TP-1 0-3
Matrix: SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
EPH RANGES		**MADEP EPH**		**(MADEP EPH)**		Analyst: **KH**
Adjusted C11-C22 Aromatics	12.6	14.5		mg/Kg-dry	1	6/5/2006
C09-C18 Aliphatics	ND	14.5		mg/Kg-dry	1	6/5/2006
C19-C36 Aliphatics	ND	14.5		mg/Kg-dry	1	6/5/2006
Unadjusted C11-C22 Aromatics	ND	14.5		mg/Kg-dry	1	6/5/2006
Surr: 1-Chlorooctadecane	63.0	40-140		%REC	1	6/5/2006
Surr: o-Terphenyl	99.0	40-140		%REC	1	6/5/2006
POLYCHLORINATED BIPHENYLS		**SW8082**		**(SW3550)**		Analyst: **GP**
Aroclor 1016/1242	ND	72.5		µg/Kg-dry	1	5/31/2006
Aroclor 1221	ND	72.5		µg/Kg-dry	1	5/31/2006
Aroclor 1232	ND	72.5		µg/Kg-dry	1	5/31/2006
Aroclor 1248	ND	72.5		µg/Kg-dry	1	5/31/2006
Aroclor 1254	ND	72.5		µg/Kg-dry	1	5/31/2006
Aroclor 1260	ND	72.5		µg/Kg-dry	1	5/31/2006
Aroclor 1262	ND	72.5		µg/Kg-dry	1	5/31/2006
Aroclor 1268	ND	72.5		µg/Kg-dry	1	5/31/2006
Surr: Decachlorobiphenyl Sig 1	70.0	30-150		%REC	1	5/31/2006
Surr: Decachlorobiphenyl Sig 2	76.0	30-150		%REC	1	5/31/2006
Surr: Tetrachloro-m-xylene Sig 1	72.0	30-150		%REC	1	5/31/2006
Surr: Tetrachloro-m-xylene Sig 2	74.0	30-150		%REC	1	5/31/2006
METALS, TOTAL		**SW6010B**		**(SW3050B)**		Analyst: **QS**
Lead	42.1	12.0		mg/Kg-dry	1	6/1/2006
EPH TARGET ANALYTES		**MADEP EPH_P**		**(EPH_SPR)**		Analyst: **ZYZ**
Naphthalene	ND	0.0725		mg/Kg-dry	1	6/6/2006 7:10:00 PM
2-Methylnaphthalene	ND	0.0725		mg/Kg-dry	1	6/6/2006 7:10:00 PM
Acenaphthene	ND	0.145		mg/Kg-dry	1	6/6/2006 7:10:00 PM
Phenanthrene	0.380	0.0725		mg/Kg-dry	1	6/6/2006 7:10:00 PM
Acenaphthylene	ND	0.0725		mg/Kg-dry	1	6/6/2006 7:10:00 PM
Fluorene	ND	0.0362		mg/Kg-dry	1	6/6/2006 7:10:00 PM
Anthracene	ND	0.0725		mg/Kg-dry	1	6/6/2006 7:10:00 PM
Fluoranthene	0.357	0.290		mg/Kg-dry	1	6/6/2006 7:10:00 PM
Pyrene	0.304	0.290		mg/Kg-dry	1	6/6/2006 7:10:00 PM
Benzo(a)anthracene	0.186	0.145		mg/Kg-dry	1	6/6/2006 7:10:00 PM
Chrysene	0.275	0.145		mg/Kg-dry	1	6/6/2006 7:10:00 PM
Benzo(b)fluoranthene	ND	0.217		mg/Kg-dry	1	6/6/2006 7:10:00 PM
Benzo(k)fluoranthene	ND	0.145		mg/Kg-dry	1	6/6/2006 7:10:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

CLIENT: Common Sense Envtl Inc **Lab Order:** 0605397
Project: MA Fisheries

EPH TARGET ANALYTES		**MADEP EPH_P (EPH_SPR)**			Analyst: **ZYZ**
Benzo(a)pyrene	ND	0.145	mg/Kg-dry	1	6/6/2006 7:10:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0725	mg/Kg-dry	1	6/6/2006 7:10:00 PM
Dibenz(a,h)anthracene	ND	0.145	mg/Kg-dry	1	6/6/2006 7:10:00 PM
Benzo(g,h,I)perylene	ND	0.145	mg/Kg-dry	1	6/6/2006 7:10:00 PM
Total PAH Target Concentration	1.50	0	mg/Kg-dry	1	6/6/2006 7:10:00 PM
Surr: 2,2'-difluorobiphenyl	71.3	40-140	%REC	1	6/6/2006 7:10:00 PM
Surr: 2-Fluorobiphenyl	68.6	40-140	%REC	1	6/6/2006 7:10:00 PM

ASBESTOS BY PLM		**E600/R-93/116**			Analyst: **SUB**
Asbestos	None Detected	0	%-dry	1	6/4/2006

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GeoLabs, Inc.

Date: *07-Jun-06*

CLIENT: Common Sense Envtl Inc
Project: MA Fisheries
Lab Order: 0605397

Lab ID: 0605397-020
Collection Date: 5/25/2006
Client Sample ID: TP-1 3-6
Matrix: SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
EPH RANGES		**MADEP EPH**		**(MADEP EPH)**		Analyst: **KH**
Adjusted C11-C22 Aromatics	ND	13.2		mg/Kg-dry	1	6/5/2006
C09-C18 Aliphatics	ND	13.2		mg/Kg-dry	1	6/5/2006
C19-C36 Aliphatics	ND	13.2		mg/Kg-dry	1	6/5/2006
Unadjusted C11-C22 Aromatics	ND	13.2		mg/Kg-dry	1	6/5/2006
Surr: 1-Chlorooctadecane	55.0	40-140		%REC	1	6/5/2006
Surr: o-Terphenyl	96.0	40-140		%REC	1	6/5/2006
METALS, TOTAL		**SW6010B**		**(SW3050B)**		Analyst: **QS**
Lead	ND	11.4		mg/Kg-dry	1	6/1/2006
EPH TARGET ANALYTES		**MADEP EPH_P**		**(EPH_SPR)**		Analyst: **ZYZ**
Naphthalene	ND	0.0658		mg/Kg-dry	1	6/6/2006 7:43:00 PM
2-Methylnaphthalene	ND	0.0658		mg/Kg-dry	1	6/6/2006 7:43:00 PM
Acenaphthene	ND	0.132		mg/Kg-dry	1	6/6/2006 7:43:00 PM
Phenanthrene	ND	0.0658		mg/Kg-dry	1	6/6/2006 7:43:00 PM
Acenaphthylene	ND	0.0658		mg/Kg-dry	1	6/6/2006 7:43:00 PM
Fluorene	ND	0.0329		mg/Kg-dry	1	6/6/2006 7:43:00 PM
Anthracene	ND	0.0658		mg/Kg-dry	1	6/6/2006 7:43:00 PM
Fluoranthene	ND	0.263		mg/Kg-dry	1	6/6/2006 7:43:00 PM
Pyrene	ND	0.263		mg/Kg-dry	1	6/6/2006 7:43:00 PM
Benzo(a)anthracene	ND	0.132		mg/Kg-dry	1	6/6/2006 7:43:00 PM
Chrysene	ND	0.132		mg/Kg-dry	1	6/6/2006 7:43:00 PM
Benzo(b)fluoranthene	ND	0.197		mg/Kg-dry	1	6/6/2006 7:43:00 PM
Benzo(k)fluoranthene	ND	0.132		mg/Kg-dry	1	6/6/2006 7:43:00 PM
Benzo(a)pyrene	ND	0.132		mg/Kg-dry	1	6/6/2006 7:43:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0658		mg/Kg-dry	1	6/6/2006 7:43:00 PM
Dibenz(a,h)anthracene	ND	0.132		mg/Kg-dry	1	6/6/2006 7:43:00 PM
Benzo(g,h,I)perylene	ND	0.132		mg/Kg-dry	1	6/6/2006 7:43:00 PM
Total PAH Target Concentration	ND	0		mg/Kg-dry	1	6/6/2006 7:43:00 PM
Surr: 2,2'-difluorobiphenyl	65.8	40-140		%REC	1	6/6/2006 7:43:00 PM
Surr: 2-Fluorobiphenyl	63.6	40-140		%REC	1	6/6/2006 7:43:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GeoLabs, Inc.

Date: *07-Jun-06*

CLIENT: Common Sense Envtl Inc
Project: MA Fisheries
Lab Order: 0605397

Lab ID: 0605397-021
Collection Date: 5/25/2006
Client Sample ID: Duplicate 4
Matrix: SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
EPH RANGES		**MADEP EPH**		**(MADEP EPH)**		Analyst: **KH**
Adjusted C11-C22 Aromatics	ND	13.0		mg/Kg-dry	1	6/5/2006
C09-C18 Aliphatics	ND	13.0		mg/Kg-dry	1	6/5/2006
C19-C36 Aliphatics	ND	13.0		mg/Kg-dry	1	6/5/2006
Unadjusted C11-C22 Aromatics	ND	13.0		mg/Kg-dry	1	6/5/2006
Surr: 1-Chlorooctadecane	67.0	40-140		%REC	1	6/5/2006
Surr: o-Terphenyl	85.0	40-140		%REC	1	6/5/2006
EPH TARGET ANALYTES		**MADEP EPH_P**		**(EPH_SPR)**		Analyst: **ZYZ**
Naphthalene	ND	0.0649		mg/Kg-dry	1	6/6/2006 2:10:00 PM
2-Methylnaphthalene	ND	0.0649		mg/Kg-dry	1	6/6/2006 2:10:00 PM
Acenaphthene	ND	0.130		mg/Kg-dry	1	6/6/2006 2:10:00 PM
Phenanthrene	ND	0.0649		mg/Kg-dry	1	6/6/2006 2:10:00 PM
Acenaphthylene	ND	0.0649		mg/Kg-dry	1	6/6/2006 2:10:00 PM
Fluorene	ND	0.0325		mg/Kg-dry	1	6/6/2006 2:10:00 PM
Anthracene	ND	0.0649		mg/Kg-dry	1	6/6/2006 2:10:00 PM
Fluoranthene	ND	0.260		mg/Kg-dry	1	6/6/2006 2:10:00 PM
Pyrene	ND	0.260		mg/Kg-dry	1	6/6/2006 2:10:00 PM
Benzo(a)anthracene	ND	0.130		mg/Kg-dry	1	6/6/2006 2:10:00 PM
Chrysene	ND	0.130		mg/Kg-dry	1	6/6/2006 2:10:00 PM
Benzo(b)fluoranthene	ND	0.195		mg/Kg-dry	1	6/6/2006 2:10:00 PM
Benzo(k)fluoranthene	ND	0.130		mg/Kg-dry	1	6/6/2006 2:10:00 PM
Benzo(a)pyrene	ND	0.130		mg/Kg-dry	1	6/6/2006 2:10:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0649		mg/Kg-dry	1	6/6/2006 2:10:00 PM
Dibenz(a,h)anthracene	ND	0.130		mg/Kg-dry	1	6/6/2006 2:10:00 PM
Benzo(g,h,I)perylene	ND	0.130		mg/Kg-dry	1	6/6/2006 2:10:00 PM
Total PAH Target Concentration	ND	0		mg/Kg-dry	1	6/6/2006 2:10:00 PM
Surr: 2,2'-difluorobiphenyl	68.0	40-140		%REC	1	6/6/2006 2:10:00 PM
Surr: 2-Fluorobiphenyl	65.4	40-140		%REC	1	6/6/2006 2:10:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

CHAIN OF CUSTODY

GeoLabs CHAIN NUMBER: 0605397 (SR)

CHECKED ITEMS MUST BE FILLED IN

24/48 HOUR RUSHES ONLY WITH APPROVAL OF D. KAHLER OR LAB DIRECTOR

GeoLabs, Inc.
Environmental Laboratories
45 Johnson Lane
Braintree, MA 02184
Office: 781-848-7844
Fax: 781-848-7811

Turnaround Time

RUSH: 24-48hrs ☐ 72hrs ☐ *STANDARD:* 5 Days ____

RUSH APPROVED BY: X ____

Page 1 of 3

SPECIAL INSTRUCTIONS: RCS-I

Note: JOBS WITH INCOMPLETELY FILLED OUT CHAINS WILL NOT BE RUN. CHAIN WILL BE RETURNED TO CLIENT FOR COMPLETION

TYPE OF CLIENT: BUS X LAB ____ HOMEOWNER ____ | NOTE: HOMEOWNERS, LAW FIRMS MUST PAY WHEN DROPPING OFF SAMPLES

Client: X Commen Sense Inc.
Address: X 50 Theresa St NO P.O. BOXES
South Dartmouth, MA 02748
Phone: X 508-991-3491
Fax: 508-992-5039
Contact: X Cynthia Gilchrest
E-mail: csense@empire.net

Project Number: X MA Fisheries
Project Location: X 16 Blackmer St. New Bedford, MA
Purchase Order #:
Collected By: X Cynthia Gilchrest

CHANGES REQUESTED? Y N
BY DATE
Received on ice? ☐

ANALYSES REQUESTED

SAMPLE ID	COLLECTION DATE	TIME	SAMPLED BY	SAMPLE LOCATION	CONTAINER TYPE	QUANT	MATRIX	COMP	GRAB	PRES	GEOLABS SAMPLE NUMBER	Total Lead	EPH/PAHs	PCBs	ACM					TEMPERATURE	LABPH
	5/25/06		CSG	BH6 0-2.5	A	1	S		X	—	05397-001	X	X								
				BH6 0-2.5	A	1	S		X	—	05397-002				X						
				BH6 2.5-5.0	A	1	S		X	—	05397-003	X	X								
				BH6 5.0-7.5	A	1	S		X	—	05397-004	X									
				BH1 0-2.5	A	1	S		X	—	05397-005	X	X	X							
				BH1 2.5-5.0	A	1	S		X	—	05397-006	X	X	X							
				Duplicate 1	A	1	S		X	—	05397-007	X									
				BH1 5-7.5	A	1	S		X	—	05397-008	X									

Verbal results given to ____ by (date/initial)

MATRIX CODES:
GW = Ground Water
WW = Wastewater
DW = Drinking Water
SL = Sludge
S = Soil A = Air
O = Oil OT = Other

CONTAINER CODES:
A = Amber B = Bag
G = Glass P = Plastic
S = Summa Canister
O = Other V = VOA

PRESERVATIVE CODES:
1 = HCl 5 = NaOH
2 = HNO_3 6 = MeOH
3 = H_2SO_4 7 = ICE
4 = $Na_2S_2O_3$

Terms: Payment due within 30 days unless other arrangements are made.
Past due balances subject to interest and collection costs.

Relinquished By:	Date/Time	Received By:	Date/Time
PRINT Cynthia Gilchrest	5/25/06	[signature]	5/26/06
Relinquished By: [signature]		Received By:	
Relinquished By: [signature]	5/26/06 1150	Received By GeoLabs: C. Johnson	1350 5/26/06

CHAIN OF CUSTODY

GeoLabs CHAIN NUMBER: 0605397 (DTC)

CHECKED ITEMS MUST BE FILLED IN

24/48 HOUR RUSHES ONLY WITH APPROVAL OF D. KAHLER OR LAB DIRECTOR

GeoLabs, Inc.
Environmental Laboratories
45 Johnson Lane
Braintree, MA 02184
Office: 781-848-7844
Fax: 781-848-7811

Turnaround Time

RUSH: 24-48hrs ☐ 72hrs ☐ STANDARD: 5 Days X

RUSH APPROVED BY: X

Page 2 of 3

SPECIAL INSTRUCTIONS: RCS-1

Note: JOBS WITH INCOMPLETELY FILLED OUT CHAINS WILL NOT BE RUN. CHAIN WILL BE RETURNED TO CLIENT FOR COMPLETION

TYPE OF CLIENT: BUS X LAB ____ HOMEOWNER ____ NOTE: HOMEOWNERS, LAW FIRMS MUST PAY WHEN DROPPING OFF SAMPLES

Client: X Common Sense Env.
Address: X 50 Theresa St NO P.O. BOXES
S. Dartmouth, MA 02748
Phone: X 508-991-3491
Fax: 508-992-5039
Contact: X Cynthia G.
E-mail: CSense@empire.net

Project Number: X MA Fisheries
Project Location: X 16 Blackmer St. New Bedford, MA
Purchase Order #:
Collected By: X Cynthia G.

CHANGES REQUESTED? Y N
BY DATE

Received on ice? ☐

ANALYSES REQUESTED

SAMPLE ID	COLLECTION DATE	TIME	SAMPLED BY	SAMPLE LOCATION	CONTAINER TYPE	QUANT	MATRIX	COMP	GRAB	PRES	GEOLABS SAMPLE NUMBER	Total Lead	PCBs	EPH/VPH	ACM					TEMPERATURE	LABpH
	5/25/06		CSG	BH2 0-2.5	A	1	S		X	—	05397-009	X									
				BH2 2.5-4	A	1	S		X	—	05397-010	X	X	X							
				BH2 2.5-4	A	1	S		X	—	05397-011				X						
				Duplicate 2	A	1	S		X	—	05397-012	X									
				BH2 4-6.5	A	1	S		X	—	05397-013	X		X							
				TP-2 0-3	A	1	S		X	—	05397-014	X		X							
				TP-2 3-6	A	1	S		X	—	05397-015	X	X	X	X						
				TP3 0-3	A	1	S		X	—	05397-016	X	X	X	X						

Verbal results given to by (date/initial)

MATRIX CODES:	CONTAINER CODES:	PRESERVATIVE CODES:	Relinquished By: Date/Time	Received By: Date/Time:
GW = Ground Water	A = Amber B = Bag	1 = HCl 5 = NaOH	5/26/06 PRINT: Cynthia Calchvest	
WW = Wastewater	G = Glass P = Plastic	2 = HNO_3 6 = MeOH		
DW = Drinking Water	S = Summa Canister	3 = H_2SO_4 7 = ICE	Relinquished By:	Received By:
SL = Sludge	O = Other V = VOA	4 = $Na_2S_2O_3$		
S = Soil A = Air	Terms: Payment due within 30 days unless other arrangements are made.		Relinquished By: 5/26/06 1:50	Received By GeoLabs: 1350 5/26/06
O = Oil OT = Other	Past due balances subject to interest and collection costs.			

CHAIN OF CUSTODY

GeoLabs CHAIN NUMBER: 0605397 (DR)

CHECKED ITEMS MUST BE FILLED IN

24/48 HOUR RUSHES ONLY WITH APPROVAL OF D. KAHLER OR LAB DIRECTOR

GeoLabs, Inc.
Environmental Laboratories
45 Johnson Lane
Braintree, MA 02184
Office: 781-848-7844
Fax: 781-848-7811

Turnaround Time
RUSH: 24-48hrs ☐ 72hrs ☐ STANDARD: 5 Days X
RUSH APPROVED BY: X

Page 3 of 3

SPECIAL INSTRUCTIONS: RCS-1

Note: JOBS WITH INCOMPLETELY FILLED OUT CHAINS WILL NOT BE RUN. CHAIN WILL BE RETURNED TO CLIENT FOR COMPLETION

TYPE OF CLIENT: BUS X LAB ____ HOMEOWNER ____ | NOTE: HOMEOWNERS, LAW FIRMS MUST PAY WHEN DROPPING OFF SAMPLES

Client: X Common Sense Inc.
Address: X 50 Thresa St NO P.O. BOXES
S. Dartmouth, MA 02748
Phone: X 508-991-3491
Fax: 508-992-5039
Contact: X Cynthia Ciekurst
E-mail: csense@empire.net

Project Number: X MA Fisheries
Project Location: X 16 Blackman St. New Bedford, MA
Purchase Order #:
Collected By: X Cynthia C.

CHANGES REQUESTED? Y N
BY DATE
Received on ice?

ANALYSES REQUESTED

SAMPLE ID	COLLECTION DATE	TIME	SAMPLED BY	SAMPLE LOCATION	CONTAINER TYPE	QUANT	MATRIX	COMP	GRAB	PRES	GEOLABS SAMPLE NUMBER	EPH/PAH	Total Lead	ACM	PCBs					TEMPERATURE	LAB pH
	5/25/06		CSC	Duplicate 3	A	1	S		X	—	05397-017	X									
	↓		↓	TP3 3-6	A	1	S		X	—	05397-018	X	X								
				TP1 0-3	A	1	S		X	—	05397-019	X	X	X	X						
				TP7 3-6	A	1	S		X	—	05397-020	X	X								
				Duplicate 4	A	1	S		X	—	05397-021	X									

Cynthia Ciekurst 5/25/06

Verbal results given to by (date/initial)

MATRIX CODES:	CONTAINER CODES:	PRESERVATIVE CODES:
GW = Ground Water	A = Amber B = Bag	1 = HCl 5 = NaOH
WW = Wastewater	G = Glass P = Plastic	2 = HNO_3 6 = MeOH
DW = Drinking Water	S = Summa Canister	3 = H_2SO_4 7 = ICE
SL = Sludge	O = Other V = VOA	4 = $Na_2S_2O_3$
S = Soil A = Air		
O = Oil OT = Other		

Terms: Payment due within 30 days unless other arrangements are made.
Past due balances subject to interest and collection costs.

Relinquished By:	Date/Time	Received By:	Date/Time
PRINT Cynthia Ciekurst	5/25/06	[illegible]	5/25/06
Relinquished By: Cynthia Ciekurst		Received By:	
Relinquished By: [illegible]	5/26/06 1:50	Received By GeoLabs: C Johnson	1350 5/26/06

Thursday, June 08, 2006

GeoLabs, Inc.
45 Johnson Lane
Braintree MA 02184
Tele: 781 848 7844
Fax: 781 848 7811

Cynthia Gilchrest
Common Sense Envtl Inc
50 Theresa Street
South Dartmouth, MA 02748

TEL: (508) 991-3491
FAX: (508) 992-5039

Project: MA Fisheries
Location:

Order No.: 0606073

Dear Cynthia Gilchrest:

GeoLabs, Inc. received 1 sample(s) on 6/7/2006 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Jim Chen
Laboratory Director

GeoLabs, Inc.

Date: *08-Jun-06*

CLIENT: Common Sense Envtl Inc
Project: MA Fisheries

Lab Order: 0606073

Lab ID: 0606073-001
Client Sample ID: BH6 2.5-5.0

Collection Date: 5/25/2006
Matrix: SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS		**SW8082**		**(SW3550)**		Analyst: **GP**
Aroclor 1016/1242	ND	62.5		µg/Kg-dry	1	6/7/2006
Aroclor 1221	ND	62.5		µg/Kg-dry	1	6/7/2006
Aroclor 1232	ND	62.5		µg/Kg-dry	1	6/7/2006
Aroclor 1248	ND	62.5		µg/Kg-dry	1	6/7/2006
Aroclor 1254	ND	62.5		µg/Kg-dry	1	6/7/2006
Aroclor 1260	ND	62.5		µg/Kg-dry	1	6/7/2006
Aroclor 1262	ND	62.5		µg/Kg-dry	1	6/7/2006
Aroclor 1268	ND	62.5		µg/Kg-dry	1	6/7/2006
Surr: Decachlorobiphenyl Sig 1	118	30-150		%REC	1	6/7/2006
Surr: Decachlorobiphenyl Sig 2	90.0	30-150		%REC	1	6/7/2006
Surr: Tetrachloro-m-xylene Sig 1	72.0	30-150		%REC	1	6/7/2006
Surr: Tetrachloro-m-xylene Sig 2	68.0	30-150		%REC	1	6/7/2006

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

CHAIN OF CUSTODY

GeoLabs CHAIN NUMBER: 0606073 (PB)

CHECKED ITEMS MUST BE FILLED IN

24/48 HOUR RUSHES ONLY WITH APPROVAL OF D. KAHLER OR LAB DIRECTOR

GeoLabs, Inc.
Environmental Laboratories
45 Johnson Lane
Braintree, MA 02184
Office: 781-848-7844
Fax: 781-848-7811

Turnaround Time

RUSH: 24-48hrs ☐ 72hrs ☐ *STANDARD:* 5 Days____

RUSH APPROVED BY: X_____

Page____of____

SPECIAL INSTRUCTIONS

relog of 0605397-003

Note: JOBS WITH INCOMPLETELY FILLED OUT CHAINS WILL NOT BE RUN. CHAIN WILL BE RETURNED TO CLIENT FOR COMPLETION

TYPE OF CLIENT: BUS ___ LAB ___ HOMEOWNER ___ | NOTE: HOMEOWNERS, LAW FIRMS MUST PAY WHEN DROPPING OFF SAMPLES

Client: X
Address: X NO P.O. BOXES
~~Common Sense Environmental~~
~~50 Theresa Street~~
Phone: X ~~South Dartmouth, MA 02748~~
Fax: ~~(508) 991-3491~~
Contact: X
E-mail:

Project Number: X MA Fisheries
Project Location: X
Purchase Order #:
Collected By: X

CHANGES REQUESTED? (Y) N
BY Cynthia DATE 6/7/06
If you still have the sample please run PCBs
Received on Ice? ☐

ANALYSES REQUESTED

SAMPLE ID	COLLECTION DATE	COLLECTION TIME	COLLECTION SAMPLED BY	SAMPLE LOCATION	CONTAINER TYPE	CONTAINER QUANT	MATRIX	COMP	GRAB	PRES	GEOLABS SAMPLE NUMBER			PCBs						TEMPERATURE	LAB pH
	5/25/06			BH6 25-50	A	1	S		X	7	06073-001			X							
		BH1-25x																			

Verbal results given to by (date/initial)

MATRIX CODES:	CONTAINER CODES:	PRESERVATIVE CODES:	Relinquished By:	Date/Time	Received By:	Date/Time:
GW = Ground Water	A = Amber B = Bag	1 = HCl 5 = NaOH		5/25/06		
WW = Wastewater	G = Glass P = Plastic	2 = HNO_3 6 = MeOH	PRINT:			
DW = Drinking Water	S = Summa Canister	3 = H_2SO_4 7 = ICE	Relinquished By:		Received By:	
SL = Sludge	O = Other V = VOA	4 = $Na_2S_2O_3$				
S = Soil A = Air	Terms: Payment due within 30 days unless other arrangements are made.		Relinquished By:		Received By GeoLabs: Danielle Rega	6/7/06 10:45a
O = Oil OT = Other	Past due balances subject to interest and collection costs.					

p.1
508 992 5039
Cynthia Gilchrest
Jun 07 06 10:45a

Common Sense Environmental, Inc.
50 Theresa Street
South Dartmouth, MA 02748

Attention: Cynthia Gilchrest
STL Job #: 760-605-0113 June 5, 2006
Billing Ref.: Project# BH2, TP-1, BH6

Dear Cynthia:

Please find enclosed five (5) PLM digital photomicrographs, five (5) SEM digital photomicrographs and five (5) EDX spectra of the black material detected in the samples submitted for coal/coal flyash identification by SEM/EDX and PLM.

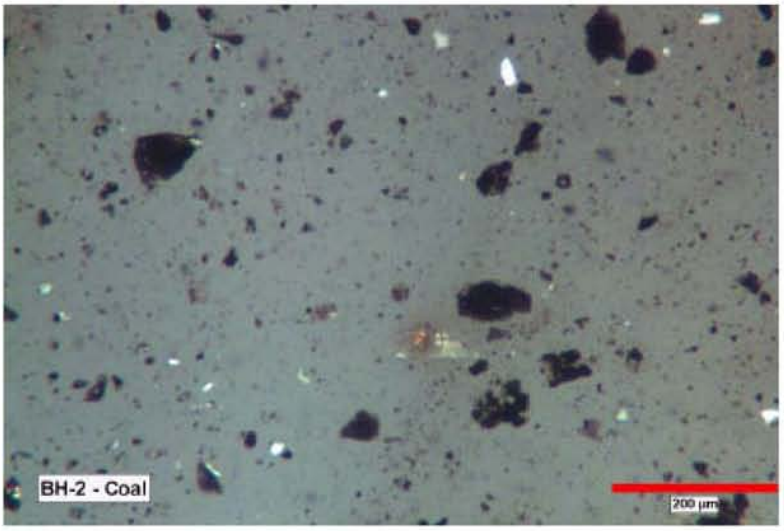
METHODS:

A portion of the samples were dried in a drying oven to remove moisture and then examined under a stereomicroscope. Several black grains, consistent in appearance to coal or coal flyash, were picked out of the dried soil samples. The black grains were ground into a powder with a mortar and pestle and mounted in index of refraction liquid (n=1.605) on a glass slide for the Polarized Light Microscope (PLM) examination. Another portion of these black grains were mounted on double-sided tape and coated with evaporated graphite, which improves image quality. The samples were then examined under a Scanning Electron Microscope (SEM). An Energy Dispersive X-Ray (EDX) analysis was conducted during the SEM examination of these grains to determine their elemental composition. Photomicrographs were taken of the samples both by PLM and by SEM to document the morphology of the grains.

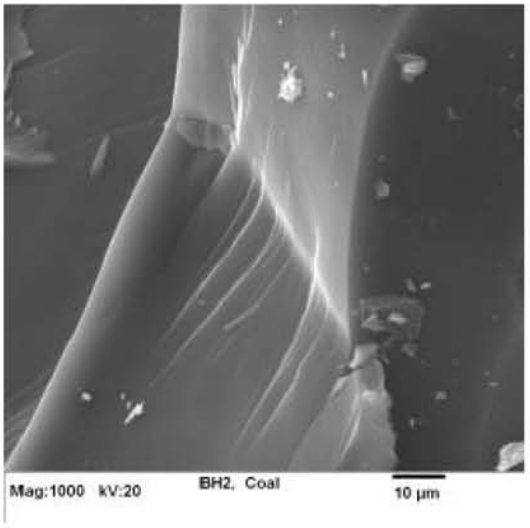
FINDINGS:

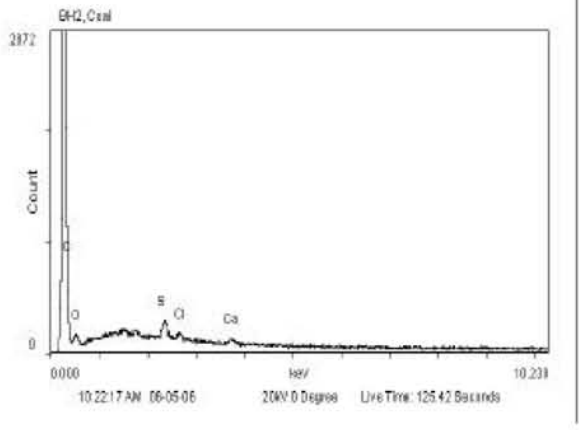
BH2 4-6.5':

Please refer to the PLM and SEM photomicrographs as well as the EDX spectra. Two types of suspect particles were found in the first sample. The first particle type showed irregularly shaped opaque grains with an amber to black color and smooth surface features. When ground in the mortar and pestle these grains were soft in texture. The particles did not dissolve in the index of refraction oil under PLM examination, and showed mineral-like fragments with both rounded and sharp edges.

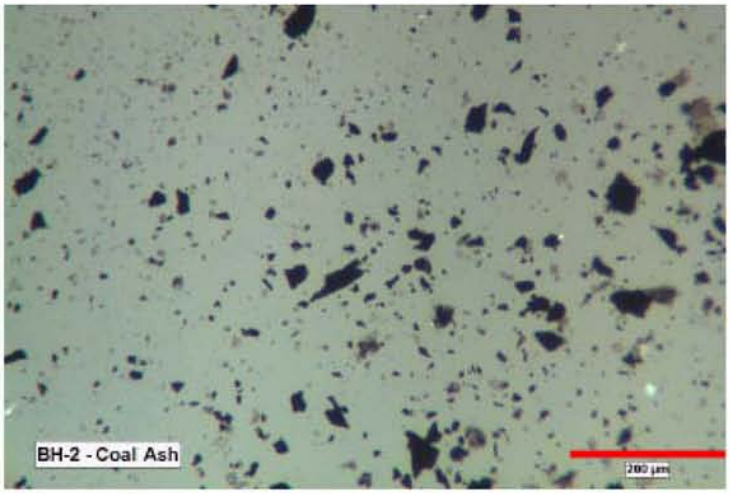


SEM examination found the suspect particles to have smooth surfaces marked by sharp, curved glass-like edges with evidence of conchoidal fracture patterns along the surface of the sample. EDX examination of the elemental composition of these particles showed a very strong carbon peak, with a moderate to low concentration of sulfur, and minor levels of oxygen, chlorine and calcium. The morphology and chemical composition of these particles matches bituminous coal.

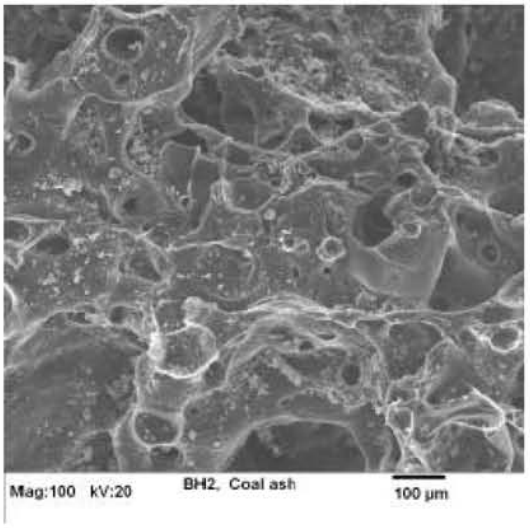


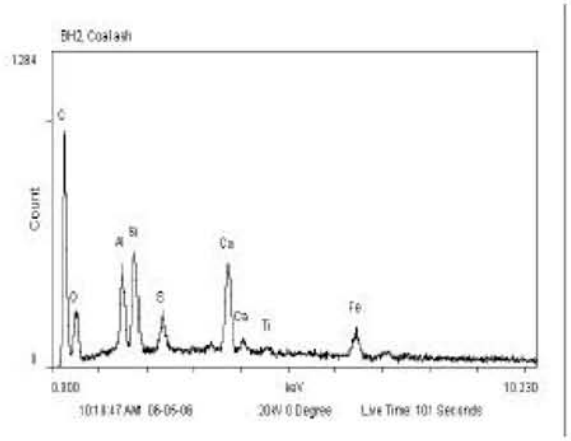


The second particle type showed irregular curved opaque, gray-black grains covered with craters. The particles did not dissolve in the index of refraction oil under PLM examination.



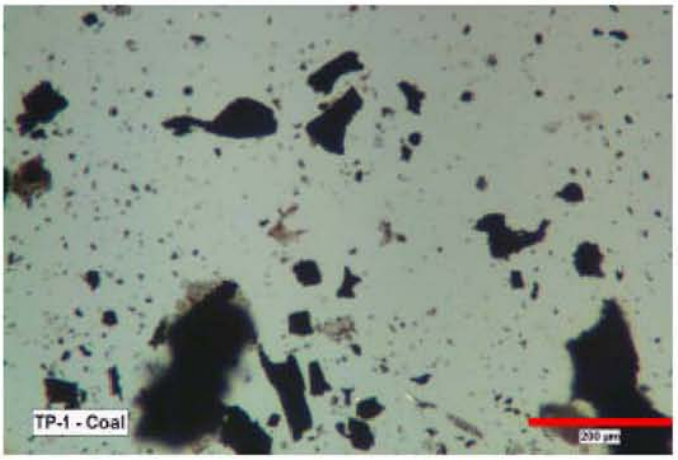
SEM analysis of the grains found them to have a rough surface texture heavily marked by air pits and craters. The EDX examination demonstrated a strong peak height of carbon, moderate concentrations of aluminum, silicon and calcium, with lower peaks of oxygen, sulfur, titanium and iron. The appearance and chemical composition of this sample is consistent for coal ash.



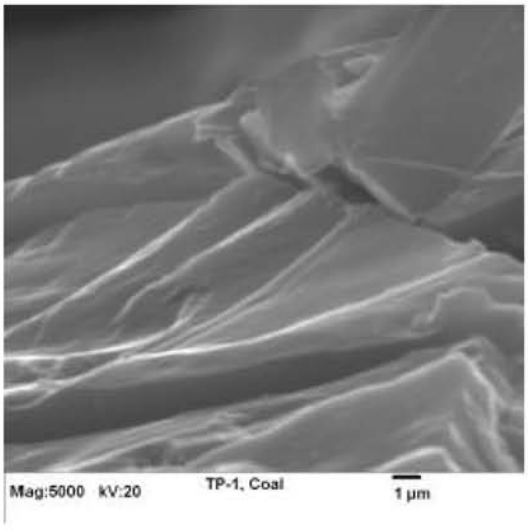


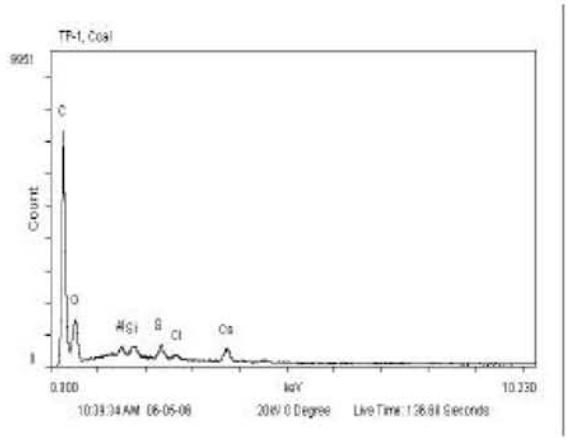
TP-1 0-3':

Two types of dark suspect particles were identified in this sample. The first particle type showed irregularly shaped opaque grains with a brown-black color. When ground in the mortar and pestle these grains were soft in texture. The particles did not dissolve in the refractive index oil under PLM examination, showing both rounded and sharp edged fragments.

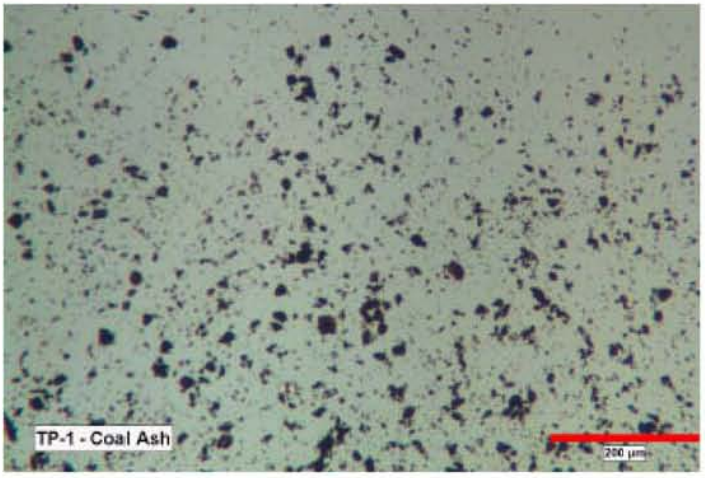


Under the SEM the particles demonstrated smooth surfaces characterized by curved edges and evidence of conchoidal fracture patterns along the surface. The average chemical composition exhibited a very strong carbon peak, with lower concentrations of oxygen, aluminum, silicon, sulfur, chlorine and calcium. The morphology and chemical composition of these particles matches bituminous coal.

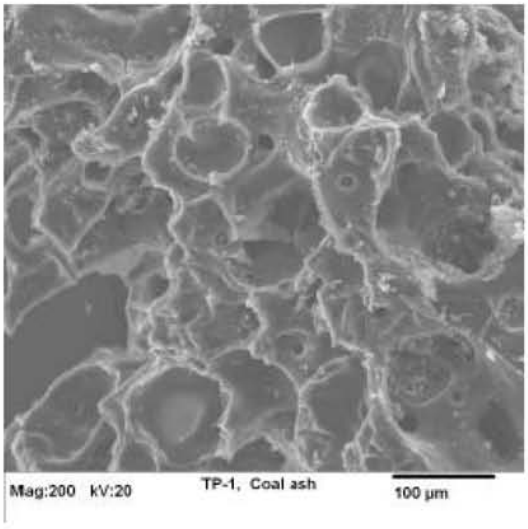


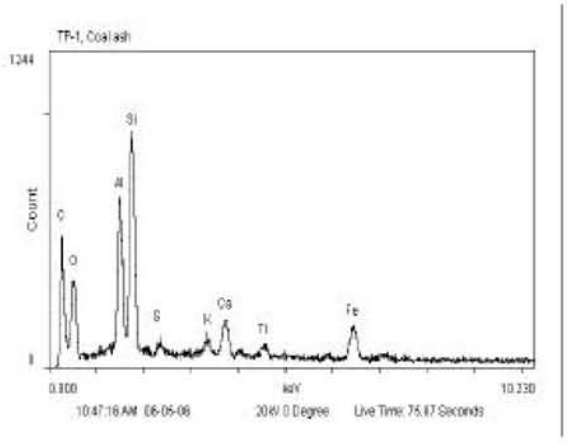


The second type of dark suspect particle showed irregular curved opaque grains. The particles did not dissolve in the index of refraction oil under PLM examination.



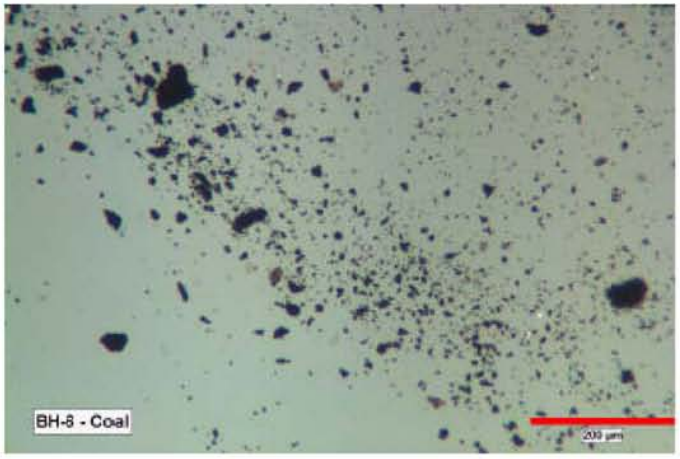
SEM examination shows that this material has a surface covered with pits, craters and air holes. The EDX spectrum exhibits strong peak concentrations of carbon, aluminum and silicon, with lower amounts of oxygen, sulfur, potassium, calcium, titanium and iron. The morphology and chemical composition of these grains are consistent with coal ash.



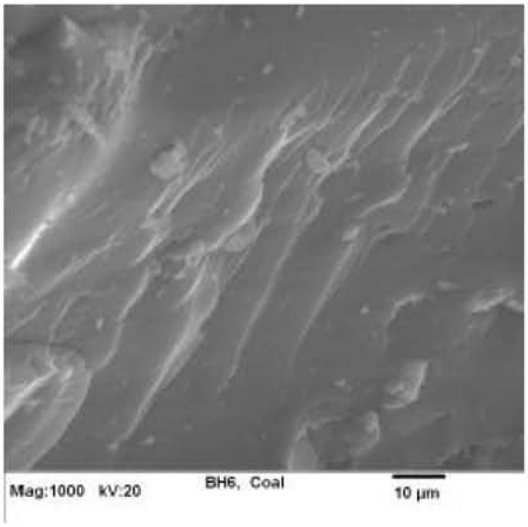


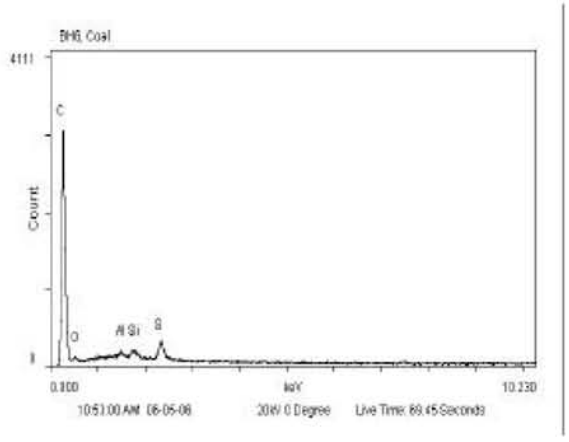
BH6 2.5-5':

Only one suspect particle type was observed in this sample. The particles showed irregularly shaped brown opaque grains smooth surface features. When ground in the mortar and pestle these grains were soft in texture. The particles did not dissolve in the index of refraction oil under PLM examination.



SEM examination demonstrated smooth surfaces marked by sharp, curved conchoidal fracture patterns along the surface of the sample. The EDX spectrum shows a very strong peak concentration of carbon, moderate to low peak concentration of sulfur, with lower amounts of oxygen, aluminum and silicon. The morphology and chemical composition of these grains are consistent with bituminous coal.





DISCUSSION:

The EDX data, texture and morphology of the grains as seen by the PLM and SEM in sample BH2 was consistent for a moderate concentration of bituminous coal and a heavy loading of coal ash.

Sample TP-1 contained a moderate to heavy loading of bituminous coal, and a heavy concentration of coal ash.

There was a moderate concentration of bituminous coal in sample BH6 along with some slag.

If you have further questions or need additional information, please contact client services or me at any time.

Sincerely,

Ernest T. Dobi

Ernest T. Dobi, Ph.D
Manager, Microscopy Services

Friday, June 16, 2006

GeoLabs, Inc.
45 Johnson Lane
Braintree MA 02184
Tele: 781 848 7844
Fax: 781 848 7811

Cynthia Gilchrest
Common Sense Envtl Inc
50 Theresa Street
South Dartmouth, MA 02748

TEL: (508) 991-3491
FAX: (508) 992-5039

Project: 16 Blackmer St
Location: New Bedford, MA

Order No.: 0606150

Dear Cynthia Gilchrest:

GeoLabs, Inc. received 4 sample(s) on 6/13/2006 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Jim Chen
Laboratory Director

GeoLabs, Inc.

Date: *16-Jun-06*

CLIENT: Common Sense Envtl Inc
Project: 16 Blackmer St
Lab Order: 0606150

Lab ID: 0606150-001
Client Sample ID: BH6A 2.5-6.0
Collection Date: 6/12/2006 2:00:00 PM
Matrix: SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
IGNITABILITY		**SW1010**				Analyst: **AMS**
Ignitability	>100	20		°C	1	6/14/2006
TOTAL PETROLEUM HYDROCARBONS		**8100M**		**(8100M)**		Analyst: **KH**
Total Petroleum Hydrocarbons	456	5.81		mg/Kg-dry	1	6/13/2006
Surr: o-terphenyl	125	40-140		%REC	1	6/13/2006
POLYCHLORINATED BIPHENYLS		**SW8082**		**(SW3550)**		Analyst: **GP**
Aroclor 1016/1242	ND	58.1		µg/Kg-dry	1	6/14/2006
Aroclor 1221	ND	58.1		µg/Kg-dry	1	6/14/2006
Aroclor 1232	ND	58.1		µg/Kg-dry	1	6/14/2006
Aroclor 1248	ND	58.1		µg/Kg-dry	1	6/14/2006
Aroclor 1254	191	58.1		µg/Kg-dry	1	6/14/2006
Aroclor 1260	ND	58.1		µg/Kg-dry	1	6/14/2006
Aroclor 1262	ND	58.1		µg/Kg-dry	1	6/14/2006
Aroclor 1268	ND	58.1		µg/Kg-dry	1	6/14/2006
Surr: Decachlorobiphenyl Sig 1	108	30-150		%REC	1	6/14/2006
Surr: Decachlorobiphenyl Sig 2	82.0	30-150		%REC	1	6/14/2006
Surr: Tetrachloro-m-xylene Sig 1	56.0	30-150		%REC	1	6/14/2006
Surr: Tetrachloro-m-xylene Sig 2	62.0	30-150		%REC	1	6/14/2006
METALS, TOTAL		**SW6010B**		**(SW3050B)**		Analyst: **QS**
Arsenic	ND	10.0		mg/Kg-dry	1	6/14/2006
Cadmium	ND	6.86		mg/Kg-dry	1	6/14/2006
Chromium	15.2	7.97		mg/Kg-dry	1	6/14/2006
Lead	550	10.1	*	mg/Kg-dry	1	6/14/2006
MERCURY		**SW 7471A**		**(SW7471A)**		Analyst: **BF**
Mercury	3.08	0.106		mg/Kg-dry	1	6/14/2006
TCLP LEAD		**6010b**		**(SW1311/3010A)**		Analyst: **QS**
Lead	0.799	0.0150		mg/L	1	6/14/2006
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**				Analyst: **MR**
1,1,1,2-Tetrachloroethane	ND	116		µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,1,1-Trichloroethane	ND	116		µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,1,2,2-Tetrachloroethane	ND	44.8		µg/Kg-dry	1	6/13/2006 8:56:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

GeoLabs, Inc.

Date: *16-Jun-06*

CLIENT: Common Sense Envtl Inc
Project: 16 Blackmer St

Lab Order: 0606150

VOLATILE ORGANIC COMPOUNDS BY GC/MS **SW8260B** Analyst: **MR**

1,1,2-Trichloroethane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,1-Dichloroethane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,1-Dichloroethene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,1-Dichloropropene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,2,3-Trichlorobenzene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,2,3-Trichloropropane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,2,4-Trichlorobenzene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,2,4-Trimethylbenzene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,2-Dibromo-3-chloropropane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,2-Dibromoethane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,2-Dichlorobenzene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,2-Dichloroethane	ND	23.3	µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,2-Dichloropropane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,3,5-Trimethylbenzene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,3-Dichlorobenzene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,3-Dichloropropane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
1,4-Dichlorobenzene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
2,2-Dichloropropane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
2-Butanone	ND	233	µg/Kg-dry	1	6/13/2006 8:56:00 PM
2-Chloroethyl vinyl ether	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
2-Chlorotoluene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
2-Hexanone	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
4-Chlorotoluene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
4-Isopropyltoluene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
4-Methyl-2-pentanone	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Acetone	ND	1160	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Acrylonitrile	ND	1160	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Benzene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Bromobenzene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Bromochloromethane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Bromodichloromethane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Bromoform	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Bromomethane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Carbon tetrachloride	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Chlorobenzene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Chloroethane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Chloroform	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Chloromethane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
cis-1,2-Dichloroethene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
cis-1,3-Dichloropropene	ND	13.7	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Dibromochloromethane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Dibromomethane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Dichlorodifluoromethane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Ethylbenzene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GeoLabs, Inc.

Date: *16-Jun-06*

CLIENT: Common Sense Envtl Inc
Project: 16 Blackmer St
Lab Order: 0606150

VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B			Analyst: MR
Hexachlorobutadiene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Isopropylbenzene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Methyl tert-butyl ether	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Methylene chloride	ND	291	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Naphthalene	ND	1160	µg/Kg-dry	1	6/13/2006 8:56:00 PM
n-Butylbenzene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
n-Propylbenzene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
sec-Butylbenzene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Styrene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
tert-Butylbenzene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Tetrachloroethene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Toluene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
trans-1,2-Dichloroethene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
trans-1,3-Dichloropropene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Trichloroethene	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Trichlorofluoromethane	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Vinyl chloride	ND	46.5	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Xylenes, Total	ND	116	µg/Kg-dry	1	6/13/2006 8:56:00 PM
Surr: 1,2-Dichloroethane-d4	100	70-130	%REC	1	6/13/2006 8:56:00 PM
Surr: 4-Bromofluorobenzene	102	70-130	%REC	1	6/13/2006 8:56:00 PM
Surr: Dibromofluoromethane	94.8	70-130	%REC	1	6/13/2006 8:56:00 PM
Surr: Toluene-d8	98.6	70-130	%REC	1	6/13/2006 8:56:00 PM

PH		SW9045B			Analyst: NS
pH	6.83	0	pH Units	1	6/14/2006

CYANIDE, REACTIVE		SW7.3.3.2			Analyst: NS
Reactive Cyanide	ND	5.00	mg/Kg-dry	1	6/14/2006

SULFIDE, REACTIVE		SW7.3.4.2			Analyst: NS
Reactive Sulfide	ND	1.23	mg/Kg-dry	1	6/14/2006

Lab ID: 0606150-002
Client Sample ID: BH6B 2.5-6.0
Collection Date: 6/12/2006 2:15:00 PM
Matrix: SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
METALS, TOTAL		SW6010B		(SW3050B)		Analyst: QS
Lead	209	11.0		mg/Kg-dry	1	6/14/2006

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GeoLabs, Inc.

Date: *16-Jun-06*

CLIENT: Common Sense Envtl Inc
Project: 16 Blackmer St
Lab Order: 0606150

Lab ID: 0606150-003
Collection Date: 6/12/2006 2:30:00 PM
Client Sample ID: BH6C 2.5-6.0
Matrix: SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
METALS, TOTAL		**SW6010B**		**(SW3050B)**		Analyst: **QS**
Lead	1380	100		mg/Kg-dry	10	6/14/2006

Lab ID: 0606150-004
Collection Date: 6/12/2006 2:45:00 PM
Client Sample ID: BH6D 2.5-6.0
Matrix: SOIL

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
METALS, TOTAL		**SW6010B**		**(SW3050B)**		Analyst: **QS**
Lead	611	10.5		mg/Kg-dry	1	6/14/2006

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

12

CHAIN OF CUSTODY

GeoLabs CHAIN NUMBER: 0606150 (DR)

CHECKED ITEMS MUST BE FILLED IN

24/48 HOUR RUSHES ONLY WITH APPROVAL OF D. KAHLER OR LAB DIRECTOR

GeoLabs, Inc.
Environmental Laboratories
45 Johnson Lane
Braintree, MA 02184
Office: 781-848-7844
Fax: 781-848-7811

Turnaround Time

RUSH: 24-48hrs ☐ 72hrs ☐ STANDARD: 5 Days X

RUSH APPROVED BY: X

Page 1 of 1

SPECIAL INSTRUCTIONS: RCS-7

Note: JOBS WITH INCOMPLETELY FILLED OUT CHAINS WILL NOT BE RUN. CHAIN WILL BE RETURNED TO CLIENT FOR COMPLETION

TYPE OF CLIENT: BUS ___ LAB ___ HOMEOWNER ___ | NOTE: HOMEOWNERS, LAW FIRMS MUST PAY WHEN DROPPING OFF SAMPLES

Client: X Common Sense Inc.
Address: X 50 Theresa St. NO P.O. BOXES Dartmouth MA 02748
Phone: X 508-991-3491
Fax: 508-992-5039
Contact: X Cynthia
E-mail: csense@empire.net

Project Number: X
Project Location: X 116 Blackmer St. New Bedford MA
Purchase Order #:
Collected By: X Cynthia

CHANGES REQUESTED? Y N
BY DATE

Received on ice? ☐

ANALYSES REQUESTED

SAMPLE ID	COLLECTION DATE	TIME	SAMPLED BY	SAMPLE LOCATION	CONTAINER TYPE	QUANT	MATRIX	COMP	GRAB	PRES	GEOLABS SAMPLE NUMBER	Total Lead	MA Disposal	TCLP - Lead	TPH	PCB, RCRA 5	8260	pH, reactivity	flash point	TEMPERATURE	LAB pH
	6/12/06	2:00	CSC	BH6A 2.5-6.0	A	2	S		X		06150-001		X	X	X	X		X	X	7°	-
		2:00		BH6A 2.5-6.0	X	1	S		X	6			X				X				-
		2:15		BH6B 2.5-6.0	A	1	S		X		06150-002	X									-
		2:30		BH6C 2.5-6.0	A	1	S		X		06150-003	X									-
		2:45		BH6D 2.5-6.0	A	1	S		X		06150-004	X									-

C. Mulcahy 6/12/06

Verbal results given to by (date/initial)

MATRIX CODES:	CONTAINER CODES:	PRESERVATIVE CODES:
GW = Ground Water	A = Amber B = Bag	1 = HCl 5 = NaOH
WW = Wastewater	G = Glass P = Plastic	2 = HNO_3 6 = MeOH
DW = Drinking Water	S = Summa Canister	3 = H_2SO_4 7 = ICE
SL = Sludge	O = Other V = VOA	4 = $Na_2S_2O_3$
S = Soil A = Air	Terms: Payment due within 30 days unless other arrangements are made.	
O = Oil OT = Other	Past due balances subject to interest and collection costs.	

Relinquished By:	Date/Time	Received By:	Date/Time:
PRINT: Cynthia Gilchrest	6/12/06	Ken McKenna	6-13-06 10:30
Relinquished By: [signature]		Received By:	
Relinquished By: Ken McKenna	6-13-06 11:30	Received By GeoLabs: Danielle Rego	6/13/06 11:30a

Appendix D Field Sampling Logs

EST environmental & industrial

51 Fremont Street, Needham, MA 02494
Tel: (781) 455-0003
Fax: (781) 455-8336
www.estassociates.com

LOW FLOW GROUNDWATER MONITORING REPORT

Client: **Common Sense Environmental**
50 Theresa Street
South Dartmouth, MA 02748
Attention: **Cynthia Gilchrest**
Report Date: **June 6, 2006**

Site Location: **16 Blackmer Street, New Bedford, MA**
Sample Date: **May 30, 2006**
Field Technician(s): **J. Giancioppo**
Weather Conditions: **Sunny +/-70°F**

Location ID	SWL (feet)	pH (S.U.)	Cond (mS/cm)	Temp (0C)	DO (mg/L)	Turbidity (NTU)	ORP (mV)
CSE-1	4.80	6.45	15.84	14.58	1.39	4.4	223.8
CSE-2	4.47	5.22	1.166	15.63	1.02	>200	332.3
CSE-3	6.64	5.40	1.083	19.87	1.87	180	327.0

Note(s):
- Appropriately preserved samples delivered to GeoLabs, Braintree, MA with the associated Chain of Custody documentation.
- Static Water Levels were measured from top of PVC Riser unless indicated otherwise.
- Measurements listed above indicate final stabilized field analytical results.
- Samples collected for dissolved metals analysis were field filtered to 0.45 micron.
- CSE-2 purged dry sampled after suffiecient recharge.
- Metals duplicate collected at CSE-3

Reviewed By: _____

EST - LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME: Common Sense Environmental | PROJECT#: | WELL ID: CSE-3

LOCATION: New Bedford

SAMPLING CREW: JG | DATE: 5/30/06 | SAMPLE TIME: 12:00

PURGING DATA

REFERENCE POINT: PVC Steel Casing | PURGING DEVICE: GEO PUMP

DEPTH TO WATER: 6.64 (FT) | WELL DEPTH: 8.89 (FT) | Well Diameter: 2"

CLOCK TIME	STATIC DEPTH (FT)	PURGE RATE (ML)	CUM. VOLUME PURGED (L)	TEMP (°C)	SP. COND (mS/cm)	pH (s.u.)	ORP/Eh (MV)	DO (mg/L)	Turb (NTU)	COMMENTS
11:20	6.80	100	1	20.28	1.143	5.27	320.1	4.10	100	
11:25	6.93		1.5	18.65	1.128	5.02	330.0	3.51	105	
11:30	7.00		2	18.74	1.090	4.90	347.3	2.98	120	Getting consistently
11:35	7.05		3.0	18.61	1.084	4.92	346.2	2.32	160	more turbid w/tan color
11:40	7.05		3.5	19.45	1.083	5.18	333.1	2.03	210	
11:45	7.05		4	19.94	1.085	5.38	329.9	1.97	190	
11:50	7.05		4.5	19.90	1.083	5.45	328.8	1.88	180	
11:55	7.05		5	19.87	1.083	5.40	327.0	1.87	180	

FINAL FIELD DATA

pH: 5.40 (S.U.) | DO: 1.87 (mg/L) | COMMENTS: Low water level w/slow recharge. Well is new.

SPECIFIC CONDUCTANCE: 1.083 (mS/cm) | TURBIDITY: 180 (NTU)

TEMPERATURE: 19.87 (°C) | ORP: 327.0 (MV)

ODOR AND PHYSICAL APPEARANCE OF SAMPLE: Tan, silty w/no odor | METAL DUPLICATE

WEATHER CONDITIONS: sunny, hot 70°-80°F

WELL CONDITION DATA

Protective Casing Present: Y N | Concrete pad present: Y N | Cap on riser: Y N

Protective Casing Locked: Y N | Standing Water: Y N | Visible Heaving: Y N

Physical Damage: Y N

If yes, Describe:

SAMPLER'S SIGNATURE:

EST - LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME: Common Sense Environmental | PROJECT#: | WELL ID: CSE-1

LOCATION: New Bedford

SAMPLING CREW: JG | DATE: 5/30/06 | SAMPLE TIME: 10:35

PURGING DATA

REFERENCE POINT: PVC Steel Casing | PURGING DEVICE: GEO PUMP

DEPTH TO WATER: 4.80 (FT) | WELL DEPTH: 9.90 (FT) | Well Diameter: 2

CLOCK TIME	STATIC DEPTH (FT)	PURGE RATE (ML)	CUM. VOLUME PURGED (L)	TEMP (°C)	SP. COND (mS/cm)	pH (s.u.)	ORP/Eh (MV)	DO (mg/L)	Turb (NTU)	COMMENTS
9:50	4.94	125	2	14.25	17.17	4.62	331.0	4.12	50	
9:55	4.95	↓	3.25	14.36	16.11	3.86	252.9	3.25	28	pH readings low?!
10:00	4.98		4.5	14.30	15.78	4.82	244.1	2.49	8.0	
10:05	4.99		5.75	13.98	15.75	6.41	236.5	2.04	6.3	CHANGED pH METER
10:10	5.00		7	14.21	15.71	6.48	228.0	1.81	5.3	
10:15	4.99		8.25	14.52	15.79	6.45	225.6	1.67	5.0	
10:20	4.99		9.5	14.64	15.87	6.43	225.5	1.59	4.4	Turbidity below req'mnts
10:25	4.99		10.75	14.56	15.85	6.45	224.1	1.45		
10:30	4.99		11.0	14.58	15.84	6.45	223.8	1.39		

FINAL FIELD DATA

pH: 6.45 (S.U.) | DO: 1.39 (mg/L) | COMMENTS: Well in good condition (NEW). Good recharge

SPECIFIC CONDUCTANCE: 15.84 (mS/cm) | TURBIDITY: 4.4 (NTU)

TEMPERATURE: 14.58 (°C) | ORP: 223.8 (MV)

ODOR AND PHYSICAL APPEARANCE OF SAMPLE: Clear w/no odor

WEATHER CONDITIONS: sunny, humid 70's F

WELL CONDITION DATA

Protective Casing Present: Y N | Concrete pad present: Y N | Cap on riser: Y N

Protective Casing Locked: Y N | Standing Water: Y N | Visible Heaving: Y N

Physical Damage: Y N

If yes, Describe:

SAMPLER'S SIGNATURE:

EST - LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME: Common Sense Environmental | PROJECT#: | WELL ID: CSE-2

LOCATION: New Bedford

SAMPLING CREW: JG | DATE: 5/30/06 | SAMPLE TIME: 13:30

PURGING DATA

REFERENCE POINT: (PVC) Steel Casing | PURGING DEVICE: GEO PUMP

DEPTH TO WATER: 4.47 (FT) | WELL DEPTH: 8.05 (FT) | Well Diameter: 2"

CLOCK TIME	STATIC DEPTH (FT)	PURGE RATE (ML)	CUM. VOLUME PURGED (L)	TEMP (°C)	SP. COND (mS/cm)	pH (s.u.)	ORP/Eh (MV)	DO (mg/L)	Turb (NTU)	COMMENTS
12:50	4.70	100	1	15.25	1.147	6.15	324.5	3.43	95	
12:55	5.15		1.5	14.93	1.147	5.37	330.1	2.60	150	
13:00	5.40		2	14.76	1.163	5.41	312.1	1.83	>200	
13:05	5.45		2.5	15.10	1.163	5.20	304.7	1.67	>200	
13:10	5.55		3	15.46	1.165	5.22	341.9	1.42	>200	
13:15	5.70		3.5	15.56	1.167	5.18	338.0	1.20	>200	
13:20	6.00		4	15.64	1.167	5.20	332.5	1.05	>200	
13:25	6.20		4.5	15.63	1.166	5.22	332.3	1.02	>200	Stopped due to stable #'s and quick drawdown of well

FINAL FIELD DATA

pH: 5.22 (S.U.) | DO: 1.02 (mg/L) | COMMENTS: Well in good condition (new)

SPECIFIC CONDUCTANCE: 1.166 (mS/cm) | TURBIDITY: >200 (NTU)

TEMPERATURE: 15.63 (°C) | ORP: 332.3 (MV) | V. slow recharge - Well drops quickly even @ pumps slowest speeds

ODOR AND PHYSICAL APPEARANCE OF SAMPLE: Silty, tan color w/no odor

WEATHER CONDITIONS: Sunny, hot 70°-80° F

WELL WENT DRY

WELL CONDITION DATA

Protective Casing Present: (Y) N | Concrete pad present: (Y) N | Cap on riser: (Y) N

Protective Casing Locked: (Y) N | Standing Water: Y (N) | Visible Heaving: Y (N)

Physical Damage: Y (N)

If yes, Describe:

SAMPLER'S SIGNATURE:

51 Fremont Street Needham, MA 02494 Tel: 781-455-0003, Fax: 781-455-8336

EST environmental & industrial

CHAIN OF CUSTODY RECORD

Laboratory: Geolabs, 781-848-7844

ient	Common Sense Environmental
ddress	50 Theresa Street South Dartmouth, MA 02748
ontact	Cynthia Gilchrest
hone #	508-991-3491 Fax:
roject Name	New Bedford Wells
ddress	16 Blackmer Street New Bedford, MA
ontact	Cynthia Gilchrest Phone: 508-991-3491
	Cell: 508-726-0902 Fax:
escription	Low Flow Groundwater Sampling

MATRIX
1. Wastewater
2. Groundwater
3. Drinking Water
4. Soil
5. Surface Water
6. Other _____

EST to Invoice: Common Sense
Lab to Invoice: EST
Lab Report to: Csense@empire.net
Billing Reference: Q#9910523-06-10 NFC

Field ID / Point of Collection	Collection Date	Collection Time	Matrix	# of bottles Glass	Type Plastic	Type VOA's	Preservation HCL	NaOH	HNO3	H2So4	MEOH	Other	None	PCB's	PAH's/EPH w/Targets	Dissolved Pb (Field Filtered)	Analytical Information	Comments:
:SE 1	5/30	10:35	2	6	1		X		X			X		X	X	X		
:SE 2	"	13:30	2	6	1		X		X			X		X	X	X		
:SE 3	"	12:00	2	6	1		X		X			X		X	X	X		
)uplicate	"	12:00														X		

Turnaround Information

- [ ] Std. 10 Day Turnaround
- [x] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *RUSH*

Approved By:

QA/QC

SPECIAL QA/QC or DATA Requirements:

Additional Information

Each Bottle Set to Include:

PAH's/EPH: (3) 1L Amber with HCl
Dissolved Pb: (1) 500ml Plastic (Field Filtered-HNO3)
PCB's: (3) Ambers with Na2S203

Sample Custody must be documented below each time samples change possesion, including courier delivery

Relinquished by Sampler:	Date Time:	Received By:	Date Time:
	5/30/06 15:00	1	5/30/06 3:35
Relinquished by Sampler: 2	Date Time:	Received By: 2	Date Time:
Relinquished by Sampler: 3	Date Time:	Received By: 3	Date Time:

Seal # ☐ Preserve where applicable ☐ On Ice ☐ Temp.

Appendix E Groundwater Analytical Data Sheets

Thursday, June 08, 2006

GeoLabs, Inc.
45 Johnson Lane
Braintree MA 02184
Tele: 781 848 7844
Fax: 781 848 7811

Cynthia Gilchrest
Common Sense Envtl Inc
50 Theresa Street
South Dartmouth, MA 02748

TEL: (508) 991-3491
FAX: (508) 992-5039

Project: New Bedford Wells
Location: 16 Blackmer St, New Bedford, MA

Order No.: 0605429

Dear Cynthia Gilchrest:

GeoLabs, Inc. received 4 sample(s) on 5/31/2006 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Jim Chen
Laboratory Director

GeoLabs, Inc. **Date:** *08-Jun-06*

CLIENT: Common Sense Envtl Inc
Project: New Bedford Wells
Lab Order: 0605429

CASE NARRATIVE

MADEP MCP Response Action Analytical Report Certification Form

Laboratory Name: GeoLabs, Inc. Project #
Project Location: 16 Blackmer Street, New Bedford MA MADEP RTN #:

This form provides certification for the following data set: 0605429 (001-004)

Sample Matrix: Groundwater

MCP SW-846 Methods Used: EPH, 8082, 6010B

An affirmative answer to questions A, B and C are required for "Presumptive Certainty" status

A. Were all samples received by the laboratory in a condition consistent with that described on the Chain of custody documentation for the data set? YES

B. Were all QA/QC procedures required for the specified method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate standards or guidelines? YES

C. Does the analytical data included in this report meet all the requirements for "Presumptive Certainty" as described in Section 2.0 of the MADEP documents CAM VII A "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? YES

A response to questions D and E are required for "Presumptive Certainty" status

D. Were all QC performance standards and recommendations for the specified methods achieved?
YES

E. Were results for all analyte-list compounds/elements for the specified method(s) reported?
YES

All NO answers need to be addressed in an attached Environmental Laboratory case narrative.

GeoLabs, Inc.

Date: *08-Jun-06*

CLIENT: Common Sense Envtl Inc
Project: New Bedford Wells
Lab Order: 0605429

CASE NARRATIVE

CASE NARRATIVE

Physical Condition of Samples

The project was received by the laboratory in satisfactory condition. The sample(s) were received undamaged, in appropriate containers with the correct preservation.

Project Documentation

The project was accompanied by satisfactory Chain of Custody documentation.

Analysis of Sample(s)

No analytical anomalies or non-conformances were noted by the laboratory during the processing of these samples.

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

Signature: Jim Chen

Position: Lab Director

Printed Name: Jim Chen

Date: June 8, 2006

GeoLabs, Inc. **Date:** *08-Jun-06*

CLIENT: Common Sense Envtl Inc
Project: New Bedford Wells
Lab Order: 0605429

EPH Methods

Method for Ranges: MADEP EPH 04-1.1
Method for Target Analytes: 8270 GC/MS

Carbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range
C11-C22 Aromatic Hydrocarbons exclude concentrations of Target PAH Analytes

CERTIFICATION:
Were all QA/QC procedures REQUIRED by the EPH Method followed? YES
Were all performance/acceptance standards achieved? YES
Were any significant modifications made to the EPH method? NO

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

SIGNATURE: Jim Chen LAB DIRECTOR

PRINTED NAME: Jim Chen

DATE: June 8, 2006

GeoLabs, Inc.

Date: *08-Jun-06*

CLIENT:	Common Sense Envtl Inc	**Client Sample ID:**	CSE-1
Lab Order:	0605429	**Collection Date:**	5/30/2006 10:35:00 AM
Project:	New Bedford Wells	**Date Received:**	5/31/2006
Lab ID:	0605429-001	**Matrix:**	GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
EPH RANGES		**MADEP EPH**		**(MADEP EPH)**		Analyst: **KH**
Adjusted C11-C22 Aromatics	ND	100		µg/L	1	5/31/2006
C09-C18 Aliphatics	ND	100		µg/L	1	5/31/2006
C19-C36 Aliphatics	ND	100		µg/L	1	5/31/2006
Unadjusted C11-C22 Aromatics	ND	100		µg/L	1	5/31/2006
Surr: 1-Chlorooctadecane	45.0	40-140		%REC	1	5/31/2006
Surr: o-Terphenyl	89.0	40-140		%REC	1	5/31/2006
POLYCHLORINATED BIPHENYLS		**SW8082**		**(SW3510B)**		Analyst: **GP**
Aroclor 1016/1242	ND	0.303		µg/L	1	5/5/2006
Aroclor 1221	ND	0.303		µg/L	1	5/5/2006
Aroclor 1232	ND	0.303		µg/L	1	5/5/2006
Aroclor 1248	ND	0.303		µg/L	1	5/5/2006
Aroclor 1254	0.721	0.303		µg/L	1	5/5/2006
Aroclor 1260	ND	0.303		µg/L	1	5/5/2006
Aroclor 1262	ND	0.303		µg/L	1	5/5/2006
Aroclor 1268	ND	0.303		µg/L	1	5/5/2006
Surr: Decachlorobiphenyl Sig 1	58.0	30-150		%REC	1	5/5/2006
Surr: Decachlorobiphenyl Sig 2	60.0	30-150		%REC	1	5/5/2006
Surr: Tetrachloro-m-xylene Sig 1	80.0	30-150		%REC	1	5/5/2006
Surr: Tetrachloro-m-xylene Sig 2	84.0	30-150		%REC	1	5/5/2006
DISSOLVED METALS BY ICP		**SW6010B**		**(SW3005A)**		Analyst: **QS**
Lead	ND	0.0150		mg/L	1	5/31/2006
EPH TARGET ANALYTES		**MADEP EPH_P**		**(EPH_WPR)**		Analyst: **ZYZ**
Naphthalene	ND	1.00		µg/L	1	6/6/2006 2:44:00 PM
2-Methylnaphthalene	ND	1.00		µg/L	1	6/6/2006 2:44:00 PM
Acenaphthene	ND	1.00		µg/L	1	6/6/2006 2:44:00 PM
Phenanthrene	ND	1.00		µg/L	1	6/6/2006 2:44:00 PM
Acenaphthylene	ND	1.00		µg/L	1	6/6/2006 2:44:00 PM
Fluorene	ND	1.00		µg/L	1	6/6/2006 2:44:00 PM
Anthracene	ND	1.00		µg/L	1	6/6/2006 2:44:00 PM
Fluoranthene	ND	1.00		µg/L	1	6/6/2006 2:44:00 PM
Pyrene	ND	1.50		µg/L	1	6/6/2006 2:44:00 PM
Benzo(a)anthracene	ND	1.00		µg/L	1	6/6/2006 2:44:00 PM
Chrysene	ND	1.00		µg/L	1	6/6/2006 2:44:00 PM
Benzo(b)fluoranthene	ND	1.00		µg/L	1	6/6/2006 2:44:00 PM
Benzo(k)fluoranthene	ND	0.120		µg/L	1	6/6/2006 2:44:00 PM
Benzo(a)pyrene	ND	0.0800		µg/L	1	6/6/2006 2:44:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

GeoLabs, Inc.

Date: *08-Jun-06*

CLIENT:	Common Sense Envtl Inc	**Client Sample ID:**	CSE-1
Lab Order:	0605429	**Collection Date:**	5/30/2006 10:35:00 AM
Project:	New Bedford Wells	**Date Received:**	5/31/2006
Lab ID:	0605429-001	**Matrix:**	GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
EPH TARGET ANALYTES		**MADEP EPH_P**		**(EPH_WPR)**		Analyst: **ZYZ**
Indeno(1,2,3-cd)pyrene	ND	0.240		µg/L	1	6/6/2006 2:44:00 PM
Dibenz(a,h)anthracene	ND	0.500		µg/L	1	6/6/2006 2:44:00 PM
Benzo(g,h,l)perylene	ND	1.50		µg/L	1	6/6/2006 2:44:00 PM
Total PAH Target Concentration	ND	0		µg/L	1	6/6/2006 2:44:00 PM
Surr: 2,2'-difluorobiphenyl	73.3	40-140		%REC	1	6/6/2006 2:44:00 PM
Surr: 2-Fluorobiphenyl	70.5	40-140		%REC	1	6/6/2006 2:44:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GeoLabs, Inc.

Date: *08-Jun-06*

CLIENT:	Common Sense Envtl Inc	**Client Sample ID:**	CSE-2
Lab Order:	0605429	**Collection Date:**	5/30/2006 1:30:00 PM
Project:	New Bedford Wells	**Date Received:**	5/31/2006
Lab ID:	0605429-002	**Matrix:**	GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
EPH RANGES		**MADEP EPH**		**(MADEP EPH)**		Analyst: **KH**
Adjusted C11-C22 Aromatics	ND	120		µg/L	1	5/31/2006
C09-C18 Aliphatics	ND	120		µg/L	1	5/31/2006
C19-C36 Aliphatics	ND	120		µg/L	1	5/31/2006
Unadjusted C11-C22 Aromatics	ND	120		µg/L	1	5/31/2006
Surr: 1-Chlorooctadecane	45.0	40-140		%REC	1	5/31/2006
Surr: o-Terphenyl	91.0	40-140		%REC	1	5/31/2006
POLYCHLORINATED BIPHENYLS		**SW8082**		**(SW3510B)**		Analyst: **GP**
Aroclor 1016/1242	ND	0.375		µg/L	1	5/5/2006
Aroclor 1221	ND	0.375		µg/L	1	5/5/2006
Aroclor 1232	ND	0.375		µg/L	1	5/5/2006
Aroclor 1248	ND	0.375		µg/L	1	5/5/2006
Aroclor 1254	0.871	0.375		µg/L	1	5/5/2006
Aroclor 1260	ND	0.375		µg/L	1	5/5/2006
Aroclor 1262	ND	0.375		µg/L	1	5/5/2006
Aroclor 1268	ND	0.375		µg/L	1	5/5/2006
Surr: Decachlorobiphenyl Sig 1	56.0	30-150		%REC	1	5/5/2006
Surr: Decachlorobiphenyl Sig 2	62.0	30-150		%REC	1	5/5/2006
Surr: Tetrachloro-m-xylene Sig 1	90.0	30-150		%REC	1	5/5/2006
Surr: Tetrachloro-m-xylene Sig 2	94.0	30-150		%REC	1	5/5/2006
DISSOLVED METALS BY ICP		**SW6010B**		**(SW3005A)**		Analyst: **QS**
Lead	ND	0.0150		mg/L	1	5/31/2006
EPH TARGET ANALYTES		**MADEP EPH_P**		**(EPH_WPR)**		Analyst: **ZYZ**
Naphthalene	ND	1.20		µg/L	1	6/6/2006 3:18:00 PM
2-Methylnaphthalene	ND	1.20		µg/L	1	6/6/2006 3:18:00 PM
Acenaphthene	ND	1.20		µg/L	1	6/6/2006 3:18:00 PM
Phenanthrene	ND	1.20		µg/L	1	6/6/2006 3:18:00 PM
Acenaphthylene	ND	1.20		µg/L	1	6/6/2006 3:18:00 PM
Fluorene	ND	1.20		µg/L	1	6/6/2006 3:18:00 PM
Anthracene	ND	1.20		µg/L	1	6/6/2006 3:18:00 PM
Fluoranthene	ND	1.20		µg/L	1	6/6/2006 3:18:00 PM
Pyrene	ND	1.81		µg/L	1	6/6/2006 3:18:00 PM
Benzo(a)anthracene	ND	1.20		µg/L	1	6/6/2006 3:18:00 PM
Chrysene	ND	1.20		µg/L	1	6/6/2006 3:18:00 PM
Benzo(b)fluoranthene	ND	1.20		µg/L	1	6/6/2006 3:18:00 PM
Benzo(k)fluoranthene	ND	0.145		µg/L	1	6/6/2006 3:18:00 PM
Benzo(a)pyrene	ND	0.0964		µg/L	1	6/6/2006 3:18:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GeoLabs, Inc.

Date: *08-Jun-06*

CLIENT:	Common Sense Envtl Inc	**Client Sample ID:**	CSE-2
Lab Order:	0605429	**Collection Date:**	5/30/2006 1:30:00 PM
Project:	New Bedford Wells	**Date Received:**	5/31/2006
Lab ID:	0605429-002	**Matrix:**	GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
EPH TARGET ANALYTES		**MADEP EPH_P**		**(EPH_WPR)**		Analyst: **ZYZ**
Indeno(1,2,3-cd)pyrene	ND	0.289		µg/L	1	6/6/2006 3:18:00 PM
Dibenz(a,h)anthracene	ND	0.602		µg/L	1	6/6/2006 3:18:00 PM
Benzo(g,h,I)perylene	ND	1.81		µg/L	1	6/6/2006 3:18:00 PM
Total PAH Target Concentration	ND	0		µg/L	1	6/6/2006 3:18:00 PM
Surr: 2,2'-difluorobiphenyl	72.9	40-140		%REC	1	6/6/2006 3:18:00 PM
Surr: 2-Fluorobiphenyl	71.6	40-140		%REC	1	6/6/2006 3:18:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GeoLabs, Inc.

Date: *08-Jun-06*

CLIENT:	Common Sense Envtl Inc	**Client Sample ID:**	CSE-3
Lab Order:	0605429	**Collection Date:**	5/30/2006 12:00:00 PM
Project:	New Bedford Wells	**Date Received:**	5/31/2006
Lab ID:	0605429-003	**Matrix:**	GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
EPH RANGES		**MADEP EPH**		**(MADEP EPH)**		Analyst: **KH**
Adjusted C11-C22 Aromatics	ND	114		µg/L	1	5/31/2006
C09-C18 Aliphatics	ND	114		µg/L	1	5/31/2006
C19-C36 Aliphatics	ND	114		µg/L	1	5/31/2006
Unadjusted C11-C22 Aromatics	ND	114		µg/L	1	5/31/2006
Surr: 1-Chlorooctadecane	50.0	40-140		%REC	1	5/31/2006
Surr: o-Terphenyl	58.0	40-140		%REC	1	5/31/2006
POLYCHLORINATED BIPHENYLS		**SW8082**		**(SW3510B)**		Analyst: **GP**
Aroclor 1016/1242	ND	0.366		µg/L	1	5/5/2006
Aroclor 1221	ND	0.366		µg/L	1	5/5/2006
Aroclor 1232	ND	0.366		µg/L	1	5/5/2006
Aroclor 1248	ND	0.366		µg/L	1	5/5/2006
Aroclor 1254	0.829	0.366		µg/L	1	5/5/2006
Aroclor 1260	ND	0.366		µg/L	1	5/5/2006
Aroclor 1262	ND	0.366		µg/L	1	5/5/2006
Aroclor 1268	ND	0.366		µg/L	1	5/5/2006
Surr: Decachlorobiphenyl Sig 1	60.0	30-150		%REC	1	5/5/2006
Surr: Decachlorobiphenyl Sig 2	64.0	30-150		%REC	1	5/5/2006
Surr: Tetrachloro-m-xylene Sig 1	82.0	30-150		%REC	1	5/5/2006
Surr: Tetrachloro-m-xylene Sig 2	86.0	30-150		%REC	1	5/5/2006
DISSOLVED METALS BY ICP		**SW6010B**		**(SW3005A)**		Analyst: **QS**
Lead	ND	0.0150		mg/L	1	5/31/2006
EPH TARGET ANALYTES		**MADEP EPH_P**		**(EPH_WPR)**		Analyst: **ZYZ**
Naphthalene	ND	1.14		µg/L	1	6/6/2006 3:51:00 PM
2-Methylnaphthalene	ND	1.14		µg/L	1	6/6/2006 3:51:00 PM
Acenaphthene	ND	1.14		µg/L	1	6/6/2006 3:51:00 PM
Phenanthrene	ND	1.14		µg/L	1	6/6/2006 3:51:00 PM
Acenaphthylene	ND	1.14		µg/L	1	6/6/2006 3:51:00 PM
Fluorene	ND	1.14		µg/L	1	6/6/2006 3:51:00 PM
Anthracene	ND	1.14		µg/L	1	6/6/2006 3:51:00 PM
Fluoranthene	ND	1.14		µg/L	1	6/6/2006 3:51:00 PM
Pyrene	ND	1.70		µg/L	1	6/6/2006 3:51:00 PM
Benzo(a)anthracene	ND	1.14		µg/L	1	6/6/2006 3:51:00 PM
Chrysene	ND	1.14		µg/L	1	6/6/2006 3:51:00 PM
Benzo(b)fluoranthene	ND	1.14		µg/L	1	6/6/2006 3:51:00 PM
Benzo(k)fluoranthene	ND	0.136		µg/L	1	6/6/2006 3:51:00 PM
Benzo(a)pyrene	ND	0.0909		µg/L	1	6/6/2006 3:51:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GeoLabs, Inc.

Date: *08-Jun-06*

CLIENT:	Common Sense Envtl Inc	**Client Sample ID:**	CSE-3
Lab Order:	0605429	**Collection Date:**	5/30/2006 12:00:00 PM
Project:	New Bedford Wells	**Date Received:**	5/31/2006
Lab ID:	0605429-003	**Matrix:**	GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
EPH TARGET ANALYTES		**MADEP EPH_P**		**(EPH_WPR)**		Analyst: **ZYZ**
Indeno(1,2,3-cd)pyrene	ND	0.273		µg/L	1	6/6/2006 3:51:00 PM
Dibenz(a,h)anthracene	ND	0.568		µg/L	1	6/6/2006 3:51:00 PM
Benzo(g,h,I)perylene	ND	1.70		µg/L	1	6/6/2006 3:51:00 PM
Total PAH Target Concentration	ND	0		µg/L	1	6/6/2006 3:51:00 PM
Surr: 2,2'-difluorobiphenyl	42.6	40-140		%REC	1	6/6/2006 3:51:00 PM
Surr: 2-Fluorobiphenyl	40.1	40-140		%REC	1	6/6/2006 3:51:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GeoLabs, Inc.

Date: *08-Jun-06*

CLIENT:	Common Sense Envtl Inc	**Client Sample ID:**	Duplicate
Lab Order:	0605429	**Collection Date:**	5/30/2006 12:00:00 PM
Project:	New Bedford Wells	**Date Received:**	5/31/2006
Lab ID:	0605429-004	**Matrix:**	GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP		**SW6010B**		**(SW3005A)**		Analyst: **QS**
Lead	ND	0.0150		mg/L	1	5/31/2006

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

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51 Fremont Street Needham, MA 02494 Tel: 781-455-0003, Fax: 781-455-8336

EST environmental & industrial

CHAIN OF CUSTODY RECORD

Laboratory: Geolabs, 781-848-7844

0605429 (DR)

Client	Common Sense Environmental
Address	50 Theresa Street South Dartmouth, MA 02748
Contact	Cynthia Gilchrest
Phone #	508-991-3491 Fax:
Project Name	New Bedford Wells
Address	16 Blackmer Street New Bedford, MA
Contact	Cynthia Gilchrest Phone: 508-991-3491
	Cell: 508-726-0902 Fax:
Description	Low Flow Groundwater Sampling

MATRIX
1. Wastewater
2. Groundwater
3. Drinking Water
4. Soil
5. Surface Water
6. Other _____

EST to Invoice: Common Sense
Lab to Invoice: EST
Lab Report to: Csense@empire.net
Billing Reference: Q#9910523-06-10 NFC

Field ID / Point of Collection	Collection Date	Collection Time	Matrix	# of bottles Glass	Type Plastic	Type VOA's	HCL	NaOH	HNO3	H2So4	MEOH	Other	None	PCB's	PAH's/EPH w/Targets	Dissolved Pb (Field Filtered)	Comments:
CSE 1	5/30	10:35	2	6	1		X		X			X		X	X	X	05429-001
CSE 2	"	1330	2	6	1		X		X			X		X	X	X	05429-002
CSE 3	"	12:00	2	6	1		X		X			X		X	X	X	05429-003
Duplicate	"	12:00														X	05429-004

Analytical Information

Turnaround Information

- [ ] Std. 10 Day Turnaround
- [x] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *RUSH*

Approved By:

QA/QC

SPECIAL QA/QC or DATA Requirements:

Additional Information

Each Bottle Set to Include:

PAH's/EPH: (3) 1L Amber with HCl
Dissolved Pb: (1) 500ml Plastic (Field Filtered-HNO3)
PCB's: (3) Ambers with Na2S203

run full EPH per Cynthia DR 5/31

Sample Custody must be documented below each time samples change possesion, including courier delivery

Relinquished by Sampler:	Date Time:	Received By:	Date Time:
1 [signature]	5/30/06 15:00	1 [signature]	5/30/06 3:35
Relinquished by Sampler: 2	Date Time:	Received By: 2	Date Time:
Relinquished by Sampler: 3 [signature]	5/30/06 6:30	Received By: 3 [signature]	5/31/06 8:00

Seal # ☐ Preserve where applicable ☐ On ice ☐ Temp.

Wednesday, August 02, 2006

GeoLabs, Inc.
45 Johnson Lane
Braintree MA 02184
Tele: 781 848 7844
Fax: 781 848 7811

Cynthia Gilchrest
Common Sense Envtl Inc
50 Theresa Street
South Dartmouth, MA 02748

TEL: (508) 991-3491
FAX: (508) 992-5039

Project: Blackmer St
Location: New Bedford, MA

Order No.: 0607359

Dear Cynthia Gilchrest:

GeoLabs, Inc. received 2 sample(s) on 7/28/2006 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Jim Chen
Laboratory Director

GeoLabs, Inc.

Date: *02-Aug-06*

CLIENT:	Common Sense Envtl Inc	**Client Sample ID:**	CSE-2A
Lab Order:	0607359	**Collection Date:**	7/27/2006 10:00:00 AM
Project:	Blackmer St	**Date Received:**	7/28/2006
Lab ID:	0607359-001A	**Matrix:**	GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS		**SW8082**		**(SW3510B)**		Analyst: **GP**
Aroclor 1016/1242	ND	0.345		µg/L	1	8/1/2006
Aroclor 1221	ND	0.345		µg/L	1	8/1/2006
Aroclor 1232	ND	0.345		µg/L	1	8/1/2006
Aroclor 1248	ND	0.345		µg/L	1	8/1/2006
Aroclor 1254	ND	0.345		µg/L	1	8/1/2006
Aroclor 1260	ND	0.345		µg/L	1	8/1/2006
Aroclor 1262	ND	0.345		µg/L	1	8/1/2006
Aroclor 1268	ND	0.345		µg/L	1	8/1/2006
Surr: Decachlorobiphenyl Sig 1	118	30-150		%REC	1	8/1/2006
Surr: Decachlorobiphenyl Sig 2	96.0	30-150		%REC	1	8/1/2006
Surr: Tetrachloro-m-xylene Sig 1	106	30-150		%REC	1	8/1/2006
Surr: Tetrachloro-m-xylene Sig 2	100	30-150		%REC	1	8/1/2006

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GeoLabs, Inc.

Date: *02-Aug-06*

CLIENT:	Common Sense Envtl Inc	**Client Sample ID:**	CSE-2B
Lab Order:	0607359	**Collection Date:**	7/27/2006 10:00:00 AM
Project:	Blackmer St	**Date Received:**	7/28/2006
Lab ID:	0607359-002A	**Matrix:**	GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS		**SW8082**		**(SW3510B)**		Analyst: **GP**
Aroclor 1016/1242	ND	0.353		µg/L	1	8/1/2006
Aroclor 1221	ND	0.353		µg/L	1	8/1/2006
Aroclor 1232	ND	0.353		µg/L	1	8/1/2006
Aroclor 1248	ND	0.353		µg/L	1	8/1/2006
Aroclor 1254	ND	0.353		µg/L	1	8/1/2006
Aroclor 1260	ND	0.353		µg/L	1	8/1/2006
Aroclor 1262	ND	0.353		µg/L	1	8/1/2006
Aroclor 1268	ND	0.353		µg/L	1	8/1/2006
Surr: Decachlorobiphenyl Sig 1	126	30-150		%REC	1	8/1/2006
Surr: Decachlorobiphenyl Sig 2	96.0	30-150		%REC	1	8/1/2006
Surr: Tetrachloro-m-xylene Sig 1	104	30-150		%REC	1	8/1/2006
Surr: Tetrachloro-m-xylene Sig 2	96.0	30-150		%REC	1	8/1/2006

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

6

CHAIN OF CUSTODY

GeoLabs CHAIN NUMBER: 0607359 DR

CHECKED ITEMS MUST BE FILLED IN

24/48 HOUR RUSHES ONLY WITH APPROVAL OF D. KAHLER OR LAB DIRECTOR

GeoLabs, Inc.
Environmental Laboratories
45 Johnson Lane
Braintree, MA 02184
Office: 781-848-7844
Fax: 781-848-7811

Turnaround Time

RUSH: 24-48hrs ☐ 72hrs ☐ STANDARD: 5 Days X

RUSH APPROVED BY: X

Page 1 of 1

SPECIAL INSTRUCTIONS

Lab to filter GSE-2B

Note: JOBS WITH INCOMPLETELY FILLED OUT CHAINS WILL NOT BE RUN. CHAIN WILL BE RETURNED TO CLIENT FOR COMPLETION

TYPE OF CLIENT: BUS X LAB ____ HOMEOWNER ____ NOTE: HOMEOWNERS, LAW FIRMS MUST PAY WHEN DROPPING OFF SAMPLES

Client: X ~~Common Sense Environmental~~
Address: X ~~50 Theresa Street~~ NO P.O. BOXES
~~South Dartmouth, MA 02748~~
Phone: X ~~(508) 991-3491~~
Fax:
Contact: X Cynthia
E-mail: CSense@empire.net

Project Number: X Blackmer St.
Project Location: X New Bedford, MA
Purchase Order #:
Collected By: X Cynthia

CHANGES REQUESTED? Y N
BY DATE

Received on ice? ✓

ANALYSES REQUESTED

SAMPLE ID	COLLECTION DATE	COLLECTION TIME	COLLECTION SAMPLED BY	SAMPLE LOCATION	CONTAINER TYPE	CONTAINER QUANT	MATRIX	COMP	GRAB	PRES	GEOLABS SAMPLE NUMBER	PCBs	PCBs - lab to filter							TEMPERATURE	LAB pH
	7/27/06	1000	CSE	CSE-2A	A	4	GW		X	—	7359-001	X								6°	7
	7/27/06	1000	CSE	CSE-2B	A	4	GW		X	—	7359-002		X							↓	↓

C. Schuler 7/27/06

Verbal results given to by (date/initial)

MATRIX CODES:	CONTAINER CODES:	PRESERVATIVE CODES:	Relinquished By: Date/Time	Received By: Date/Time
GW = Ground Water	A = Amber B = Bag	1 = HCl 5 = NaOH	7/27/06	7/27/07 10:40
WW = Wastewater	G = Glass P = Plastic	2 = HNO_3 6 = MeOH	PRINT: Cynthia Schuler	
DW = Drinking Water	S = Summa Canister	3 = H_2SO_4 7 = ICE	Relinquished By:	Received By:
SL = Sludge	O = Other V = VOA	4 = $Na_2S_2O_3$		
S = Soil A = Air	Terms: Payment due within 30 days unless other arrangements are made.		Relinquished By: 7/28/06 1pm	Received By GeoLabs: 7/28/06 Danielle Rego 1:00p
O = Oil OT = Other	Past due balances subject to interest and collection costs.			

Appendix F Data Usability Assessment

Laboratory Data Quality Analysis
RTN: 4-15490
16 Blackmer Street, New Bedford, Massachusetts

The following provides a discussion specific to analytical data generated as a result of work completed by Common Sense Environmental, Inc., and provided as Appendices B and D and summarized in Section 4.0.

Soil Investigation

The MADEP MCP Response Action Analytical Report Certification Form provided by GeoLabs indicates that all soil data in the report meet all the requirements for "Presumptive Certainty", as described in Section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data".

Lead in Soil Data:

Duplicate 1

The laboratory certification indicates that the analytical data meet all the requirements of "Presumptive Certainty", as described in Section 2.0 of MADEP documents CAM VII A, "Quality Assurance and Quality Control Guidelines of the Acquisition and Reporting of Analytical Data". Further, Common Sense submitted sample BH-1 2.5-5 feet and a duplicate sample (Duplicate 1/ BH-1 2.5-5 feet) for total lead analysis. Sample BH-1 2.5-5 feet 287ppm lead and Duplicate 1/ BH-1 2.5-5 feet exhibited 194 ppm lead. Further, MADEP requirements for Method 6010B Performance Standards for matrix duplicate indicate that if the difference between the sample concentrations (287 ppm -194 ppm = 93 ppm) divided by the average of concentrations (287ppm + 194 ppm is 481 ppm divided by 2 for an average of 240.5 ppm) is less than 35% the data are acceptable. However, the difference in concentration (93 ppm) divided by the average (240.51 ppm) equals 38% which is greater than 35% CAM guidelines. As a result, the analytical data for lead soil samples obtained from the Site are technically considered unacceptable for the purpose of this Response Action Outcome. However, the disparity of sample concentrations may be attributed to a non-homogenous sample and the observation of fill material throughout the Site.

EPH/PAHs:

The laboratory certification indicates that the analytical data meet all the requirements of "Presumptive Certainty", as described in Section 2.0 of MADEP documents CAM VII A, "Quality Assurance and Quality Control Guidelines of the Acquisition and Reporting of Analytical Data". Common Sense collected two duplicate samples (Duplicate 3 and Duplicate 4) for laboratory analysis for EPH and PAHs.

Duplicate 3

MADEP requirements for Method 8270 Performance Standards for matrix duplicate Relative Performance Difference (RPD) indicate that if the difference between the sample concentrations is less than five times the reporting limit then the data are acceptable. Common Sense submitted sample CSE TP-3 0-3 feet and a duplicate sample (Duplicate 3/ CSE TP-3 0-3 feet) for EPH and PAH analysis. Sample CSE TP-3 0-3 feet exhibited 337 ppm C11-C22 aromatic hydrocarbons, 9.85 ppm benzo(a)anthracene and 9.87 ppm chrysene. Duplicate 3/ CSE TP-3 0-3 feet exhibited 613 ppm C11-C22 aromatic hydrocarbons, 15.7 ppm benzo(a)anthracene and 16.4 ppm chrysene.

C11-C22 aromatic hydrocarbons

The difference between C11-C22 aromatic hydrocarbons at CSE TP-3 0-3 feet (337 ppm) and Duplicate 3/ CSE TP-3 0-3 feet (613 ppm) is 276 ppm. The average of the concentrations (337 ppm + 613 ppm is 950 divided by 2 is 475 ppm). The difference in concentration (276 ppm) divided by the average concentration (475 ppm) is 58%. However, the CAM indicates that the data must be less than or equal to 50%. As a result, the C11-C22 aromatic hydrocarbons analytical data for EPH/PAH soil samples obtained from the Site are technically considered unacceptable for the purpose of this Response Action Outcome. However, the disparity of sample concentrations may be attributed to a non-homogenous sample.

Chrysene

The difference between chrysene at CSE TP-3 0-3 feet (9.87 ppm) and Duplicate 3/ CSE TP-3 0-3 feet (16.4 ppm) is 6.53 ppm. The average of the concentrations (9.87 ppm + 16.4 ppm is 26.27 divided by 2 is 13.13 ppm). The difference in concentration (6.53 ppm) divided by the average concentration (13.13 ppm) is 49% falls within the 50% or less window. As a result, the chrysene analytical data for EPH/PAH soil samples obtained from the Site are considered acceptable for the purpose of this Response Action Outcome.

Benzo(a)anthracene

The difference between Benzo(a)anthracene at CSE TP-3 0-3 feet (9.85 ppm) and Duplicate 3/ CSE TP-3 0-3 feet (15.7 ppm) is 5.85 ppm. The average of the concentrations (9.85 ppm + 15.7 ppm is 25.55 divided by 2 is 12.77 ppm). The difference in concentration (5.85 ppm) divided by the average concentration (12.77 ppm) is 45% falls within the 50% or less window. As a result, the Benzo(a)anthracene analytical data for EPH/PAH soil samples obtained from the Site are considered acceptable for the purpose of this Response Action Outcome.

Duplicate 4

Common Sense submitted sample CSE TP-1 3-6 feet and a duplicate sample (Duplicate 4/ CSE TP-1 3-6 feet) for EPH and PAH analysis. Sample CSE TP-3 3-6 feet exhibited < 13.2 ppm C11-C22 aromatic hydrocarbons, <0.132 ppm benzo(a)anthracene and <0.132 ppm chrysene. Duplicate 4/ CSE TP-1 3-6 feet exhibited < 13.2 ppm C11-C22 aromatic hydrocarbons, 0.065 ppm benzo(a)anthracene and <0.132 ppm chrysene. MADEP requirements for Method 8270 Performance Standards for matrix duplicate Relative

Performance Difference (RPD) indicate that if the difference between the sample concentrations is less than five times the reporting limit then the data are acceptable.

C11-C22 aromatic hydrocarbons

The difference between C11-C22 aromatic hydrocarbons at CSE TP-1 3-6 feet (<13.2 ppm) and Duplicate 4/ CSE TP-1 3-6 feet (<13.2 ppm) is 0 ppm. The average of the concentrations is <13.2 ppm and the difference in concentration (0 ppm) divided by the average concentration (13.2 ppm) is 0%. As a result, the C11-C22 aromatic hydrocarbons analytical data for EPH/PAH soil samples obtained from the Site are considered acceptable for the purpose of this Response Action Outcome.

Chrysene

The difference between chrysene at CSE TP-1 3-6 feet (0.132 ppm) and Duplicate 4/ CSE TP-1 3-6 feet (0.132 ppm) is 0 ppm. The average of the concentrations is 0.132 ppm and the difference in concentration (0 ppm) divided by the average concentration (0.132 ppm) is 0% and falls within the 50% or less window. As a result, the chrysene analytical data for EPH/PAH soil samples obtained from the Site are considered acceptable for the purpose of this Response Action Outcome.

Benzo(a)anthracene

The difference between Benzo(a)anthracene at CSE TP-1 3-6 feet (0.132 ppm) and Duplicate 4/ CSE TP-1 3-6 feet (0.130 ppm) is 0.002 ppm. The average of the concentrations (0.132 ppm + 0.130 ppm is 0.26 divided by 2 is 0.13 ppm). The difference in concentration (0.002 ppm) divided by the average concentration (0.13 ppm) is 1% and remains within the 50% window. As a result, the Benzo(a)anthracene analytical data for EPH/PAH soil samples obtained from the Site are considered acceptable for the purpose of this Response Action Outcome.

Groundwater Analyses

The MADEP MCP Response Action Analytical Report Certification Form provided by GeoLabs indicates that all groundwater data in the report meet all the requirements for "Presumptive Certainty", as described in Section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data" for Methods EPH, 8082 and 6010B. As previously stated, the groundwater collected at CSE-1 for PCBs was not filtered prior to laboratory analysis. Further, no duplicate groundwater samples were collected as only one well was sampled. All other quality control performance standards were met for the aqueous samples and no other laboratory quality control observations were noted.

Appendix G Registry Certified AUL

BK 9289 PG 7
03/09/09 09:25 DOC. 5219
Bristol Co. S.D.

NOTICE OF ACTIVITY AND USE LIMITATION
M.G.L. c. 21E, § 6 and 310 CMR 40.0000

Disposal Site Name: Former Standard Times Site - Lot 3, 16 Blackmer Street, New Bedford, MA
DEP Release Tracking No.(s): 4-15490

This Notice of Activity and Use Limitation ("Notice") is made as of this 5th day of March 2009, by the Commonwealth of Massachusetts Department of Fish and Game located at 251 Causeway Street, Suite 400, Boston, Massachusetts 02114, together with his/her/its/their successors and assigns (collectively "Owner").

WITNESSETH:

WHEREAS, the Commonwealth of Massachusetts Department of Fish and Game, is the owner in fee simple of that certain parcel of vacant land located in New Bedford, Bristol County, Massachusetts, pursuant to a deed recorded with the Bristol County Registry of Deeds (Southern District) in Book 7642, Page 344;

WHEREAS, said parcel of land, which is more particularly bounded and described in Exhibit A, attached hereto and made a part hereof ("Property") is subject to this Notice of Activity and Use Limitation. The Property is shown on a plan recorded in the Bristol County Registry of Deeds (Southern District) in Plan Book 148, Plan 92,

WHEREAS, a portion of the Property ("Portion of the Property") is subject to this Notice of Activity and Use Limitation. The Portion of the Property is more particularly bounded and described in Exhibit A-1, attached hereto and made a part hereof. The Portion of the Property is shown on a plan recorded with the Bristol County Registry of Deeds (Southern District) in Plan Book 163, Plan 106, and/or on a sketch plan attached hereto and filed herewith for registration;

WHEREAS, the Portion of the Property comprises part of a disposal site as the result of a release of oil and/or hazardous material. Exhibit B is a sketch plan showing the relationship of the Portion of the Property subject to this Notice of Activity and Use Limitation to the boundaries of said disposal site existing within the limits of the Property and to the extent such boundaries have been established. Exhibit B is attached hereto and made a part hereof; and

WHEREAS, one or more response actions have been selected for the Portion of the Disposal Site in accordance with M.G.L. c. 21E ("Chapter 21E") and the Massachusetts Contingency Plan, 310 CMR 40.0000 ("MCP"). Said response actions are based upon (a) the restriction of human access to and contact with oil and/or hazardous material in soil and/or (b) the restriction of certain activities occurring in, on, through, over or under the Portion of the Property. The basis for such restrictions is set forth in an Activity and Use Limitation Opinion ("AUL Opinion"), dated March 5, 2009 (which is attached hereto as Exhibit C and made a part hereof);

NOW, THEREFORE, notice is hereby given that the activity and use limitations set forth in said AUL Opinion are as follows:

1. Activities and Uses Consistent with the AUL Opinion. The AUL Opinion provides that a condition of No Significant Risk to health, safety, public welfare or the environment exists for any foreseeable period of time (pursuant to 310 CMR 40.0000) so long as any of the following activities and uses occur on the Portion of the Property:

(i) Commercial and industrial activities and uses including, but not limited to, vehicular parking, pedestrian and vehicular traffic, passive recreation, landscaping, routine maintenance or any other use that does not compromise the structural integrity of the protective barrier, as defined in 3.(iv) and/or disturb contaminated soil located directly beneath the barrier;

(ii) Excavation associated with emergency or short term (three months or less) underground utility and/or construction work, provided it is conducted in accordance with a Soil Management Plan and a Health and Safety Plan in accordance with Obligations (i) and (ii) of this Notice; and involves the repair and/or replacement of the protective barrier with a comparable barrier immediately following the completion of the project;

(iii) Activities and uses that are not identified by this Notice as being inconsistent with maintaining a condition of No Significant Risk; and

(iv) Such other activities and uses which, in the Opinion of an LSP, shall present no greater risk of harm to health, safety, public welfare, or the environment than the activities and uses set forth in this paragraph.

2. Activities and Uses Inconsistent with the AUL Opinion. Activities and uses that are inconsistent with the objectives of this Notice of Activity and Use Limitation, and which, if implemented at the Portion of the Property, may result in a significant risk of harm to health, safety, public welfare or the environment or in a substantial hazard, are as follows:

(i) Use of the Property as a residence, school, nursery, daycare, recreational area and/or other such use at which a child's regular presence is likely

(ii) Activities and/or uses which are likely to involve the removal and/or disturbance of the protective barrier in the AUL Area and/or

the disturbance of the contaminated soil located beneath the protective barrier without prior development of a Soil Management Plan and a Health and Safety Plan in accordance with Obligations (i) and (ii) of this Opinion;

(iii) Relocation of the contaminated soil from beneath the protective barrier in the AUL Area unless an LSP renders an Opinion that states such relocation is consistent with maintaining a condition of No Significant Risk; and

(iv) Activities and/or uses that may cause physical or chemical deterioration, breakage, or structural damage to the protective barrier.

3. Obligations and Conditions Set Forth in the AUL Opinion. If applicable, obligations and/or conditions to be undertaken and/or maintained at the Portion of the Property to maintain a condition of No Significant Risk as set forth in the AUL Opinion shall include the following:

(i) A Soil Management Plan must be prepared by an LSP and implemented prior to the commencement of any activity that is likely to disturb the contaminated soil located immediately beneath the protective barrier. The Soil Management Plan must be prepared in accordance with the guidelines discussed in the Activity and Use Limitation opinion attached hereto as Exhibit C;

(ii) A Health and Safety Plan must be prepared and implemented in accordance with the guidelines discussed in the Activity and Use Limitation Opinion attached hereto as Exhibit C prior to the commencement of any activity that involves the removal and/or disturbance of the protective barrier and/or is likely to disturb the underlying contaminated soil within the AUL Area;.

(iii) The protective barrier within the AUL Area must be repaired and/or replaced with a comparable barrier to prevent future exposures to underlying contaminated soil immediately following the completion of any activity that involves its removal and/or disturbance;

(iv) The protective barrier shall consist of either a minimum of 3-inches of asphalt pavement (or concrete), 3-feet of clean soil or a building

(v) The protective barrier must be maintained within the designated AUL area to ensure that the contaminated soil located beneath the barrier remains inaccessible; and

(vi) Annual inspections and associated record-keeping activities must be performed to confirm that the barrier is being properly maintained to prevent exposure(s) to contaminated soil located immediately beneath the protective barrier.

4. Proposed Changes in Activities and Uses. Any proposed changes in activities and uses at the Portion of the Property that may result in higher levels of exposure to oil and/or hazardous material than currently exist shall be evaluated by an LSP who shall render an Opinion, in accordance with 310 CMR 40.1080 *et seq.*, as to whether the proposed changes will present a significant risk of harm to health, safety, public welfare or the environment. Any and all requirements set forth in the Opinion to meet the objective of this Notice shall be satisfied before any such activity or use is commenced.

5. Violation of a Response Action Outcome. The activities, uses and/or exposures upon which this Notice is based shall not change at any time to cause a significant risk of harm to health, safety, public welfare, or the environment or to create substantial hazards due to exposure to oil and/or hazardous material without the prior evaluation by an LSP in accordance with 310 CMR 40.1080 *et seq.*, and without additional response actions, if necessary, to achieve or maintain a condition of No Significant Risk or to eliminate substantial hazards.

If the activities, uses, and/or exposures upon which this Notice is based change without the prior evaluation and additional response actions determined to be necessary by an LSP in accordance with 310 CMR 40.1080 *et seq.*, the owner or operator of the Portion of the Property subject to this Notice at the time that the activities, uses and/or exposures change, shall comply with the requirements set forth in 310 CMR 40.0020.

6. Incorporation Into Deeds, Mortgages, Leases, and Instruments of Transfer. This Notice shall be incorporated either in full or by reference into all future deeds, easements, mortgages, leases, licenses, occupancy agreements or any other instrument of transfer, whereby an interest in and/or a right to use the Property or a portion thereof is conveyed.

Owner hereby authorizes and consents to the filing and recordation and/or registration of this Notice, said Notice to become effective when executed under seal by the undersigned LSP, and recorded and/or registered with the appropriate Registry(ies) of Deeds and/or Land Registration Office(s).

WITNESS the execution hereof under seal this 25th day of February, 2009.

Commonwealth of Massachusetts, Department of Fish and Game

By: Mary B. Griffin
Commissioner

COMMONWEALTH OF MASSACHUSETTS

Bristol, ss February 25, 2009

On this 25th day of February, 2009, before me, the undersigned notary public, personally appeared Mary B. Griffin, proved to me through satisfactory evidence of identification, which were personal knowledge, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that she signed it voluntarily for its stated purpose as Commissioner of the Commonwealth of Massachusetts Department of Fish and Game.

GLENDA L. DIFILIPPO
NOTARY PUBLIC
Commonwealth of Massachusetts
My Commission Expires
October 31, 2014

The undersigned LSP hereby certifies that he executed the aforesaid Activity and Use Limitation Opinion attached hereto as Exhibit C and made a part hereof and that in his Opinion this Notice of Activity and Use Limitation is consistent with the terms set forth in said Activity and Use Limitation Opinion.

COMMONWEALTH OF MASSACHUSETTS
KEVIN J. BEAULIEU
NO. 1699
REGISTERED
LICENSED SITE PROFESSIONAL

Date: March 5, 2009

Kevin J. Beaulieu, LSP

COMMONWEALTH OF MASSACHUSETTS

Bristol, ss

March 5, 2009

On this 5 day of March, 2009, before me, the undersigned notary public, personally appeared Kevin J. Beaulieu, proved to me through satisfactory evidence of identification, which were license, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose as LSP for Commonwealth of Massachusetts Department of Fish and Game.

Michelle Barrera

Upon recording, return to:

Commonwealth of Massachusetts Department of Fish and Game
251 Causeway Street, Suite 400
Boston, MA 02114

MICHELLE BARRERA

EXHIBIT A

(Description of Parcel of Land Containing Area Subject to AUL)

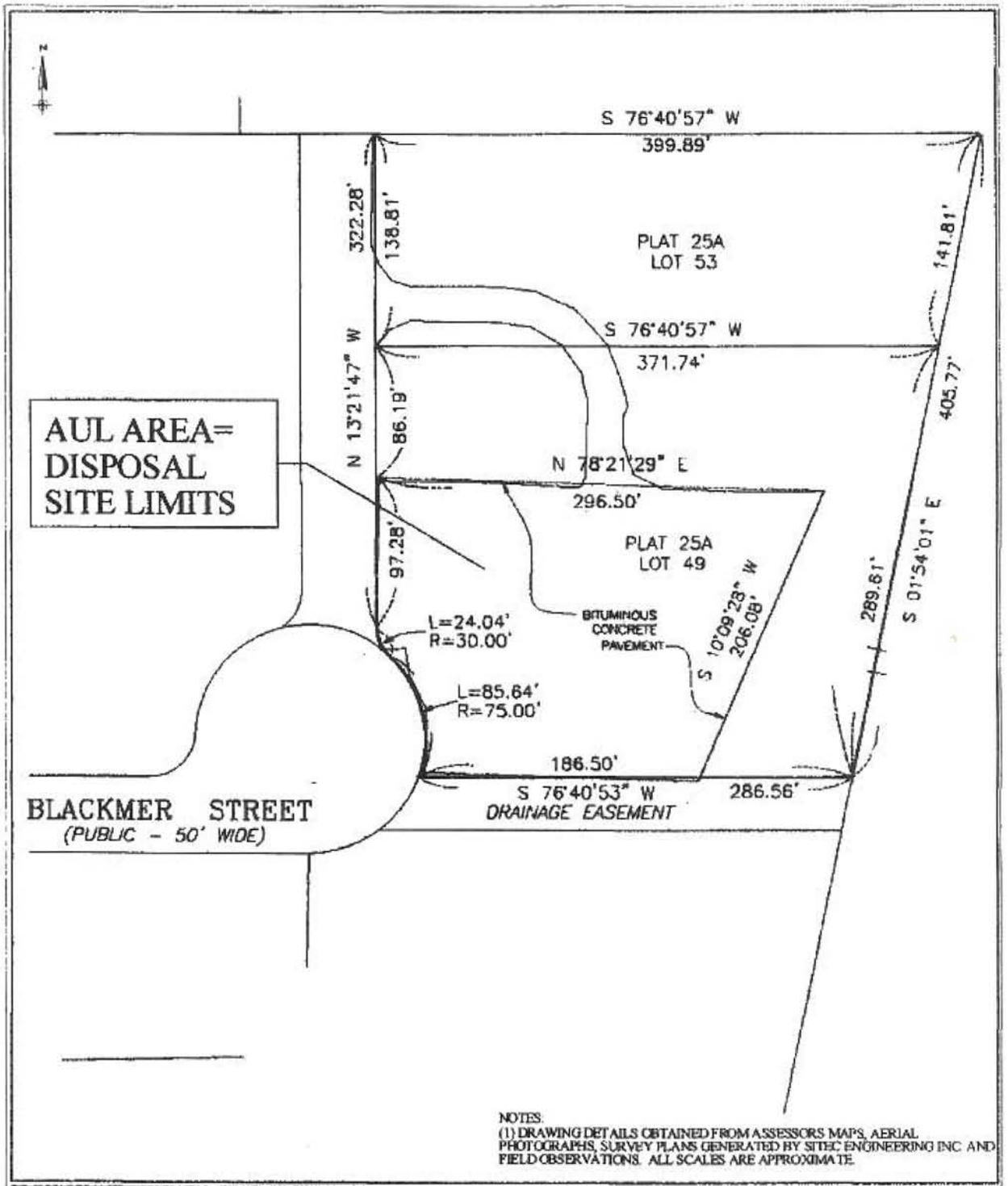
A certain parcel of land shown as Lot 3B on a Plan entitled "Approval Not Required Plan of Land located in New Bedford, MA prepared for City of New Bedford Redevelopment Authority", Scale 1"=60', dated November 21, 2001, prepared by Kenneth R. Ferreira Engineering, Inc., New Bedford, MA, recorded in the Bristol County Registry of Deeds in Plan Book 148 at Page 92, and being more particularly bounded and described as follows:

BEGINNING	at a point on the easterly side of a cul-de-sac of said Blackmer Street marking the southwest corner of the parcel herein described as shown on said Plan; thence
Northwesterly	on a curve to the left with a radius of 75.00 feet an arc distance of 85.64 feet by said cul-de-sac of Blackmer Street to a point as shown on said Plan; thence
Northerly	on a curve to the right with a radius of 30.00 feet an arc distance of 24.04 feet by said cul-de-sac of Blackmer Street and by Lot 2B to a point as shown on said Plan; thence
N 13° 21' 47" W	one hundred eighty-three and 45/100 (183.45) feet by said Lot 2B to a point marking the northwest corner of the parcel herein described and the southwest corner of Lot 3A as shown on said Plan; thence
S 76° 40' 57" W	three hundred seventy-one and 74/100 (371.74) feet by said Lot 3A to a point marking the northeast corner of the parcel herein described and the southeast corner of said Lot 3A as shown on said Plan; thence
S 01° 54' 01" E	two hundred eighty-nine and 61/100 (289.61) feet to a point as shown on said Plan; thence
S 76° 40' 53" W	two hundred ninety-six and 56/100 (296.56) feet to the PLACE OF BEGINNING, containing 95,197 square feet of land, more or less, as shown on said Plan.

EXHIBIT A-1
(Description of Area Subject to AUL)

That certain portion of a parcel of land, said parcel of land being situated in New Bedford, Bristol County, Massachusetts, and being shown as Lot 3B on the aforementioned plan recorded with said Deeds in Plan Book 148, Page 92, said portion being shown as the "Activity and Use Limitation Area" on a plan entitled, "Activity and Use Limitation Plan of Land in New Bedford, MA", dated December 2, 2008, Scale 1"=40', prepared by SITEC, Inc., Dartmouth, Massachusetts, and recorded with the Bristol County Registry of Deeds in Plan Book 163, Page 106 and being more particularly bounded and described as follows:

BEGINNING	AT A POINT IN THE EASTERLY SIDELINE OF BLACKMER STREET, SAID POINT BEING THE SOUTHWEST CORNER OF THE PARCEL SHOWN AS LOT 3B ON PLAN RECORDED AT PLAN BOOK 148 PAGE 92 IN THE BRISTOL COUNTY REGISTRY OF DEEDS; THENCE
NORTHWESTERLY	ON A CURVE TO THE LEFT WITH A RADIUS OF 75.00 FEET AN ARC DISTANCE OF 85.64 FEET TO A POINT; THENCE
NORTHERLY	ON A CURVE TO THE RIGHT WITH A RADIUS OF 30.00 FEET AN ARC DISTANCE OF 24.04 FEET TO A POINT; THENCE
N 13°21 '47" W	NINETY-SEVEN AND 28/100 FEET (97.28') TO A POINT; THENCE
N 78°21'29" E	TWO HUNDRED NINETY-SIX AND 50/100 FEET (296.50') TO A POINT; THENCE
S 10°09'28" W	TWO HUNDRED SIX AND 08/100 FEET (206.08') TO A POINT; THENCE
S 76°40'53" W	ONE HUNDRED EIGHTY-SIX AND 50/100 FEET (186.50') TO THE POINT OF BEGINNING, CONTAINING 47,368 SQUARE FEET OF LAND, MORE OR LESS.



NOTES:
(1) DRAWING DETAILS OBTAINED FROM ASSESSORS MAPS, AERIAL PHOTOGRAPHS, SURVEY PLANS GENERATED BY SITEC ENGINEERING INC AND FIELD OBSERVATIONS. ALL SCALES ARE APPROXIMATE.

DRAWN BY: KJB PROJ. MGR: KJB PROJECT NO: W024 SCALE: 1" = 100' DATE: 12/04/08	GRAPHICAL SCALE 0 50 100 200 COMMON SENSE ENVIRONMENTAL, INC. 50 THERESA STREET DARTMOUTH, MASSACHUSETTS 02748 PHONE: 508-991-3491	SKETCH PLAN COMMERCIAL PROPERTY 16 BLACKMER STREET NEW BEDFORD, MASSACHUSETTS	EXHIBIT: B

Exhibit C
LSP Activity & Use Limitation Opinion

In accordance with the requirements of 310 CMR 40.1074, this Licensed Site Professional (LSP) Opinion has been prepared in support of the Notice of Activity and Use Limitation (AUL) for a portion of the parcel of land identified on City of New Bedford Assessor's Plat 25A as Lot 49, and addressed as 16 Blackmer Street, New Bedford, Massachusetts (the Property). At the time of the recording of this AUL, the 2.185 acre parcel of vacant land is located within a working waterfront district zoned for industrial use. As illustrated in Exhibit B attached hereto, a large paved parking area occupies the southernmost portion of the Property. A City drainage easement abuts the southern Property line.

Site History

Multiple 21E investigations conducted at the Property have identified elevated levels of lead, petroleum hydrocarbons and polycyclic aromatic hydrocarbons (PAH's) in soil, likely attributable to the presence of historic urban fill emplaced along the New Bedford waterfront area. The Department of Environmental Protection (DEP) was notified of the release condition (lead and PAH), and Phase I and Phase II site investigations were completed at the site to define the extent and magnitude of contamination. The primary contaminant of concern was identified as lead and was detected at concentrations ranging from 42 mg/kg to 287 mg/kg in surface and subsurface soil (from 0 to 8 feet in depth) situated throughout the unpaved northern portion of the Property. Higher levels of lead were found in soil samples collected from the same depths beneath the currently paved southern portion of the Property at concentrations ranging from 30 to 5780 mg/kg. Other contamination detected above state reportable concentrations identified at the site generally mirrored the locations and trends exhibited by lead and specifically consisted of Benzo(a)pyrene at concentrations as high as 13 mg/kg; Dibenzo(a,h)anthracene at concentrations as high as 10 mg/kg; and petroleum hydrocarbons at concentrations as high as 900 mg/kg. Groundwater monitoring has adequately demonstrated that the release has not affected groundwater.

Reason for Activity and Use Limitation

A Method 3 Risk Characterization was prepared to support a Response Action Outcome for the site. The Risk Characterization concluded that No Significant Risk to human health, safety, public welfare, and the environment exists for activities and uses consistent with current commercial/industrial uses of the Property including emergency utility work and/or any construction projects. However, a level of No Significant Risk is not supported for future unrestricted activities and uses of the southern paved portion of the Property, such as those which may result in a child's exposure through direct contact with and/or ingestion of the contaminated soil. In order to maintain a level of No Significant Risk for future foreseeable site activities and uses, an Activity and Use Limitation is necessary to ensure that the soil currently located beneath the paved area located on the southern portion of the Property remains inaccessible and the exposure pathways remain incomplete. To that end, the Activity and Use Limitation will require the maintenance of the current pavement or other suitable physical barrier (including

buildings and concrete sidewalks) so that direct contact with underlying soils is not possible by visitors to the subject Property. In addition, activities which may result in the disturbance or relocation of the underlying soil to more accessible areas must also be restricted. The following presents said obligations and conditions as provided in the Activity and Use Limitation.

Permitted Uses and Activities

(i) Commercial and industrial activities and uses including, but not limited to, vehicular parking, pedestrian and vehicular traffic, passive recreation, landscaping, routine maintenance or any other use that does not compromise the structural integrity of the protective barrier, as defined in 3.(iv) and/or disturb contaminated soil located directly beneath the barrier;

(ii) Excavation associated with emergency or short term (three months or less) underground utility and/or construction work, provided it is conducted in accordance with a Soil Management Plan and a Health and Safety Plan in accordance with Obligations (i) and (ii) of this Notice; and involves the repair and/or replacement of the protective barrier with a comparable barrier immediately following the completion of the project;

(iii) Activities and uses that are not identified by this Notice as being inconsistent with maintaining a condition of No Significant Risk; and

(iv) Such other activities and uses which, in the Opinion of an LSP, shall present no greater risk of harm to health, safety, public welfare, or the environment than the activities and uses set forth in this paragraph.

Restricted Uses and Activities

(i) Use of the Property as a residence, school, nursery, daycare, recreational area and/or other such use at which a child's regular presence is likely;

(ii) Activities and/or uses which are likely to involve the removal and/or disturbance of the protective barrier in the AUL Area and/or the disturbance of the contaminated soil located beneath the protective barrier without prior development of a Soil Management Plan and a Health and Safety Plan in accordance with Obligations (i) and (ii) of this Opinion;

(iii) Relocation of the contaminated soil from beneath the protective barrier in the AUL Area unless an LSP renders an Opinion that states such relocation is consistent with maintaining a condition of No Significant Risk; and

(iv) Activities and/or uses that may cause physical or chemical deterioration, breakage, or structural damage to the protective barrier.

Obligations and Conditions

(i) A Soil Management Plan must be prepared by an LSP and implemented prior to the commencement of any activity that is likely to disturb the contaminated soil located immediately beneath the protective barrier. The Soil Management Plan should describe appropriate soil excavation, handling, storage, transport, and disposal procedures and include a description of the engineering controls and air monitoring procedures necessary to ensure that workers and receptors in the vicinity are not affected by fugitive dust or particulates. On-site workers must be informed of the requirements of the Soil Management Plan, and the plan must be available on-site throughout the course of the project;

(ii) A Health and Safety Plan must be prepared by a Certified Industrial Hygienist or other qualified individual sufficiently trained in worker health and safety requirements and implemented prior to the commencement of any activity which involves the removal and/or disturbance of the protective barrier and/or is likely to disturb the underlying contaminated soil, rendering it more accessible. The plan should clearly describe the location of the contaminated soil and specifically identify the types of personal protective equipment, monitoring devices, and engineering controls necessary to ensure that workers are not exposed to the contaminated soil through dermal contact, ingestion, and/or the inhalation of particulate dusts. Workers who may come in contact with contaminated soil within the designated AUL area must be informed of the location of the contamination and all requirements of the Health and Safety Plan. The plan must be available on-site throughout the course of the project;

(iii) The protective barrier within the AUL Area must be repaired and/or replaced with a comparable barrier to prevent future exposures to underlying contaminated soil immediately following the completion of any activity that involves its removal and/or disturbance;

(iv) The protective barrier shall consist of either a minimum of 3-inches of asphalt pavement (or concrete), 3-feet of clean soil or a building;

(v) The protective barrier must be maintained within the designated AUL area to ensure that the contaminated soil located beneath the barrier remains inaccessible; and

(vi) Annual inspections and associated record-keeping activities must be performed to confirm that the barrier is being properly maintained to prevent exposure(s) to contaminated soil located immediately beneath the protective barrier.

Kevin Beaulieu

Kevin J. Beaulieu, LSP

COMMONWEALTH OF MASSACHUSETTS
KEVIN J. BEAULIEU
NO. 1699
REGISTERED
LICENSED SITE PROFESSIONAL

March 5, 2009

Date

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC113A

ACTIVITY & USE LIMITATION (AUL) OPINION FORM

Pursuant to 310 CMR 40.1056 & 40.1070 - 40.1084 (Subpart J)

Release Tracking Number
4 - 15490

A. DISPOSAL SITE LOCATION:

1. Disposal Site Name: LOT 3 - FORMER STANDARD TIMES SITE

2. Street Address: BLACKMER ST

3. City/Town: NEW BEDFORD 4. ZIP Code: 02740-0000

B. THIS FORM IS BEING USED TO: (check one)

☑ 1. Provide the LSP Opinion for a **Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1074.

☐ 2. Provide the LSP Opinion for an **Evaluation of Changes in Land Uses/Activities and/or Site Conditions after a Response Action Outcome Statement**, pursuant to 310 CMR 40.1080. Include BWSC113A as an attachment to BWSC113. Section A and C do not need to be completed.

☐ 3. Provide the LSP Opinion for an **Amended Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1081(4).

☐ 4. Provide the LSP Opinion for a **Partial Termination of a Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1083(3).

☐ 5. Provide the LSP Opinion for a **Termination of a Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1083(1)(d).

☐ 6. Provide the LSP Opinion for a **Grant of Environmental Restriction**, pursuant to 310 CMR 40.1071.

☐ 7. Provide the LSP Opinion for an **Amendment of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1081(3).

☐ 8. Provide the LSP Opinion for a **Partial Release of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1083(2).

☐ 9. Provide the LSP Opinion for a **Release of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1083(1)(c).

☐ 10. Provide the LSP Opinion for a **Confirmatory Activity and Use Limitation**, pursuant to 310 CMR 40.1085(4).

(Unless otherwise noted above, all sections of this form (BWSC113A) must be completely filled out, printed, stamped, signed with black ink and attached as an exhibit to the AUL Document to be recorded and/or registered with the Registry of Deeds and/or Land Registration Office.)

C. AUL INFORMATION:

1. Is the address of the property subject to AUL different from the disposal site address listed above?

☐ a. No ☑ b. Yes If yes, then fill out address section below.

2. Street Address: 16 BLACKMER STREET

3. City/Town: NEW BEDFORD 4. ZIP Code: 02719-0000

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC113A

ACTIVITY & USE LIMITATION (AUL) OPINION FORM

Pursuant to 310 CMR 40.1056 & 40.1070 - 40.1084 (Subpart J)

Release Tracking Number
4 - 15490

D. 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 indicates that a **Notice of Activity and Use Limitation** is being registered and/or recorded*, the Activity and Use Limitation that is the subject of this submittal (i) is being provided in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 310 CMR 40.1074;

> *if Section B indicates that an **Evaluation of Changes in Land Uses/Activities and/or Site Conditions after a Response Action Outcome Statement*** is being submitted, this evaluation was developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 310 CMR 40.1080;

> *if Section B indicates that an **Amended Notice of Activity and Use Limitation or Amendment to a Grant of Environmental Restriction** is being registered and/or recorded*, the Activity and Use Limitation that is the subject of this submittal (i) is being provided in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 40.1081;

> *if Section B indicates that a **Termination or a Partial Termination of a Notice of Activity and Use Limitation, or a Release or Partial Release of a Grant of Environmental Restriction** is being registered and/or recorded*, the Activity and Use Limitation that is the subject of this submittal (i) is being provided in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 310 CMR 40.1083;

> *if Section B indicates that a **Grant of Environmental Restriction** is being registered and/or recorded*, the Activity and Use Limitation that is the subject of this submittal (i) is being provided in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 310 CMR 40.1071;

> *if Section B indicates that a **Confirmatory Activity and Use Limitation** is being registered and/or recorded*, the Activity and Use Limitation that is the subject of this submittal (i) is being provided in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 310 CMR 40.1085(4);

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 #: 1699
2. First Name: KEVIN J
3. Last Name: BEAULIEU
4. Telephone: (508) 863-3102
5. Ext.:
6. FAX:
7. Signature: Kevin Beaulieu
8. Date: 03/05/2009 mm/dd/yyyy
9. LSP Stamp:

COMMONWEALTH OF MASSACHUSETTS
KEVIN J. BEAULIEU
NO. 1699
REGISTERED
LICENSED SITE PROFESSIONAL

A true copy of instrument is recorded in Bristol County (S.D.) Registry of Deeds in Book 9289 Page 7
ATTEST: [illegible]
REGISTER

Appendix H Public Notification

Kevin B.

September 19, 2006

Mr. Scott Alphonse, Director
City of New Bedford
Environmental Stewardship
133 William Street, Room 311
New Bedford, MA 02744

Re: Notice of Environmental Sampling at easement located south of
16 Blackmer Street, New Bedford, MA
Release Tracking Number: 4-015490

Dear Mr. Alphonse:

Common Sense Environmental, Inc., has prepared this letter to memorialize our multiple discussions relative to the results of recent environmental sampling programs completed at the above referenced project address. As you are aware, the 16 Blackmer Street property (Property) is presently owned by the Commonwealth of Massachusetts/Department of Fish and Game/Division of Marine Fisheries and has been the subject of multiple, historic site assessments to evaluate environmental conditions resulting from its commercial and historical use along the New Bedford waterfront. The subject Property was formerly owned by the New Bedford Redevelopment Authority and was part of the former New Bedford Standard Times Field Site. It is currently listed as a Tier II Waste Site (RTN 4-15490) with the Massachusetts Department of Environmental Protection (MADEP). In May 2006, shortly after purchase of the land, the Property owner contracted Common Sense to implement a Phase II Scope of Work at the subject Property in an attempt to define the limits and extent of previously identified contaminants. The result of the assessment allowed for the immediate and subsequent closure of the northern portion of the Property via a "partial" Class B1 Response Action Outcome, filed on July 31, 2006. A copy of the RAO can be reviewed at the MADEP Southeast Region, 20 Riverside Drive, Lakeville, Massachusetts. Please note that Kevin J. Beaulieu, is the Licensed Site Professional (LSP #1699) of Record for the subject Site.

During subsequent activities aimed at developing an Activity and Use Limitation for the southern portion of the Property it was realized that the southern easement is presently owned by the City of New Bedford. Common Sense first contacted you on August 7, 2006, immediately after realizing this fact and personally met with you on August 25, 2006 to explain the situation.

The intent of this correspondence is to comply with 310 CMR 40.1403(9) and 310 CMR 40.1404 and to serve as cover to the attached environmental data collected at the above easement owned by the City of New Bedford. One borehole (BH6), converted into a groundwater monitoring well (CSE-1,) and four (4) test pits were completed at the southeast corner of the easement owned by the City of New Bedford. The test pits surround the groundwater monitoring well. The soil and groundwater data generated at the City of New Bedford easement are summarized in the following tables and copies of laboratory data are attached. The attached BWSC Form 123 – Notice of Environmental Sampling will be included in the next report submittal to the MADEP.

50 Theresa Street
South Dartmouth, Massachusetts 02748
e-mail: csense@empire.net

Telephone: 508-991-3491
508-726-0902
Fax: 508-992-5039

TABLE 1

Soil Analysis Summary Table

16 Blackmer Street, New Bedford, Massachusetts

Soil (mg/kg = parts per million)

Sample ID	Date	Depth	Lead	PCB's (Aroclor 1254)	Extractable Petroleum Hydrocarbons: C9-C18 Aliphatic	C19-C36 Aliphatic	C11-C22 Aromatic	Asbestos	Coal Ash
BH6	5/25/06	0.0-2.5 ft	[illegible]	-	11.4	109	[illegible]	nd	-
BH6	5/25/06	2.5-5.0	[illegible]	nd	329	108	[illegible]	-	Bituminous coal with some slag
BH6	5/25/06	5.0-7.5	[illegible]	-	-	-	-	-	-
BH6A	6/12/06	2.5-6.0	[illegible]	191	-	-	-	-	-
BH6B	6/12/06	2.5-6.0	209	-	-	-	-	-	-
			[illegible]	-	-	-	-	-	-
BH6C	6/12/06	2.5-6.0							
BH6D	6/12/06	2.5-6.0	[illegible]	-	-	-	-	-	-
								-	-
Reportable Concentration S1			300	2	1000	2500	200		ns
Reportable Concentration S2			300	2	2500	5000	2000		ns
MCP Background – urban fill			600	ns	ns	ns	ns		ns

Notes: nd = not detected - = compound not analyzed ns = no standards

[illegible] denotes compound detected above the most stringent (RCS1) MCP Reportable Concentrations

TABLE 2

Soil Analysis Summary Table

16 Blackmer Street, New Bedford, Massachusetts

All results reported in **(mg/kg = parts per million)**

Sample ID	Date	Depth	2-Methyl Naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo-a-anthracene	Benzo-a-pyrene	Benzo-b-flouranthene	Benzo-ghi-perylene	Benzo-k-flouranthene	Chrysene	Dibenzo-ah-anthracene	Flouranthene	Flourene	Indeno-123-cd-pyrene	Naphthalene	Phenanthrene	Pyrene
			PAH's																
BH6	5/25/06	0.0-2.5	nd	2.11	1.43	5.45	[illegible]	nd	nd	nd	nd	[illegible]	nd	47	2.98	nd	1.39	38.3	40.9
BH6	5/25/06	2.5-5.0	nd	0.222	0.538	1.18	6.05	nd	nd	nd	nd	[illegible]	nd	18.4	0.649	nd	0.207	14.0	17.9
Reportable Concentration S1			4	20	100	1000	7	2	7	1000	70	7	0.7	1000	400	7	4	100	1000
Reportable Concentration S2			1000	2500	1000	2500	40	4	40	2500	2500	10	4	3000	2000	40	40	100	3000
MCP Background – urban fill			1	2	1	4	9	7	8	3	4	7	1	10	2	3	1	20	20

Notes:

nd = not detected

- = compound not analyzed

ns = no standards

[illegible] denotes compound detected above the most stringent (RCS1) MCP Reportable Concentrations

TABLE 3
Groundwater Analysis Summary Table

16 Blackmer Street, New Bedford, Massachusetts

All results reported in (ug/L = parts per billion)

Sample ID	Date	Dissolved Lead	PCB's (Aroclor 1254)	Extractable Petroleum Hydrocarbons C9-C18 Aliphatic	C19-C36 Aliphatic	C11-C22 Aromatic	PAH's
CSE-1	5/28/06	nd	[illegible]	nd	nd	nd	nd
Reportable Concentration GW1		20	0.3	1000	5000	200	var
Reportable Concentration GW2		10	0.3	1000	20000	30000	var

Notes:

nd = not detected

- = compound not analyzed

ns = no standards

[illegible] denotes compound detected above the most stringent (RCS1) MCP Reportable Concentrations

In general, you should be aware that the subject release appears to be related to the presence of urban fill located throughout the waterfront area and based on the above, extends onto the former easement presently owned by the City of New Bedford. Please note that several contaminants detected on your property exceed DEP promulgated risk based standards. However, on-going risk assessment evaluations (considering this data) and the development of feasible remedial or site closure strategies will be complete for the south area of 16 Blackmer Street in the next 2-3 months. As suggested during our recent discussions, incorporation of the former easement in the closure package is a viable possibility and Common Sense would be willing to discuss this potential with you or your environmental consultant at any time. You should be aware that based on the fact that the former easement was included within the boundaries of the former Standard Times Site (referenced above), it is thereby also linked to the current RTN for 16 Blackmer Street and will likely require some level of response action or assessment. In light of this, it may be in your best interest to pursue this option. Regardless of your decision, we would like to once again thank you for your time and patient understanding with respect to this issue.

Should you have any questions or require additional information, please feel free to contact this office at any time.

Sincerely,
For Common Sense Environmental, Inc.

Cynthia S. Gilchrest 9/19/06

Cynthia S. Gilchrest
President

Attachment: BWSC 123
Laboratory data

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to Release Tracking Number

4 | 15490

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 16 Blackmer Street

City/Town: New Bedford Zip Code: 02740

B. This notice is being provided to the following party:

1. Name: City of New Bedford/Environmental Stewardship

2. Street Address: 133 William Street

City/Town: New Bedford Zip Code: 02744

C. This notice is being given to inform its recipient (the party listed in Section B):

☑ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.

☑ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.

☑ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: City of New Bedford south adjacent easement

City/Town: New Bedford Zip Code: 02740

2. MCP phase of work during which the sampling will be/has been conducted:

☐ Immediate Response Action
☐ Release Abatement Measure
☐ Utility-related Abatement Measure
☐ Phase I Initial Site Investigation
☐ Phase II Comprehensive Site Assessment
☐ Phase III Feasibility Evaluation
☐ Phase IV Remedy Implementation Plan
☐ Phase V/Remedy Operation Status
☐ Post-Class C Operation, Maintenance and Monitoring
☑ Other RAO (specify)

3. Description of property where sampling will be/has been conducted:

☐ residential ☐ commerical ☐ industrial ☐ school/playground ☑ Other vacant easement (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

One soil boring (BH-6) converted into a groundwater monitoring well (CSE-1) and four (4) test pits (BH6A, BH6B, BH6C AND BH6D) surrounding the groundwater monitoring well. Groundwater monitoring well is located at southeast corner of New Bedford easement.

E. Contact information related to the party providing this notice:

Contact Name: Cynthia Gilchrest @ Common Sense Environmental, Inc

Street Address: 50 Theresa Street

City/Town: South Dartmouth Zip Code: 02748

Telephone: (508) 991-3491 Email: csense@empire.net

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at http://www.mass.gov/dep/cleanup/oview.htm. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See http://mass.gov/dep/about/region/schedule.htm if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Common Sense Environmental, Inc.
50 Theresa Street
South Dartmouth, MA 02748

Attention: Cynthia Gilchrest
STL Job #: 760-605-0113
Billing Ref.: Project# BH2, TP-1, BH6

June 5, 2006

Dear Cynthia:

Please find enclosed five (5) PLM digital photomicrographs, five (5) SEM digital photomicrographs and five (5) EDX spectra of the black material detected in the samples submitted for coal/coal flyash identification by SEM/EDX and PLM.

METHODS:

A portion of the samples were dried in a drying oven to remove moisture and then examined under a stereomicroscope. Several black grains, consistent in appearance to coal or coal flyash, were picked out of the dried soil samples. The black grains were ground into a powder with a mortar and pestle and mounted in index of refraction liquid (n=1.605) on a glass slide for the Polarized Light Microscope (PLM) examination. Another portion of these black grains were mounted on double-sided tape and coated with evaporated graphite, which improves image quality. The samples were then examined under a Scanning Electron Microscope (SEM). An Energy Dispersive X-Ray (EDX) analysis was conducted during the SEM examination of these grains to determine their elemental composition. Photomicrographs were taken of the samples both by PLM and by SEM to document the morphology of the grains.

FINDINGS:

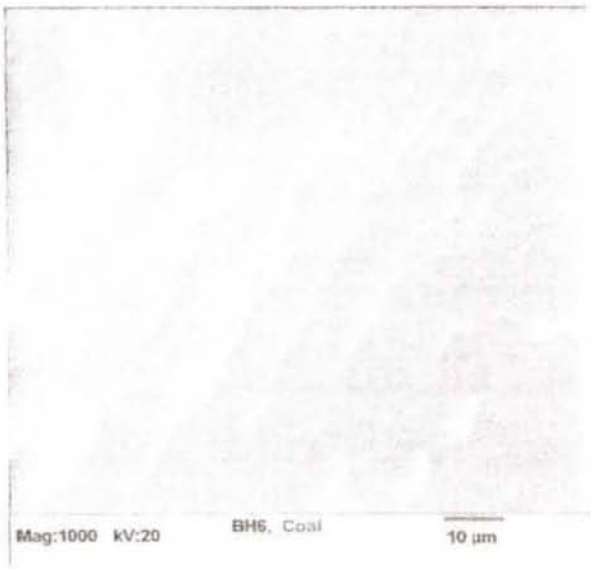
BH2 4-6.5':

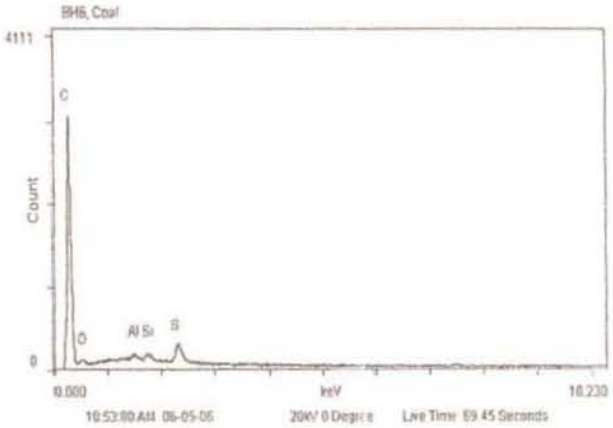
Please refer to the PLM and SEM photomicrographs as well as the EDX spectra. Two types of suspect particles were found in the first sample. The first particle type showed irregularly shaped opaque grains with an amber to black color and smooth surface features. When ground in the mortar and pestle these grains were soft in texture. The particles did not dissolve in the index of refraction oil under PLM examination, and showed mineral-like fragments with both rounded and sharp edges.

BH6 2.5-5':

Only one suspect particle type was observed in this sample. The particles showed irregularly shaped brown opaque grains smooth surface features. When ground in the mortar and pestle these grains were soft in texture. The particles did not dissolve in the index of refraction oil under PLM examination.

SEM examination demonstrated smooth surfaces marked by sharp, curved conchoidal fracture patterns along the surface of the sample. The EDX spectrum shows a very strong peak concentration of carbon, moderate to low peak concentration of sulfur, with lower amounts of oxygen, aluminum and silicon. The morphology and chemical composition of these grains are consistent with bituminous coal.





DISCUSSION:

The EDX data, texture and morphology of the grains as seen by the PLM and SEM in sample BH2 was consistent for a moderate concentration of bituminous coal and a heavy loading of coal ash.

Sample TP-1 contained a moderate to heavy loading of bituminous coal, and a heavy concentration of coal ash.

There was a moderate concentration of bituminous coal in sample BH6 along with some slag.

If you have further questions or need additional information, please contact client services or me at any time.

Sincerely,

Ernest T. Dobi

Ernest T. Dobi, Ph.D
Manager, Microscopy Services

NOTICE OF ACTIVITY AND USE LIMITATION

LOT 3 OF THE FORMER STANDARD TIMES SITE
16 BLACKMER STREET, NEW BEDFORD, MASSACHUSETTS
RELEASE TRACKING NUMBER 4-15490

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. On March 9, 2009, the Commonwealth of Massachusetts Department of Fish and Game recorded with the Bristol County Registry of Deeds a NOTICE OF ACTIVITY AND USE LIMITATION (Book 9289, Page 7) on the disposal site, pursuant to 310 CMR 40.1070 through 40.1080.

The NOTICE OF ACTIVITY AND USE LIMITATION will limit the following site activities and uses on the above property:

- Use of the Property as a residence, school, nursery, daycare, recreational area and/or other such use at which a child's regular presence is likely

- Activities and/or uses which are likely to involve the removal and/or disturbance of the protective barrier in the AUL Area and/or the disturbance of the contaminated soil located beneath the protective barrier without prior development of a Soil Management Plan and a Health and Safety Plan in accordance with Obligations (i) and (ii) of this Opinion;

- Relocation of the contaminated soil from beneath the protective barrier in the AUL Area unless an LSP renders an Opinion that states such relocation is consistent with maintaining a condition of No Significant Risk; and

- Activities and/or uses that may cause physical or chemical deterioration, breakage, or structural damage to the protective barrier.

Any person interested in obtaining additional information about the NOTICE OF ACTIVITY AND USE LIMITATION may contact Mary B. Griffin, Commissioner of the Commonwealth of Massachusetts Department of Fish and Game located at 251 Causeway Street, Suite 400, Boston, Massachusetts 02114.

The NOTICE OF ACTIVITY AND USE LIMITATION and the disposal site file can be reviewed at the MassDEP, Southeast Regional Offices, 20 Riverside Drive, Lakeville, Massachusetts (508) 946-2700.

Kevin Beaulieu

From: Cynthia Gilchrest [comsenseenv@comcast.net]
Sent: Thursday, March 26, 2009 4:38 PM
To: Kevin Beaulieu - Bus.
Subject: Fw: confirmation for ad request

----- Original Message -----
From: Leger, Luiza
To: Cynthia Gilchrest
Sent: Thursday, March 26, 2009 4:27 PM
Subject: RE: confirmation for ad request

I have the ad scheduled to appear in The Standard-Times under the legal notice classification as a line ad on Tuesday, March 31st. Thank you, Luiza 508-979-4351

-----Original Message-----
From: Cynthia Gilchrest [mailto:comsenseenv@comcast.net]
Sent: Thursday, March 26, 2009 4:00 PM
To: Leger, Luiza
Subject: confirmation for ad request

Hello:

Would you please send a confirmation that the legal ad will run on 3/31?

Thank you,
Cynthia
----- Original Message -----
From: Cynthia Gilchrest
To: lleger@s-t.com
Sent: Wednesday, March 25, 2009 12:15 PM
Subject: ad request

Hello:

Attached is the language for the legal ad we discussed. Please call or email with the estimate. I would like it to run early next week.

Thank you!
Cynthia Gilchrest
Common Sense Environmental, Inc. - DBE/WBE
50 Theresa Street
South Dartmouth, MA 02748
Telephone: 508-991-3491
Fax: 508-992-5039

Note new email address: comsenseenv@comcast.net
Please consider the environment before printing this email

END OF REPORT

EnvironmentalSafetyHealthGeotechnical

O'Reilly, Talbot & Okun
[ASSOCIATES]
ENGINEERING

19 W. Main Street
Suite 205
Westborough, MA 01581
Tel 508 366 6409
Fax 508 366 9826
www.oto-env.com

October 30, 2008
File No: 5072-01-02

Prepared for:
Common Sense Environmental, Inc.
50 Theresa Street
South Dartmouth, Massachusetts 02748

METHOD 3 RISK CHARACTERIZATION
Map 25A, Lots 49 and 53
16 Blackmer Street
New Bedford, Massachusetts
RTN 4-15490

Prepared by:
O'Reilly, Talbot & Okun Associates, Inc.
19 West Main Street, Suite 205
Westborough, Massachusetts 01581

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APPENDICES

APPENDIX A Toxicity Profiles

1.0 INTRODUCTION

This Method 3 risk characterization has been prepared by O'Reilly, Talbot & Okun Associates, Inc. (OTO) to assess whether oil and/or hazardous material (OHM) at the property located at 16 Blackmer Street in New Bedford, Massachusetts (the "Property") pose a Condition of No Significant Risk within the meaning of the Massachusetts Contingency Plan (MCP 310 CMR 40.0990). Specifically, the MCP disposal site (the "Site") is defined as the Property depicted on Assessors Map 25A, Lots 49 and 53 and was previously known as Lot 3 of the former New Bedford Standard Times Field Site.

In July 2006, Common Sense Environmental, Inc. (Common Sense) submitted a Partial Class B1 Response Action Outcome (RAO) for the northern portion of the Site. Historic assessment activities completed on this portion of the Site identified urban fill materials, containing wood, cinders, asphalt, coal, and coal ash. Concentrations of lead and polycyclic aromatic hydrocarbons (PAHs) identified in these materials were attributed to coal ash, which was laboratory confirmed. Polychlorinated biphenyls (PCBs) and extractable petroleum hydrocarbons (EPH) were also identified in soils in the northern portion of the Site. No point sources for the detected contaminants were identified, other than coal ash and fill material. In the Partial B1 RAO, a Method 2 Risk Characterization was completed to demonstrate a Condition of No Significant Risk for the northern portion of the Site.

For the southern portion of the Site, investigations also reported the presence of lead, PAHs, PCBs, and EPH; and the presence of fill material with laboratory confirmed coal ash. However, surficial soils (0-3 feet below ground surface (bgs)) contained concentrations of lead (up to 3,640 mg/kg) that exceeded MCP reportable concentrations for soil category S-2 (RCS-2) and Method 1 S-1, S-2, and S-3 standards. Therefore, a Method 3 Risk Characterization has been completed for the Site.

Three methods for Risk Characterization under the MCP, which vary in detail and circumstances of use, have been developed to evaluate a disposal site, as described in 310 CMR 40.0941(3) and 40.0942. These three methods provide equivalent levels of protection to health, public welfare, and the environment. A Method 3 approach is considered applicable for this Site because Site-specific methodologies (e.g., exposure assumptions concerning Site use) have been used. As defined in 310 CMR 40.0990, a Method 3 Risk Characterization evaluates the risks to human health, public welfare, safety, and the environment for all current and reasonably foreseeable future Site activities and uses.

The Method 3 risk characterization has been completed in accordance with the MCP, 310 CMR 40.0900, and applicable Massachusetts Department of Environmental Protection (MA DEP) guidance (MA DEP, 1992 through 2008). In the Method 3 Risk Characterization, human health risks for the Site are assessed in Section 2.0 of this report. Risk of harm to public welfare, including comparisons to Upper Concentration Limits (UCLs), is presented in Section 3.0. Characterization of risk of harm to safety is described in Section 4.0. The environmental risk characterization can be found in Section 5.0. Section 6.0 presents conclusions regarding the overall significance of Site risk.

The Method 3 is based on information and analytical data collected at the Site and provided to OTO by Common Sense. Site history and background information are summarized in the Common Sense *Phase II Comprehensive Site Assessment, Phase III Feasibility Analysis & Class A3 Response Action Outcome* (Common Sense, 2008). OTO has not conducted independent testing or Site characterization activities and has relied on the Common Sense supplied information to provide adequate characterization of the nature and extent of Site contamination as defined in the MCP.

1.1 Site History and Investigations

The Site Property was previously owned by the New Bedford Redevelopment Authority and was subsequently purchased by the Commonwealth of Massachusetts/Department of Fish and Game/Division of Marine Fisheries on July 6, 2005.

The Site Property was a vacant and undeveloped space circa 1930's to 2008. The Property has been vacant since the 1930s, following demolition of mill buildings that occupied the Property and surrounding vicinity from the 1880s to the 1930s. It is currently partially (southern portion) improved by an asphalt binder-covered parking lot, which is enclosed by a chain link fence.

The subject Property was formerly the northeastern portion of the 25.5 acre Standard Times Field Site. The Site consists of 3.41 acres and is located at the east termination of Blackmer Street.

In 1999 and 2000, Metcalf & Eddy, Inc. (M&E) completed Brownfields Targeted Site Assessments (BTSAs) for the overall 25.5 acre Standard Times Field Site. M&E staff observed an area of stained gravel with stressed vegetation, coal ash, and capacitor debris in the southwest Property area. Field observations of the Property and surrounding area included evidence of solid waste disposal, empty automotive, and boat fuel tanks and tires located 50 feet south of the Property. In addition, mounds and ditches of excavated earth, boulders, and building demolition debris (brick, concrete, tile, roofing material and asphalt) were observed throughout the remainder of the subject Property area. An off-Property area of stressed vegetation was observed to the north, in the approximate location of above referenced former gasholder. A former 150,000-gallon oil storage tank was also reportedly located approximately 700 feet to the southwest of the Property.

With respect to their assessment findings on the subject Property (Lot 3), M&E surface soil sampling results detected concentrations of individual PAHs and lead exceeding MCP reportable concentrations (RCs) in Site soil (11 mg/kg of benzo(a)pyrene and 3,640 mg/kg of lead) at the south central area of the Property (Tables 1A and 1C). Urban fill was noted in soils, as well as capacitor debris and coal ash (Table 1B). Polychlorinated biphenyls (PCBs) were detected in groundwater at concentrations exceeding RCs.

These findings resulted in the listing of the subject Property as a release site with MA DEP as Release Tracking Number (RTN) 4-15490. Accordingly, M&E recommended that further investigation be conducted to confirm the presence of these compounds, and to further evaluate the extent of the contamination.

In 2001, Cygnus Group, Inc. (Cygnus) completed a "Phase I: Initial Property Investigation and Tier Classification (RTN 4-15490), Lot 3 at Blackmer Street". As part of this Phase I Investigation, Cygnus Group collected soil samples at the Site between zero and six feet below grade in March and May 2000. Soil samples CSS-1 through -5, CSS-500 (duplicate of CSS-2), CGW1/S3, TP-1 through TP-8, and TP-X (duplicate of TP-5) were collected from boring or test pits in the northern and southern portions of the Site. The soil samples were analyzed for EPH fractions and target analytes (PAHs), PCBs, coal ash, asbestos containing materials (ACM), and/or lead.

The concentrations of a number of PAHs in soil samples from the southwestern portion of the Site exceeded the MCP reportable concentrations for the S-2 soil category (RC2) (Table 1A). ACM was not analyzed for in the soil samples (Table 1B). PCBs (Aroclor 1254) were not detected (Table 1B). The concentrations of lead in soil samples from the southern portion of the Site exceeded the MCP RCS-1 and RCS-2 (Table 1C).

In March 2000, Cygnus Group collected a groundwater sample and duplicate from monitoring well CGW-1. The sample was analyzed for EPH, PCBs, and pesticides. No analytes were detected (Table 2).

In May 2006, Common Sense completed a Phase I Completion Statement/Tier II Classification. In May and June 2006, boring and test pit soil samples were collected by Common Sense at the Site. The boring soil samples were collected from locations BH1, BH2, and BH6. The test pit soil samples were collected from TP-1 through TP-3, and BH-6A, BH-6B, BH-6C, and BH-6D. It is noted that samples BH-6A, BH-6B, BH-6C, and BH-6D were collected from the City of New Bedford drainage easement and are not part of the MCP disposal Site. The boring and test pit samples were collected from depths ranging from zero to 7.5 feet below grade and analyzed for EPH fractions, PAHs, asbestos, PCBs, and/or lead.

The concentrations of two higher molecular weight PAHs (i.e., benzo(a)anthracene and chrysene), and lead exceeded MCP RCS-2 (Tables 1A and 1C). Two of the Site samples (BH2 4-6.5', and CSE TP-1 0-3') were microscopically analyzed for the presence of coal and coal ash. Coal ash was identified in these two samples (Table 1A). ACM was not detected (Table 1B). PCBs (Aroclor 1254) were detected in several samples at concentrations below the MCP RCS-2 (Table 1B). The concentrations of lead detected in a number of samples from the southern portion of the Site exceeded the MCP RCS1 and RCS-2 (Table 1C).

Fill material was consistently observed in soil horizons at the Site from 0 to 5 feet below grade. Common Sense preliminarily concluded that the source of C11-C22 aromatics is fill materials containing asphalt particles and/or demolition debris (i.e., roofing or sealants). No point source for hydrocarbon impact was identified.

No source for a PCB release was identified during the Common Sense investigation. Microscopic analysis confirms the presence of coal ash at the Site, which is a potential source of PAHs and lead.

Common Sense completed three of the May 2006 borings (BH1, BH2, and BH6) into groundwater monitoring wells (CSE-2, CSE-3, and CSE-1, respectively). Groundwater samples were collected from these monitoring wells using low-flow techniques. No measurable thickness of nonaqueous phase liquid (NAPL) was encountered. The collected samples were analyzed for EPH fractions, PAHs, PCBs, and dissolved lead.

No analytes were reported above the method reporting limit, except for PCB Aroclor 1254 (Table 2). This PCB was detected at concentrations of 0.871, 0.72, and 0.83 ug/L, respectively. These concentrations are above the applicable MCP Method 1 GW-3 standard of 0.3 ug/L. However, the samples were not filtered prior to laboratory analysis.

It is notable that PCBs are not typically solvent and detections in water samples are most commonly associated with suspended particulates. In further support of this statement, the detected concentrations exceed the water solubility value of 0.277 mg/L for PCBs. As this value represents the maximum possible concentration of a chemical compound dissolved in water, it is clear that these detections are attributable to particulates present in the sample.

In order to technically support this supposition, a well (CSE-2), located on the northern portion of the Site, was re-sampled on July 27, 2006 to evaluate for dissolved concentrations. Due to the fact that available guidance does not clearly support filtering of groundwater samples for PCB analysis, two samples were extracted from the well for reanalysis. One of the two samples (CSE-2A) was decanted to allow for settlement of suspended solids and the second (CSE-2B) was laboratory filtered. Both samples were analyzed for PCB analysis and found to contain non-detectable levels.

Accordingly, the concentrations of PCBs detected in groundwater during this sampling event are discounted based on the presence of suspended solids. Furthermore, based on the fact that the abutting New Bedford Harbor is a listed NPL Site due to the presence of PCB contamination sourcing from known upstream industrial activities, it is evident that local background conditions for PCB contamination would exceed the levels detected on the subject Site and may even be the source for said detection. Therefore, the PCB groundwater data for CSE-1, -2, and -3 are discounted and not considered further in this Method 3 Risk Characterization.

The Phase II Assessment review of Site data for the southern and northern portions of the Site revealed that the northern portion of the release Site (approximately 2.41 acres) exhibited comparatively lower contaminant concentrations with respect to the southern portion. Due to the fact that the current Property owner intended to construct a paved parking lot and enclose with fencing the southern portion of the Property, it was concluded by Common Sense that the northern portion of the release Site was eligible for a "partial" RAO based on a Method 2 Risk Characterization. A subsequent MA DEP audit of the filed RAO report concluded that although some technical deficiencies were identified and addressed, no further response actions were deemed necessary for the northern portion of the Property.

A Release Abatement Measure (RAM) Plan was prepared by Common Sense to facilitate the construction of the paved lot over the southern area of the subject Property as a response action. The placement of an asphalt lot was recommended as a response to facilitate the implementation of an Activity & Use Limitation (AUL) and ultimate Site closure via a Class A3 RAO.

The objective of the Method 3 Risk Characterization is to determine if concentrations of OHM at the Site represent a Condition of No Significant Risk under current and foreseeable future Site Conditions. The soil data used in the risk characterization are presented in Tables 1A, 1B, and 1C. The groundwater data are presented in Table 2.

2.0 HUMAN HEALTH RISK ASSESSMENT

2.1 Current and Reasonably Foreseeable Future Site Use

The Site is approximately 3.41-acre in size. The Site is located at the east termination of Blackmer Street in a heavily developed commercial, light industrial, and residential section of New Bedford. The Site is located on land zoned as "Industrial B" and is within the "Working Waterfront Overlay District" designated by the City of New Bedford. A variety of industrial uses are permitted in industrial B zones. The "Working Waterfront Overlay District" is intended for use of marine-related industrial activities (e.g., fish processing or related activities).

The Site is currently vacant and owned by the Commonwealth of Massachusetts/ Department of Fish and Game/Division of Marine Fisheries. The southern portion of the Property has been partially converted to a paved parking lot and enclosed with a chain-link fence. The remaining Property area is covered by graded soil and mature vegetation. The Property potentially will be developed for office or commercial use in the future.

The Site building is serviced by municipal water and sewer systems. Electricity service is provided to the area by overhead cables along South First Street and by underground cables along Blackmer Street. Natural gas, municipal water, storm sewer, and drinking water are available to the Site via subsurface utilities located along Blackmer Street.

Storm drains also exist along Silva Street. The associated storm water outfall is located east of the Site in New Bedford Inner Harbor.

The source of drinking water for the City of New Bedford is Little Quittacas Pond in Rochester, Massachusetts, located approximately 11.5 miles north of the Site. According to an interview with the New Bedford Board of Health, there are no known public or private drinking water wells within 500 feet of the Site.

Based on 2000 census data contained in the Environmental FirstSearch report, New Bedford has a population density of nearly 12,163 persons per square mile. The nearest Massachusetts protected open space is Ben Rose field located approximately 500 feet to the southwest of the Site. As defined under 310 CMR 40.0006, there are no schools, daycare centers, hospitals, or nursing homes located within 500 feet of the Site.

Adjacent land use includes the New Bedford Radio, Inc., antenna tower at the north abutting lot. Blackmer Street, beyond which is a recently constructed Fresh Express Seafood packaging plant, abuts the Property to the west. The south abutting lot consists of a 30-foot unimproved easement owned by the City of New Bedford, beyond which is Fleet Fisheries fish packaging plant. The Site is bordered to the east by the New Bedford Harbor. The Acushnet River flows south to the New Bedford Inner Harbor. Lots 49 and 53 are located within the 100- and 500-year flood zones.

Historic environmental assessment reports completed by others indicate that the Site Property and abutting lots are all portions of the former New Bedford Standard Times Site and have reportedly been undeveloped open space since the 1930s.

2.1.1 Soil and Groundwater Categories

Categories for soil and groundwater have been developed by the MA DEP to facilitate the characterization of risk at MCP sites. The identification of applicable groundwater and soil categories at the Site has been conducted in accordance with 310 CMR 40.0993(2).

<u>Soil Category</u>

Identification of the applicable soil category requires an assessment of three factors identified in 40.0930 of the MCP.

These are accessibility, frequency of use, and intensity of use. Each of these factors must be assessed for the current use scenario and for a reasonably foreseeable future use scenario.

Soils with detected concentrations of constituents are located at depths ranging from zero to 7.5 feet below ground surface (bgs) in unpaved and paved areas. As defined in the MCP, the unpaved surficial soils located from zero to three feet bgs are categorized as being "accessible". The soils located from 3 to 7.5 feet bgs in unpaved areas, and 0 to 7.5 feet in paved areas are considered to be "potentially accessible" for exposure.

The southern portion of the Site is currently fenced, which would limit access to soils by trespassers. However, fencing is not considered to be part of a "permanent solution" under the MCP to achieve a Condition of No Significant Risk.

The Site is currently vacant, but has been redeveloped as a paved parking lot. It is possible that an office or commercial building will eventually be constructed at the Property. The frequency of use at the Site by trespassers and the general public, including children, is considered low to high and intensity of use is low under these future conditions.

Under future use of the Site for an office or commercial building, the frequency of use by Site workers is assumed to be high and the intensity of use is assumed to be low.

Construction and utility work could potentially occur at the Site during the installation, repair, or upgrade of a facility and/or utilities. The frequency of this activity is considered low, and the intensity of use is considered high (i.e., short-term excavation activities occurring at infrequent and irregular intervals).

Given this set of circumstances, the applicable soil category for the soils at the Site is S-2 and S-3 under current conditions. In the future, it is anticipated that the Site may be used as a possibly as an office or commercial building and the soil category would be S-2 and S-3. However, an S-1 category has been assumed for unlimited future Site use in order to evaluate the need for an AUL.

Groundwater Category

MA DEP has identified three groundwater exposure categories (GW-1, GW-2, and GW-3) under the MCP, each reflective of a type of risk that may be posed by OHM in groundwater. Different combinations of these criteria are applicable at sites depending upon the groundwater resource characteristics.

GW-1

The GW-1 category is applicable to locations where groundwater is, or may in the future be, a drinking water source. Municipal water is available to the Site.

According to the MA DEP BWSC Geographic Information System (GIS) Site Scoring map, the Site is not located within any of the following features:

1. Potentially Productive Aquifer (PPA),
2. Interim Wellhead Protection Area (IWPA),
3. Approved Zone II of a Public Water Supply,
4. Zone A of a Class A Surface Water Body, and
5. An area designated by a municipality specifically for the protection of groundwater quality to ensure its availability for use as a source of potable water supply.

According to the New Bedford Board of Health, there are no private drinking water wells known to exist within one-half mile of the Site. Based on this information, the GW-1 groundwater category is not considered to be applicable to the Site.

GW-2

The GW-2 category applies to locations where OHM may volatilize from the groundwater and migrate into an occupied structure. Wells with an average annual depth to groundwater of 15 feet or less below ground surface (bgs) and located within 30 feet of a currently occupied or future planned building meet the criteria of GW-2. The depth to groundwater within the disposal Site ranges from approximately 4.84 to 7.18 feet bgs.

The Site is currently vacant, with a paved parking lot on the southern portion of the Site. However, it is possible that an office or commercial building will eventually be constructed on the Property. Therefore, the GW-2 category is conservatively assumed to apply to groundwater at the Site.

GW-3

The GW-3 category is intended to protect environmental receptors in surface water that may be exposed to OHM when groundwater discharges to surface water. For all MCP sites, the GW-3 groundwater category is applicable. There are no surface water bodies present on the Site. Groundwater flows across the Site in a southeasterly direction.

The nearest surface water body is the abutting Acushnet River, which flows south to the New Bedford Inner Harbor. New Bedford Inner Harbor is a designated Class SB surface water body with restricted shell fishing and is impacted by Combined Sewer Overflows according to the Massachusetts Surface Water Quality Standards. A Class SB surface water body is suitable as a habitat for fish and other aquatic life, and for primary and secondary contact recreation such as swimming and boating.

Given this set of circumstances, the applicable groundwater categories for the Site are GW-2 and GW-3.

2.1.2 Background Concentrations

EPH fractions, PAHs, PCBs, and lead were the constituents detected in soil. MA DEP has not formally established background concentrations for these constituents in soil, except for PAHs and lead. Therefore, in this risk characterization, it is assumed that background concentrations for other constituents in soil and groundwater are the respective method reporting limits.

Seventeen PAHs were detected in the soil samples (Tables 1A). According to the microscopic analysis of two soil borings samples, coal and coal ash are present in fill material. Fill material containing coal/wood ash may be defined as "background" for the purposes of conducting a risk assessment as described in 310 CMR 40.0006.

If related to coal ash or wood ash associated with fill material, the soil PAH concentrations would meet the definition of "background" as defined in the MCP, and do not require remediation under the MCP, even if such concentrations would otherwise pose a significant risk of harm to health, safety, public welfare or the environment (MADEP, 2002a).

However a number of the PAHs were detected at concentrations that exceed the MA DEP identified background concentrations in soil containing coal ash or wood ash associated with fill material. Therefore, each of the PAHs are selected as constituents of concern (COCs) for the north and south areas of the Site, and carried through the risk characterization.

Lead was detected in soil samples collected at depths ranging from zero to 7.5 feet bgs. The concentrations of lead in a number of samples in the south area exceeded the MA DEP background concentration in soil containing coal ash or wood ash associated with fill material (600 mg/kg) (MA DEP, 2002e). Therefore, lead is considered to be a soil COC for this south area of the Site and is carried through the risk characterization.

2.2 Hazard Identification

2.2.1 Identification of Constituents of Concern

Soil

Soil data were collected at the Site by Metcalf & Eddy in 1999 and 2000, Cygnus in March and May 2000, and by Common Sense in May and June 2006 (Tables 1A, 1B, and 1C).

The three EPH fractions (C9-C18 aliphatics, C19-C36 aliphatics and C11-C22 aromatics), seventeen PAHs, PCBs (Aroclor 1254), and lead were the constituents detected in soil at the Site. These are the soil COCs for the southern portion of the Site. EPH and PAHs are the soil COCs for the northern portion of the Site.

Groundwater

No analytes were detected in groundwater that are considered to be representative of dissolved constituents.

2.2.2 Toxicity Profiles

Toxicity profiles describe the potential human health effects posed by the constituents of concern, when doses are high enough to elicit an effect. Toxicity profiles for the constituents of concern are included in Appendix A.

2.2.3 Identification of Applicable or Suitably Analogous Standards

Applicable or suitably analogous standards are formally promulgated standards intended to protect human health and the environment from adverse effects of hazardous agents. Such standards are media-specific.

There are no applicable or suitably analogous soil standards available for Site COCs. In accordance with MA DEP policy, MCP Method 1 risk characterization standards are not considered to be applicable or suitably analogous standards for Method 3 risk assessments.

Federal and state drinking water standards are not applicable or suitably analogous standards for this Site, because groundwater at the Site is not classified as GW-1.

2.3 Dose-Response Assessment

Dose-response information describes the health effects observed in humans or animals associated with particular doses of a chemical. Based on the observed effect and target organ identified, a numerical value is developed to estimate the magnitude of the health effect associated with a dose. Dose-response values are derived differently for non-carcinogenic and carcinogenic effects, as discussed below.

The sources of dose-response information for compounds detected at this Site were US EPA's on-line Integrated Risk Information System (IRIS) database (EPA, 2008), US EPA's Health Effects Assessment Summary Tables (HEAST) (EPA, 1997a) and MA DEP documents (MA DEP, 2008).

2.3.1 Threshold (Non-carcinogenic) Effects

For non-carcinogenic effects, there is believed to be a threshold level below which no adverse health effects will occur. Dose-response values for non-carcinogenic oral effects are referred to as Reference Doses (RfDs). For inhalation effects, these values are referred to as Reference Concentrations (RfCs). RfDs and RfCs represent EPA's provisional estimate (with uncertainty spanning perhaps an order of magnitude) of the threshold dose that will not pose risk of an adverse health effect to sensitive humans.

RfDs and RfCs are developed by applying uncertainty factors and modifying factors to the critical dose or concentration. This dose or concentration is usually either the Lowest-Observed-Adverse-Effect Level (LOAEL) or the No-Observed-Adverse-Effect Level (NOAEL) from toxicological studies, typically carried out on test animals.

Uncertainty factors are used to account for interspecies variability, variation in sensitivity within the human population, differences in the route of administration among tests, and other variables that may lend uncertainty to the extrapolation of test data to environmental settings.

Units for RfDs are mg/kg/day, representing a dose of chemical (in milligrams) per receptor body weight (in kilograms) per day. For inhalation exposures, the RfC value is expressed as a concentration in air in $\mu g/m^3$ for continuous, 24 hour/day exposure.

Oral RfDs and inhalation RfCs for the soil COCs are summarized in Table 3.

2.3.2 Non-threshold (Carcinogenic) Effects

In accordance with MCP guidance, it has been assumed that for carcinogenic effects there is no threshold level; that is, every non-zero exposure to a carcinogen is believed to be associated with some increased incremental risk. Dose-response values derived for carcinogenic compounds are Cancer Slope Factors (CSFs).

CSFs are calculated as the largest linear slope of the dose-response curve, which is generally extrapolated from the low-dose end of the curve. CSFs are expressed in $(mg/kg/day)^{-1}$, and assume that the received dose is averaged over a lifetime.

EPA's weight-of-evidence cancer classifications for each of the COCs were compiled. These classifications indicate whether existing human and animal data are sufficient to confirm whether there is an association between exposure to the compound and the occurrence of cancer.

No COC has a weight-of-evidence classification of Group A (i.e., Human Carcinogen - sufficient evidence in epidemiological studies to support causal association between exposure and cancer in humans). The carcinogenic PAHs, PCBs, and lead have a classification of Group B2 (i.e., Probable Human Carcinogen). One compound, naphthalene, has been given a weight-of-evidence cancer classification of Group C (Possible Human Carcinogen - inadequate or lack of human data and limited evidence of carcinogenicity in animals). The remaining detected compounds have been given a classification of D (i.e., Not Classifiable - inadequate or no human and animal evidence of carcinogenicity) or a classification is not available (NA).

Carcinogenic values for inhalation exposures, called unit risks, are calculated by dividing the slope factor by the body weight (70 kg) and multiplying by the air inhalation rate (20 m^3) for risk associated with unit concentration in air. Multiplication by 10^{-3} is necessary to convert mg (milligrams) to μg (micrograms).

Dose-response information for carcinogenic effects associated with soil COCs are summarized in Table 3.

2.3.3 Relative Absorption Factors

Relative absorption factors (RAFs) are used to account for the differences in absorption likely to occur between exposures under Site conditions and those that occurred under the experimental conditions that form the basis of the toxicity values.

Absorption differences may result from matrix effects (e.g., doses absorbed from soil versus water) as well as from routes of administration (e.g., oral versus dermal exposure). RAFs adjust the calculated Site dose to make it comparable to the available toxicity information.

RAFs used in this risk assessment are presented in Table 4 and were adopted from MA DEP (2008), when available. In the absence of compound-specific data for inhalation exposures, a default RAF of 1 was used.

2.4 Exposure Assessment

The objectives of the Exposure Assessment are to:

1. Qualitatively and quantitatively describe the settings and conditions under which human exposures to Site OHM may reasonably be expected to occur, and
2. Calculate doses of Site OHM that human receptors may receive.

Achieving these goals entails the identification of receptors that may be on-Site, evaluation of exposure pathways, and the calculation of Exposure Point Concentrations (EPCs) to which receptors may be exposed.

2.4.1 Development of Exposure Profiles

Exposure profiles provide a narrative description of how exposures may take place at the Site. The profiles identify factors related to potential exposures and estimate their magnitude. These factors include variables such as the receptors' body weights, intake rates, frequency of exposure, and duration of exposure.

Exposure profiles are provided for each receptor identified under current and foreseeable future uses of the Site, including unrestricted residential use of the Site in order to evaluate the need for an AUL as required under the MCP.

2.4.1.1 Identification of Potential Human Receptors and Exposure Points

Exposure points represent the locations where human or ecological receptors may come into contact with OHM at a site. These locations may be either single discrete points or areas/zones of affected media.

Potential human receptors were identified based on the current and foreseeable future uses of the Site and no AUL. The Site is currently vacant. The southern portion of the Site is a paved parking lot, which is fenced. Under current conditions, there is potential for exposure to impacted soils located in the unpaved, northern area of the Site. There is limited potential for exposure to soil in the paved, southern area of the Site. The potential exists in the future for construction on the Site, for example, for an office or commercial building on the Property. In this scenario, soils could be excavated and brought to and left on the surface.

Construction/utility workers may excavate into soils during current or future use of the Site. Site workers, residents, trespassers, and the general public, including children, may have the potential to be exposed to impacted soils, if the soils are left unpaved and not beneath a future building.

The evaluation of potential exposures to construction workers to Site soils during construction activities are considered protective of potential soil exposure by Site and utility workers based on the higher frequency and intensity of construction worker exposure.

Future soil exposures to residents at the Site are only possible if the Site is redeveloped for residential purposes and impacted soils are accessible at the surface. Potential exposures of residents to Site soils are considered to be protective of potential soil exposure by the general public, including children.

Potable water is available at the Site through a municipal source. Vapor intrusion from groundwater (located at a depth of 15 feet or less and within 30 feet of an existing or planned future building) and soil (within six feet horizontally and 10 feet vertically from the building) is not likely to be a significant indirect exposure pathway for the currently vacant Site or in the future. No COCs have been detected in Site groundwater. In addition, the COCs for soil, in general, exhibit low volatility.

Groundwater from the Site may reach nearby surface waters and serve as an indirect exposure pathway for aquatic organisms. However, no constituents were detected in groundwater. Therefore, the potential environmental impact of groundwater discharging into surface water is not evaluated for ecological receptors.

2.4.1.2 Identification of Exposure Routes

The exposure route describes how a receptor may contact contaminants at a site. The exposure routes identified for quantitative analysis in this risk characterization are the inadvertent ingestion of constituents in soil and the dermal absorption of constituents from soils in contact with the skin by construction workers, trespassers, and future residents; the inhalation and ingestion of airborne particulates by heavy construction workers; and the ingestion of homegrown produce grown in soil by residents.

Other exposure routes that were considered for quantitative analysis in the evaluation of current and unlimited future use, but determined not to be complete or not to contribute significantly to overall risk were:

- Inhalation of fugitive dust by residents;
- Dermal contact with groundwater and inhalation of volatiles released from groundwater in a trench by construction/utility workers.

The Site is currently vacant. The southern portion of the Site is as a paved parking lot. It is possible that an office or commercial building will be constructed on the Property. Under the theoretical scenario that the Site is developed in the future for residential purposes, it would anticipated that large earthmoving, dust generating projects and major landscaping would be completed before residences were occupied. Therefore, the generation of fugitive dusts would be minimal after construction. The maximum exposed individual during construction is the construction worker. The inhalation of airborne particulates during construction by workers is evaluated in this Method 3.

Pathways for the construction/utility workers that involve groundwater exposures, including dermal contact with groundwater and inhalation of volatiles in ambient air released from groundwater in a trench, were not evaluated quantitatively. There were no COCs detected in groundwater.

2.4.1.3 Exposure Profile Summary

Exposure profile summaries bring together the different elements of the exposure profile to develop complete exposure pathways for each receptor.

RECEPTOR	TYPE OF EXPOSURE	AGE	EXPOSURE MEDIA	EXPOSURE ROUTE
CURRENT AND FUTURE CONDITIONS				
Construction Workers	Subchronic	Adult	Soils	Incidental Ingestion Dermal Contact Inhalation of Particulates
Trespassers	Chronic	Older Child	Soils	Incidental Ingestion Dermal Contact
FUTURE CONDITIONS ONLY				
Residents	Chronic	Child and Adult	Soils	Incidental Ingestion Dermal Contact Ingestion of Homegrown Vegetables

2.4.2 Development of Exposure Factors

Exposure factors, also referred to as exposure assumptions, are numerical estimates of the magnitude and duration of exposures that receptors may have to Site OHM. The exposure assumptions and equations for estimating exposures for the construction workers, residents, and trespassers scenarios are from the MA DEP *ShortForms for Human Health Risk Assessment under the MCP* (MA DEP, 2007).

The exposure assumptions and equations for estimating exposures are presented in the following tables:

Table 5 - Construction Worker - Incidental Ingestion of Soil, Dermal Contact with Soil, and Inhalation Airborne Particulates
Table 6 - Resident - Incidental Ingestion of and Dermal Contact with Soil, and Ingestion of Homegrown Produce
Table 7 - Trespasser - Incidental Ingestion of and Dermal Contact with Soil

2.4.3 Exposure Point Concentrations

Exposure Point Concentrations, or EPCs, are the concentrations of OHM in a medium representative of the concentration a receptor may be exposed to over the course of an exposure. EPCs are calculated separately for each OHM and each medium.

Groundwater EPCs are generally represented by detected concentrations in each individual well, while soil EPCs may represent an arithmetic average concentration within an impacted area or over the entire Site. The Site data were first evaluated to determine if a "hot spot" area(s) is (are) present.

A hot spot is defined as a discrete area where concentrations of OHM or the thickness of NAPL are substantially higher than those present in the surrounding area. A hot spot can be identified based on consideration of both the concentrations or thickness of an OHM within a contaminated area and the spatial pattern of that contamination.

A discrete area where the average concentration within the area is greater than 10 but less than 100 times the average concentration in the immediate surrounding area is a hot spot, unless there is no evidence that the discrete area would be associated with greater exposure potential than the surrounding area.

In all cases, a discrete area where the concentration of OHM is greater than 100 times the concentration in the surrounding area is considered a hot spot. In addition, a hot spot cannot be created as a result of a remedial action (MA DEP, 2004), such as soil excavation.

Data from the affected areas of the Site were evaluated to identify potential "hot spots". No hot spots were identified.

The soil data presented in Section 2.2.1 of this report and in Tables 1A, 1B, and 1C were evaluated for the development of EPCs.

<u>Soil</u>

Four sets of soil EPCs was developed for the Site using soil sample data from 1999, 2000, and 2006. The first set is representative of "potentially accessible" soil located at a depth range of 0 to 3 feet bgs under pavement in the southern area of the Site.

The second set is representative of "potentially accessible" soil located at a depth range of 0 to 6.5 feet bgs under pavement in the southern portion of the Site.

The third set is representative of "potentially accessible" soil located at a depth range of 0 to 3 feet bgs in the northern area of the Site. The fourth set is representative of "potentially accessible" soil located at a depth range of 0 to 6 feet bgs under pavement in the southern portion of the Site.

For locations where a primary and duplicate sample were collected (e.g., CSS-2 and CS-500*), the detected concentrations were first averaged. A value of one-half the laboratory detection limit was used to represent concentrations reported as being below the laboratory detection limit, when the detection limit was available. For lead, samples were collected in clusters (e.g., CSS-1 through -5). Lead concentrations in these cluster subareas were averaged first before calculating the overall EPCs for lead.

The soil EPCs are presented in Tables 8A, 8B, and 8C.

2.4.4 Calculation of Average Daily Doses

The average daily dose (ADD) is a quantitative estimate of how much of each compound is taken into the receptor's body during exposure. The ADD is expressed as milligrams of OHM per kilograms of body weight per day. The general form of the dose equation is:

$$\text{ADD} = \frac{\text{(Total Amount of OHM Contacted)} * \text{(RAF)}}{\text{(Body Weight)} * \text{(Averaging Period)}}$$

ADDs are calculated differently for assessment of carcinogenic and non-carcinogenic effects from ingestion and dermal contact exposures. For assessment of non-carcinogenic effects, the ADD is averaged over the exposure period. The resulting ADD is an estimate of dose experienced during the actual period of exposure.

$$\text{Averaging Period}_{\text{non-carcinogenic}} = \text{Exposure Period}$$

For carcinogenic effects there is assumed to be no threshold level, and exposures are cumulative over a lifetime. The dose received is, therefore, averaged over a lifetime (70 years) instead of over just the exposure period. The resulting dose estimate is referred to as a lifetime average daily dose, or LADD.

$$\text{Averaging Period}_{\text{carcinogenic}} = \text{Lifetime (70 years)}$$

The average daily exposure (ADE) is a quantitative estimate of applied concentration of each compound for the receptor during exposure. The ADE is expressed as micrograms (μg) per cubic meter of air (m^3) and is based on the exposure point concentration (EPC) and an adjustment for the amount of time the receptor spends in the area with contaminated air. The general form of the exposure equation is:

$$ADE = \frac{EPC * \text{Exposure Duration} * \text{Exposure Frequency} * \text{Exposure Period} * \text{Conversion Factors}}{\text{Averaging Period}}$$

As with ADDs, ADEs are calculated differently for assessment of carcinogenic and non-carcinogenic effects. For assessment of non-carcinogenic effects, the ADE is averaged over the exposure period. The resulting ADE is an estimate of dose experienced during the actual period of exposure.

$$\text{Averaging Period}_{\text{non-carcinogenic}} = \text{Exposure Period}$$

For carcinogenic effects there is assumed to be no threshold level, and exposures are cumulative over a lifetime. The exposure received is therefore averaged over a lifetime (70 years) instead of over just the exposure period. The resulting exposure estimate is referred to as a lifetime average daily exposure, or LADE.

1. Incidental Ingestion Doses for Soil

The derivations of ADDs for the incidental ingestion route are encoded into the calculation of risk estimates for construction worker (Table 9), resident (Table 10), and trespasser (Table 11). Incidental ingestion is assumed to occur due to hand-to-mouth activity.

2. Dermal Contact Doses for Soil

Calculations of estimated dermal contact ADDs are encoded into the calculation of risk estimates for construction worker (Table 9), resident (Table 10), and trespasser (Table 11). Estimates of OHM contacted were calculated based on compound concentrations, the amount of skin exposed, and the amount of soil adhering to the skin. The ADD equation assumes the exposed skin is coated with soil once per event/day.

3. Inhalation and Ingestion of Airborne Particulates Exposures/Doses for Soil

The derivations of inhalation ADEs and ingestion ADDs are encoded in Table 9 for the construction worker.

4. Ingestion of Homegrown Produce

The ADDs for residential ingestion of homegrown produce are encoded in the risk estimates shortform (Table 10).

2.5 Risk Characterization

Risk characterization is the final step in the risk assessment process. In this step, the results of the Hazard Assessment, Dose-Response Assessment, and Exposure Assessment are combined to yield quantitative estimates of incremental risk posed by potential exposures to environmental media at the Site.

Separate estimates of potential cancer and non-cancer risk are made for each receptor and are discussed below. These estimates are compared to risk management criteria to establish whether a Condition of No Significant Risk is present.

2.5.1 Non-Cancer Risk

The indicator used to describe the potential for non-carcinogenic health effects is the Hazard Index (HI). For a given chemical, the HI is the ratio of a receptor's exposure level (or dose) to the level of exposure considered to be safe. In this risk characterization, a safe level of exposure is represented by the RfD or RfC for each compound. An HI that does not exceed 1 indicates the receptor's exposure to that compound is without risk of adverse health effect.

$$\text{Hazard Index} = \text{ADD}/\text{RfD or}$$
$$\text{Hazard Index} = \text{ADE}/\text{RfC}$$

When the Hazard Indices for each of the compounds of concern at the Site are summed for each receptor, the result is a total Site Hazard Index. This total Site Hazard Index is referred to as a screening HI because it does not segregate different compounds of concern based on their mode of toxicological activity.

Thus, when used as an indicator of total Site non-carcinogenic risk, the screening HI is likely to overstate the actual level of non-carcinogenic risk. If the screening level HI is not greater than 1, this indicates there is no significant non-carcinogenic health risk associated with Site exposures. If the screening level HI is greater than 1, this HI is segregated by toxicity endpoint.

Tables 9 to 11 present non-cancer risks. The hazard indices are summarized in Table 12. The cumulative screening hazard indices for construction workers and trespassers for the Site, and future residents in the northern portion of the Site do not exceed 1. These findings indicate that a Condition of No Significant Risk exists for these receptors.

However, the cumulative screening hazard indices for residents in the southern portion of the Site do exceed 1. The primary contributor to this exceedance is lead, particularly from the ingestion of homegrown produce. The segregation of the screening hazard indices by toxicity endpoint would yield the same result. These findings indicate that a Condition of No Significant Risk does not exist for future residents.

2.5.2 Cancer Risk

The potential for carcinogenic health effects is estimated as the Incremental Excess Lifetime Cancer Risk (ELCR). The ELCR represents the incremental probability of an exposed individual developing cancer over a lifetime as a result of exposure. For each chemical, the ELCR is the product of the Lifetime Average Daily Dose (LADD) or Lifetime Average Daily Exposure (LADE) and that compound's carcinogenic potency.

The indicator of carcinogenic potency used in this risk characterization is the EPA Cancer Slope Factor (CSF) or Unit Risk.

$$ELCR = LADD \times CSF \text{ or}$$
$$ELCR = LADE \times \text{Unit Risk}$$

As in the case of non-cancer risk, the ELCRs for each of the different compounds and pathways are summed to produce a receptor-specific cumulative ELCR. This cumulative ELCR is compared to the risk management criterion of 1×10^{-5} (one in one hundred thousand). A cumulative ELCR that does not exceed 1×10^{-5} indicates that no significant carcinogenic risk is present due to OHM at the Site. A cumulative ELCR greater than 1×10^{-5} indicates a potential for significant cancer risk is present as defined by the MCP.

Tables 9 to 11 present cancer risks. The ELCRs are summarized in Table 12. The cumulative ELCRs for this Site for construction workers and trespassers for the Site, and residents for the northern portion of the Site do not exceed 1×10^{-5}. These findings indicate that a Condition of No Significant Risk exists for these receptors.

However, the ELCRs for residents in the southern portion of the Site do exceed 1×10^{-5}. Therefore, a Condition of No Significant Risk does not exist for this receptor and these soils.

2.5.3 Summary of Findings

1. The cumulative hazard indices and excess lifetime cancer risks for construction workers from exposures to soil are not greater than MA DEP's risk management criteria of 1 and 1×10^{-5}, indicating a Condition of No Significant Risk for these receptors. Construction worker exposure to Site soil is considered to be protective of lesser-exposed receptors, such as utility workers, landscapers, and Site workers.

2. The cumulative hazard index and excess lifetime cancer risk for residents from exposures to soil in the northern portion of the Site are not greater than MA DEP's risk management criteria of 1 and 1×10^{-5}, indicating a Condition of No Significant Risk does exist for this receptor. However, the cumulative hazard index and excess lifetime cancer risk for residents from exposures to soil in the southern portion of the Site are greater than MA DEP's risk management criteria of 1 and/or 1×10^{-5}, indicating a Condition of No Significant Risk does not exist for this receptor.

3. The cumulative hazard index and excess lifetime cancer risk for trespassers from exposures to soil at are not greater than MA DEP's risk management criteria of 1 and/or $1x10^{-5}$, indicating a Condition of No Significant Risk does exist for this receptor.

4. There are no exceedances of applicable or suitably analogous standards.

Based on these findings, we conclude that a Condition of No Significant Risk exists for soil exposures to construction workers and trespassers, and residents in the northern portion of the Site. However, a Condition of No Significant Risk does not exist for unrestricted use by residents in the southern area of the Site. Therefore, an Activity and Use Limitation (AUL) is required for the southern area of the Site to control these types of exposures in the AUL area. The AUL restricts activities and/or uses that are likely to involve the removal and/or disturbance of the impacted soil beneath the protective barrier without a Soil Management Plan, Health and Safety Plan, and LSP opinion.

2.6 Uncertainty Analysis

The risk assessment process uses information from a variety of sources, such as analytical data from the Site investigation and toxicity data from published research. This information is combined with assumptions regarding potential receptors and Site use. Uncertainties may be present in each of these assumptions, and may affect the outcome of the risk assessment. The risk assessment was developed to be a conservative estimate of potential adverse health effects. Its results should not be interpreted as definitive quantitative values. Uncertainties in the various portions of this risk assessment are discussed below.

A. Hazard Identification

The identification of constituents present in soil and their distribution across the Site are dependent upon the sampling and analytical program conducted. Conservative assumptions were made in developing soil EPCs that likely lead to overestimates of actual exposure point concentrations. EPCs were based on detected concentrations in samples collected from higher concentration areas. Sampling programs tend to focus on areas of higher concentration, resulting in a high-end estimate of the EPC.

B. Exposure Assessment

There is uncertainty associated with exposure assessment because the range of potential human activity is broad. Variability is associated with differences between individual receptors, such as body weight, skin surface area, and rates of soil ingestion.

Conservative assumptions that are consistent with those recommended by MA DEP risk guidance documents have been used in developing pathway exposure factors that are anticipated to err on the side of protection of health.

C. Dose-Response Assessment

Toxicity information for many of the chemicals detected at the Site is associated with varying degrees of uncertainty. Sources of uncertainty for toxicity values (EPA, 1989) may include:

- Using dose-response information from effects observed at high doses to predict the adverse health effects that may occur following exposure to low levels expected from human contact with the agent in the environment;
- Using dose-response information from short-term exposure to predict the effects of long-term exposures, and vice-versa;
- Using dose-response information from animal studies to predict effects in humans;
- Using dose-response information from homogeneous animal populations or healthy human populations to predict the effects likely to be observed in the general population consisting of individuals with a wide range of sensitivities.

Most of the toxicity values used in this risk characterization are EPA-verified RfDs/RfCs and slope factors. These values, as presented in IRIS, are derived using a number of safety factors and are accompanied by a statement of confidence in the value itself, the critical study, and the overall data base for RfDs/RfCs, and the weight-of-evidence classifications for slope factors.

MA DEP has derived toxicity values for VPH/EPH carbon fractions using a reference surrogate compound approach for these complex mixtures of hydrocarbons (MA DEP, 2002e). The method involves segregating the petroleum hydrocarbons present in mixtures into broad chemical classes and further into subgroups or fractions based upon their size, and with consideration of comparative toxicity and structure activity relationships (SARs). For each subgroup of compounds, a reference compound was initially identified to represent the toxicity of all compounds in the range. The compound was usually chosen because its toxicity was relatively well characterized. For each reference compound, an EPA published value was identified or a value was identified based on available toxicity information.

D. Risk Calculations

The risk calculations were performed using a deterministic methodology as required under MCP guidance. In a deterministic methodology, a single value (point estimate) is used for exposure parameters and exposure point concentrations. The result is that a single risk value is calculated for each scenario and receptor of concern. However, the use of a mix of mid-range and conservative exposure assumptions is intended to produce realistic upper-end exposure estimates, which will be protective of public health and produce risk estimates that will be valid for comparison to MCP Cumulative Risk Limits (MA DEP, 1995).

3.0 CHARACTERIZATION OF RISK OF HARM TO PUBLIC WELFARE

The MCP defines two purposes for conducting a characterization of risk to public welfare: (a) to identify and evaluate nuisance conditions that may be localized, and (b) to identify and evaluate significant community effects. The characterization of risk to public welfare considers effects that are or may result from the presence of residual contamination or the implementation of a proposed remedial alternative (310 CMR 40.0994).

The characterization of the risk of harm to public welfare considers Site, receptor, and exposure information, as well as data collected pursuant to the response action(s) being performed. The characterization of risk of harm to public welfare also considers such factors as the existence of nuisance conditions, loss of active or passive property use(s), and any non-pecuniary effects not otherwise considered in the characterization of risk of harm to health, safety, and the environment, but which may accrue due to the degradation of public resources directly attributable to the release or threat of release of OHM or the remedial alternative (310 CMR 40.0994(2)).

The risk of harm to public welfare is characterized by comparing the concentration of each OHM to the Upper Concentration Limits in Soil and Groundwater or UCLs [as defined in 310 CMR 40.0996]. In addition, a level of no significant risk of harm to public welfare exists or has been achieved, if no nuisance conditions, such as noxious odors, persist. The EPCs derived for soils (Table 8) and groundwater concentrations (Table 2) do not exceed UCLs.

The Site has been shown to contain soils impacted by constituents that may possess an odor at close range. The impacted soils at the Site are located in unpaved and paved areas at depths of zero to 7.5 feet bgs. Intermittent odors may occur if affected soils become uncovered and brought to the surface.

For petroleum-contaminated sites, MA DEP guidance (MA DEP, 2002e) has suggested rules of thumb for determining when an odor condition would generally not be considered a nuisance condition. The rules of thumb that would be applicable to potential intermittent odors are:

1. Odors observed in the subsurface during excavation or boring advancement would generally not be considered a nuisance condition, as long as such odors are not detectable in ambient or indoor air, and as long as there are no plans to excavate or disturb such areas.
2. Odors observed in the breathing zone of the ambient air, or indoor air of an impacted structure, would generally not be considered a nuisance condition, if such odors do not persist for more than 3 months.
3. Odors observed in the breathing zone of the ambient air would generally not be considered a nuisance condition if they are discernable less than 10 days a year.

4. Odors observed in the ambient air or indoor air of an impacted structure would generally not be considered a nuisance condition if the occupants of such a structure do not believe such odors significantly affect or degrade their quality of life.

Potential odors are not believed to pose a significant risk to public welfare based on these rules of thumb being met and infrequent occurrence and low potential for exposure.

Therefore, there is No Significant Risk to public welfare for soils at the Site under current and foreseeable future conditions.

4.0 CHARACTERIZATION OF RISK OF HARM TO SAFETY

The risk of harm to safety, as described in 310 CMR 40.0960, was evaluated for the Site. The Site does not exhibit the following safety-related characteristics:

1. There are no rusted or corroded drums or containers, open pits, lagoons, or other dangerous structures at the Site;
2. There is no threat of fire or explosion from the presence of explosive vapors resulting from the release of OHM at the Site; and
3. There are no containerized materials at the Site exhibiting the characteristics of corrosivity, reactivity, or flammability.

Therefore, there is not a risk of harm to safety due to conditions at the Site.

5.0 ENVIRONMENTAL RISK CHARACTERIZATION

In accordance with Section 40.0995 of the MCP, this section of the risk assessment evaluates possible ecological risks due to OHM in soils and groundwater at the Site. For the Site, a Stage I Environmental Risk Screening was conducted. The Stage I Screening steps are:

1. Identify complete Exposure Pathways [310 CMR 40.0995 (3)(a)],
2. Determine whether Readily Apparent Harm Exists [310 CMR 40.0995 (3)(b)], and
3. Establish if Potentially Significant Exposures Exist [310 CMR 40.0995 (3)(c)].

If there are no complete exposure pathways, readily apparent harm, or potentially significant exposures, no further action to assess ecological risk is required (MA DEP, 1996a).

The Stage I screening for potential ecological receptors has been conducted for terrestrial habitats, as no groundwater was evaluated at the Site.

5.1 Aquatic Habitat Screening

Four criteria are identified in the MCP to assess whether exposure of environmental receptors is likely:

1. Evidence that OHM have come to be located in a surface water body or wetland,
2. Evidence that OHM have had an adverse impact on aquatic biota,
3. The presence of OHM in any Study Area media at concentrations associated in the scientific literature with adverse environmental impacts, and
4. The presence of environmental receptors within 500 feet of the Study Area and the potential for OHM to migrate to such receptors at a concentration which would exceed Ambient Water Quality Standards or Massachusetts Surface Water Quality Standards.

There are no surface water bodies present on the Site. The nearest surface water body is the abutting Acushnet River, which flows south to the New Bedford Inner Harbor. New Bedford Inner Harbor is a designated Class SB surface water body with restricted shell fishing and is impacted by Combined Sewer Overflows according to the Massachusetts Surface Water Quality Standards. A Class SB surface water body is suitable as a habitat for fish and other aquatic life, and for primary and secondary contact recreation such as swimming and boating. The groundwater flow direction at the Site is inferred to be to the southeast.

The potential for the existing groundwater conditions to impact the river and inner harbor in the future was evaluated. No COCs were detected in Site groundwater.

These findings indicate a Condition of No Significant Risk of harm to the aquatic environment for Site groundwater.

5.2 Terrestrial Habitat Screening

Natural vegetation is limited at the Site. Although, the Site is currently vacant, it has been developed in the past. Soils with reported concentrations of constituents are located at depths of zero to 7.5 feet bgs and in unpaved and paved areas. Therefore, it is possible that plants and burrowing wildlife could currently directly contact the unpaved soils under current Site conditions. Direct contact with Site soil by these receptors would be limited in the southern portion of the Site that is paved.

A further evaluation of the presence of potentially significant exposure pathways was completed. Since no soil screening criteria are available, the terrestrial habitat has been screened on the basis of its size. For the purposes of this screening, the size of undeveloped/open land at the Site determines the specific evaluation of terrestrial environments.

MA DEP (1996a) states that for the purposes of the screening process, undeveloped/open land is characterized by the presence of native vegetation, and does not include landscaped residential and commercial parcels, landscaped parks, or golf courses.

Based on this MA DEP definition, the open space on the Site is less than 2 acres in size. Therefore, no further action to characterize ecological risk is required for sites unless:

1. Contaminant transport from surface soil to an Area of Critical Environmental Concern (ACEC) is possible, or
2. State-listed threatened or endangered species, or other species of special concern are present.

According to the MassGIS map, the Site is not:

1. Within an ACEC nor is contaminant transport from surface soil to an ACEC possible, or
2. The location of state-listed threatened or endangered species, or other species of special concern.

Based on the above information, potentially significant exposures do not exist for terrestrial ecological receptors potentially exposed to soils. Overall, there is currently No Significant Risk to the environment from OHM detected in soils and groundwater at the Site.

6.0 CONCLUSIONS

In accordance with the Massachusetts Contingency Plan, 310 CMR 40.0990, we have conducted a Method 3 risk characterization for the Site located at Map 25A, Lots 49 and 53 at 16 Blackmer Street in New Bedford, Massachusetts.

To assess whether reported concentrations of OHM represent a Condition of No Significant Risk, this Method 3 risk characterization was completed. In accordance with the MCP, the Method 3 risk characterization included the following components:

1. Assessment of risks to human health,
2. Assessment of risks to public welfare,
3. Assessment of environmental risks, and
4. Assessment of risk of harm to safety.

The risk characterization concluded that a Condition of No Significant Risk to public welfare, the environment, and safety exists at the Site based on available Site data and exposures evaluated for current Site activities and uses.

The human health portion of the Method 3 Risk Characterization concludes that a Condition of No Significant Risk exists for current Site uses and potential exposures to soils to construction workers and trespassers, and future residents in the north portion of the Site. However, a Condition of No Significant Risk does not exist for unrestricted use by residents and other uses where a child's presence is likely at a high frequency and high intensity of use in the southern area of the Site.

There are no complete exposure pathways to groundwater. There are no exceedances of applicable and suitably analogous standards.

Potentially significant exposures were not found to exist for aquatic and terrestrial ecological receptors.

A Condition of No Significant Risk does not exist for unrestricted future use(s) of the southern area of the Site. Therefore, an AUL is required to achieve and/or maintain a Condition of No Significant Risk. The AUL restricts activities and/or uses that are likely to involve the removal and/or disturbance of the impacted soil beneath the protective barrier without a Soil Management Plan, Health and Safety Plan, and LSP opinion.Based on the implementation of an AUL, a Class A-3 RAO is appropriate for the Site.

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TABLES

Table 1A
EPH, PAHs, and Coal Ash Soil Data
16 Blackmer Street
New Bedford, MA
1999, 2000, and 2006
Concentration (mg/kg)

SAMPLE IDENTIFICATION SAMPLE DEPTH (FT) COLLECTION DATE	Reportable Concentrations updated Feb. 2008 RCS-1	 RSC-2	SS-04A** 0-3 09/28/99	SS-04B** 0-3 09/28/99	TP-03 M&E 01/2000	TP-04 M&E 01/2000	CSS-2 0-3 03/06/00	CSS-2 3-6 03/06/00	CSS-500* 0-3 03/06/00	CSS-500* 3-6 03/06/00	CGW1/S-3 0-2 03/07/00	BH2 2.5-4 05/25/06	BH2 4-6.5 05/25/06	Duplicate 4 (CSETP1 3-6') 05/25/06
TARGET EPH														
C9-C18 Aliphatic Hydrocarbons	1,000	3,000	3.2	ND	DU	DU	ND	ND	ND	ND	ND	<13.2	<11.8	<13.0
C19-C36 Aliphatic Hydrocarbons	3,000	5,000	50	19	DU	DU	29	17.0	27.0	16.0	32.0	32.2	19.2	<13.0
C11-C22 Aromatic Hydrocarbons	1,000	3,000	180	120	DU	DU	78.0	280.0	120.0	240.0	180.0	117.0	177.0	<13.0
PAHs														
Naphthalene	4	40	0.45	0.51	DU	DU	ND	2.200	ND	0.550	0.740	0.203	0.280	<0.0649
2-Methylnaphthalene	0.7	80	0.44	0.25	DU	DU	5.000	0.860	ND	ND	ND	<0.0658	<0.058	<0.0649
Acenaphthene	2	3,000	0.47	1.2	DU	DU	ND	2.000	0.900	0.850	2.100	0.405	0.689	<0.130
Phenanthrene	10	1,000	11	14	DU	DU	5.400	36.000	7.900	27.000	23.000	5.770	8.260	<0.0649
Acenaphthylene	1	10	1.2	0.7	DU	DU	ND	0.600	ND	0.540	ND	0.213	0.276	<0.0649
Fluorene	1,000	3,000	1.6	1.4	DU	DU	0.640	3.800	0.990	2.200	2.800	0.495	0.795	<0.0325
Anthracene	1,000	3,000	3.3	4.2	DU	DU	1.400	8.300	2.300	6.400	6.500	1.130	1.720	<0.0649
Fluoranthene	1,000	3,000	16	21	DU	DU	7.60	41.00	9.600	35.000	23.000	8.430	10.800	<0.260
Pyrene	1,000	3,000	20	19	DU	DU	7.60	38.00	9.700	32.000	22.000	7.110	8.910	<0.260
Benz[a]Anthracene	7	40	8.9	10	DU	DU	3.50	17.00	4.500	16.000	9.800	3.470	4.380	<0.130
Chrysene	70	400	8.4	9.9	DU	DU	3.80	16.00	4.900	13.000	10.000	3.470	4.470	<0.130
Benzo[b]Fluoranthene	7	40	7.7	9.1	DU	DU	3.900	18.000	5.100	14.000	9.700	<0.197	<0.176	<0.195
Benzo[k]Fluoranthene	70	400	5	11	DU	DU	1.60	3.50	2.500	5.600	4.600	<0.132	<0.118	<0.130
Benzo[a]Pyrene	2	4	**8.2**	**11**	DU	DU	**3.200**	**13.000**	**4.100**	**11.000**	**8.400**	<0.132	<0.118	<0.130
Indeno[1,2,3-c,d]Pyrene	7	40	7.5	7.4	DU	DU	2.600	10.000	4.000	9.200	6.500	<0.0658	<0.0588	<0.0649
Dibenzo[a,h]Anthracene	0.7	4	**7.5**	2.5	DU	DU	2.600	**10.000**	**4.000**	**9.200**	**6.500**	<0.132	<0.118	<0.130
Benzo[g,h,i]Perylene	1,000	3,000	5.3	8.3	DU	DU	2.000	7.300	3.600	6.700	4.700	<0.132	<0.118	<0.130
COAL ASH							NA	NA	NA	NA	NA	NA	coal ash	NA

* Duplicate of CSS-2
ND - Non Detect
NA - Not Analyzed
NS - Not Specified
Bold indicates RCS2 threshold exceeded

Cygnus TP-1 through TP-8 were NA for EPH/PAH
RCs updated in Feb 2008
** Pesticides detected at estimated concentrations less than the RSC-2 standards.
DU - Data unkown/Unavailable - data tables, missing from M&E and Cyngus reports, but discussed in body of report.

Table 1A
EPH, PAHs, and Coal Ash Soil Data
16 Blackmer Street
New Bedford, MA
1999, 2000, and 2006
Concentration (mg/kg)

SAMPLE IDENTIFICATION SAMPLE DEPTH (FT) COLLECTION DATE	Reportable Concentrations updated Feb. 2008 RCS-1	RSC-2	BH1 0-2.5 05/25/06	BH-1 2.5-5 05/25/06	CSE TP-1 0-3 05/25/06	CSE TP-1 3-6 05/25/06	CSE TP-2 0-3 05/25/06	CSE TP-2 3-6 05/25/06	CSE TP-3 0-3 05/25/06	Duplicate 3 (CSETP3 0-3') 05/25/06	CSE TP-3 3-6 05/25/06
TARGET EPH											
C9-C18 Aliphatic Hydrocarbons	1,000	3,000	<11.5	<12.2	<14.5	<13.2	<15.2	<15.4	<12.0	<12.3	<13.3
C19-C36 Aliphatic Hydrocarbons	3,000	5,000	20.2	83.4	<14.5	<13.2	15.2	54.7	12.7	44.1	<13.3
C11-C22 Aromatic Hydrocarbons	1,000	3,000	292.0	242.0	<14.5	<13.2	902.0	84.3	337.0	613.0	<13.3
PAHs											
Naphthalene	4	40	0.147	0.239	<0.0725	<0.0658	<0.0758	<0.0769	0.210	0.185	<0.0667
2-Methylnaphthalene	0.7	80	<0.057	<0.061	<0.0725	<0.0658	<0.0758	<0.0769	<0.0602	<0.0617	<0.0667
Acenaphthene	2	3,000	0.602	0.420	<0.145	0.132	<0.152	<0.154	0.301	0.827	<0.133
Phenanthrene	10	1,000	25.800	6.740	0.380	<0.0658	36.400	1.500	9.350	21.500	<0.0667
Acenaphthylene	1	10	1.260	0.307	<0.0725	<0.0658	1.390	0.246	0.619	0.731	<0.0667
Fluorene	1,000	3,000	1.830	0.505	<0.0362	<0.0329	1.320	<0.0385	0.535	1.410	<0.0333
Anthracene	1,000	3,000	4.660	1.300	<0.0725	<0.0658	7.840	0.317	1.600	3.700	<0.0667
Fluoranthene	1,000	3,000	33.000	11.400	0.357	<0.263	64.700	3.170	20.700	33.600	<0.267
Pyrene	1,000	3,000	27.800	10.100	0.304	<0.263	59.500	2.950	18.300	33.300	<0.267
Benz[a]Anthracene	7	40	12.100	4.900	0.186	<0.132	**29.400**	1.310	**9.850**	**15.700**	<0.133
Chrysene	70	400	11.300	5.110	0.275	<0.132	26.000	1.460	9.870	16.400	<0.133
Benzo[b]Fluoranthene	7	40	<0.172	<0.183	<0.217	<0.197	<0.227	<0.231	<0.181	<0.185	<0.200
Benzo[k]Fluoranthene	70	400	<0.115	<0.122	<0.145	<0.132	<0.152	<0.154	<0.120	<0.123	<0.133
Benzo[a]Pyrene	2	4	<0.115	<0.122	<0.145	<0.132	<0.152	<0.154	<0.120	<0.123	<0.133
Indeno[1,2,3-c,d]Pyrene	7	40	<0.0575	<0.0610	<0.0725	<0.0658	<0.0758	<0.0769	<0.0602	<0.0617	<0.0667
Dibenzo[a,h]Anthracene	0.7	4	<0.115	<0.122	<0.145	<0.132	<0.152	<0.154	<0.120	<0.123	<0.133
Benzo[g,h,i]Perylene	1,000	3,000	<0.115	<0.122	<0.145	<0.132	<0.152	<0.154	<0.120	<0.123	<0.133
COAL ASH			NA	NA	COAL ASH	NA	NA	NA	NA	NA	NA

* Duplicate of CSS-2
ND - Non Detect
NA - Not Analyzed
NS - Not Specified
Bold indicates RCS2 threshold exceeded

Cygnus TP-1 through TP-8 were NA for EPH/PAH
RCs updated in Feb 2008

Table 1B
PCBs and Asbestos Containing Materials (ACM) Soil Data
16 Blackmer Street
New Bedford, MA
1999, 2000, and 2006
Concentration (mg/kg)

Sample location	South Area	North Area	North Area	South Area	South Area	South Area	South Area	South Area	North Area	North Area	North Area
SAMPLE IDENTIFICATION	**CGW1/S-3**	**BH1**	**BH-1**	**BH2**	**SS-04A**	**SS-04B**	**TP-03**	**TP-04**	**CSE TP-2**	**CSE TP-3**	**CSE TP-1**
SAMPLE DEPTH (FT)	**0-2**	**0-2.5**	**2.5-5**	**2.5-4**	**0-3**	**0-3**			**3-6**	**0-3**	**0-3**
COLLECTION DATE	**03/07/00**	**05/25/06**	**05/25/06**	**05/25/06**	**09/28/99**	**09/28/99**	**01/2000**	**01/2000**	**05/25/06**	**05/25/06**	**05/25/06**
ASBESTOS											
chrysotile	NA	NA	NA	<1%	NA	NA	NA	NA	ND	ND	ND
POLYCHLORINATED BIPHENYLS (PCBs)											
Aroclor 1221	ND	< .0575	< .0610	< .0658	ND	ND	DU	DU	< .0769	< .0602	< .0725
Aroclor 1232	ND	< .0575	< .0610	< .0658	ND	ND	DU	DU	< .0769	< .0602	< .0725
Aroclor 1248	ND	< .0575	< .0610	< .0658	ND	ND	DU	DU	< .0769	< .0602	< .0725
Aroclor 1254	ND	0.073	< .0610	0.105	ND	1.700	DU	capacitors observed	< .0769	0.439	< .0725
Aroclor 1260	ND	< .0575	< .0610	< .0658	ND	ND	DU	DU	< .0769	< .0602	< .0725
Aroclor 1262	ND	< .0575	< .0610	< .0658	ND	ND	DU	DU	< .0769	< .0602	< .0725
Aroclor 1268	ND	< .0575	< .0610	< .0658	ND	ND	DU	DU	< .0769	< .0602	< .0725

ND - Not Dectected by lab method
NA - Not Analyzed
NS - Not Specified
Bold indicates RCS2 threshold exceeded
DU - Data unknown/Unavailable - data tables missing from M&E and Cyngus reports but discussed in body of report.

Table 1C
Lead Soil Data
16 Blackmer Street
New Bedford, MA
1999, 2000, and 2006

Sample Identification Number	Sample Location	Sample Depth (ft)	Collection Date	Lead mg/kg
CSS-01	South Area	0-3	3/6/2000	260
CSS-1	South Area	3-6	3/6/2000	130
CSS-2	South Area	0-3	3/6/2000	**400**
CSS-500 (duplicate CSS-2)	South Area	0-3	3/6/2000	**620**
CSS-2	South Area	3-6	3/6/2000	210
CSS-500 (duplicate CSS-2)	South Area	3-6	3/6/2000	160
CSS-3	South Area	0-3	3/6/2000	**2500**
CSS-3	South Area	3-6	3/6/2000	160
CSS-4	South Area	0-3	3/6/2000	**530**
CSS-4	South Area	3-6	3/6/2000	190
CSS-5	South Area	0-3	3/6/2000	**310**
CSS-5	South Area	3-6	3/6/2000	150
CGW-1/S-3	South Area	0-2	3/7/2000	**490**
TP-1	North Area	0-3	5/9/2000	190
TP-2	North Area	0-3	5/9/2000	140
TP-3	North Area	0-3	5/9/2000	180
TP-4	North Area	0-3	5/9/2000	61
TP-5	South Area	0-3	5/9/2000	100
TP-X (TP5 duplicate)	South Area	0-3	5/9/2000	220
TP-6	South Area	0-3	5/9/2000	**930**
TP-7	North Area	0-3	5/9/2000	63
TP-8	South Area	0-3	5/9/2000	250
BH1	North Area	0-2.5	5/28/2006	111
BH1	North Area	2.5-5	5/28/2006	287
Duplicate 1 (BH1 2.5-5)	North Area	2.5-5	5/28/2006	194
BH1	North Area	5-7.5	5/28/2006	5.25
BH2	South Area	0-2.5	5/28/2006	**313**
BH2	South Area	2.5-4	5/28/2006	**339**
Duplicate 2 (BH2 2.5-4)	South Area	2.5-5	5/28/2006	**371**
BH2	South Area	4-6.5	5/28/2006	**5780**
SS-04A	South Area	0-3	9/28/99	**3640**
SS-04B	South Area	0-3	9/28/99	**379**
CSE/TP-1	North Area	0-3	5/28/2006	42.1
CSE/TP-1	North Area	3-6	5/28/2006	5.7
CSE/TP-2	North Area	0-3	5/28/2006	77.9
CSE/TP-2	North Area	3-6	5/28/2006	6.65
CSE/TP-3	North Area	0-3	5/28/2006	256
CSE/TP-3	North Area	3-6	5/28/2006	25.9
BH-6A	South Adjacent Lot	2.5-6	6/12/2006	**550**
BH-6B	South Adjacent Lot	2.5-6	6/12/2006	209
BH-6C	South Adjacent Lot	2.5-6	6/12/2006	**1380**
BH-6D	South Adjacent Lot	2.5-6	6/12/2006	**611**

Upper Concentration Limit (Method 3)	3000
Reportable Concentration S1	300
Reportable Concentration S2	300
MCP Background - urban fill	600

- undefined in MCP

Bold indicates RC threshold has been exceeded

Underline indicates sample was non-detect and value is half method reporting limit.

Table 2
EPH/PAHs/PCBs and Lead in Groundwater Data
16 Blackmer Street
New Bedford, MA
2000 and 2006

	North Area	Destroyed South Area	South Area		Destroyed South Area					
						Reportable Concentration		Method 1 Groundwater Standards		
SAMPLE NUMBER: COLLECTION DATE:	**CSE-2 5/28/2006**	**CSE-1 5/28/2006**	**CSE-3 5/28/2006**	**GW-01** 9/30/99**	**CGW-1 3/10/2000**	**GW-1 (ug/L)**	**GW-2 (ug/L)**	**GW-1 (ug/L)**	**GW-2 (ug/L)**	**GW-3 (ug/L)**
FULL EPH ANALYTICAL RESULTS (ug/L)										
2-Methylnaphthalene	<1.20	<1	<1.14	14.00	ND	10	3000	10	10000	3000
Acenaphthene	<1.20	<1	<1.14	ND	ND	20	5000	20	NA	5000
Acenaphthylene	<1.20	<1	<1.14	ND	ND	300	3000	300	NA	3000
Anthracene	<1.20	<1	<1.14	ND	ND	600	600	2000	NA	3000
Benz[a]Anthracene	<1.20	<1	<1.14	ND	ND	1	3000	1	NA	1000
Benzo[a]Pyrene	<0.0964	<1.5	<0.0909	ND	ND	0.2	3000	0.2	NA	500
Benzo[b]Fluoranthene	<1.20	<1	<1.14	ND	ND	1	3000	1	NA	400
Benzo[g,h,i]Perylene	<1.81	<1.5	<1.70	ND	ND	300	3000	300	NA	3000
Benzo[k]Fluoranthene	<0.145	<0.120	<0.136	ND	ND	0.1	3000	1	NA	100
Chrysene	<1.20	<1	<1.14	ND	ND	2	3000	2	NA	3000
Dibenzo[a,h]Anthracene	<0.602	<0.500	<0.568	ND	ND	0.5	3000	1	20	50000
Fluoranthene	<1.20	<1	<1.14	ND	ND	200	200	90	NA	200
Fluorene	<1.20	<1	<1.14	ND	ND	300	3000	300	NA	3000
Indeno[1,2,3-c,d]Pyrene	<1.20	<0.240	<0.273	ND	ND	0.5	3000	0.5	NA	100
Naphthalene	<1.20	<1	<1.14	8.1	ND	20	6000	140	1000	20000
Phenanthrene	<1.20	<1	<1.14	ND	ND	50	50	300	NA	50
Pyrene	<1.81	<1.5	<1.7	ND	ND	200	3000	80	NA	20
C9-C18 Aliphatic Hydrocarbons1	<120	<100	<114	ND	ND	1000	1000	4000	1000	20000
C19-C36 Aliphatic Hydrocarbons1	<120	<100	<114	ND	ND	5000	20000	5000	NA	20000
C11-C22 Aromatic Hydrocarbons1,2	<120	<100	<114	ND	ND	200	30000	200	50000	30000
POLYCHLORINATED BIPHENYLS										
Aroclor 1016/1242	<0.375	<0.303	<0.366	ND	ND	70	50000	0.5	NA	0.3
Aroclor 1221	<0.375	<0.303	<0.366	ND	ND	5	2000	0.5	NA	0.3
Aroclor 1232	<0.375	<0.303	<0.366	ND	ND	1000	6000	0.5	NA	0.3
Aroclor 1248	<0.375	<0.303	<0.366	ND	ND	700	4000	0.5	NA	0.3
Aroclor 1254*	**0.871**	**0.72**	**0.83**	**2.6**	ND	6000	6000	0.5	NA	0.3
Aroclor 1260	<0.375	<0.303	<0.366	ND	ND	6000	6000	0.5	NA	0.3
Aroclor 1262	<0.375	<0.303	<0.366	ND	ND	20	6000	0.5	NA	0.3
Aroclor 1268	<0.375	<0.303	<0.366	ND	ND	400	1000	0.5	NA	0.3
DISSOLVED LEAD	<0.0150	<0.0150	<0.0150	ND	NA	1000	1000	15	NA	10

* sample was not filtered prior to lab analysis

** Pesticides detected in sample at concentrations less than the RCGW-2 standards.

- undefined in MCP

Bold italics indicates RC threshold has been exceeded

Bold indicate laboratory method reporting limit exceeded

NA - Not Applicable

Table 3
Toxicity Values for Site Compounds
Cancer Slope Factors

Compound name	Oral Slope Factor $(mg/(kg*d))^{-1}$	Inhalation Unit Risk $(ug/m^3)^{-1}$	Inhalation Slope Factor $(mg/(kg*d))^{-1}$	Ref	Weight of Evidence	Study Information
EPH Target Analytes						
Acenaphthene	none	none	none	I		
Acenaphthylene	none	none	none	I	D	No human data; inadequate animal data
Anthracene	none	none	none	I	D	No human data; inadequate animal data
Benzo(a)anthracene	7.3E-01	2.1E-04	7.3E-01	I	B2	Tumors in mice by gavage, injection and topical application
Benzo(a)pyrene	7.3E+00	2.1E-03	7.3E+00	I	B2	Multiple animal studies and species by numerous routes
Benzo(b)fluoranthene	7.3E-01	2.1E-04	7.3E-01	I	B2	Tumors in mice by lung implantation, injection, and skin painting
Benzo(g,h,i)perylene	none	none	none	I	D	No human data; inadequate animal data
Benzo(k)fluoranthene	7.3E-02	2.1E-05	7.3E-02	I	B2	Tumors in mice by lung implantation and skin painting
Chrysene	7.3E-02	2.1E-05	7.3E-02	I	B2	Tumors in mice by injection
Dibenzo(a,h)anthracene	7.3E+00	2.1E-03	7.3E+00	I	B2	Tumors in mice by oral & dermal; in other species by injection
Fluoranthene	none	none	none	I	D	No human data; inadequate animal data
Fluorene	none	none	none	I	D	No human data; inadequate animal data
Indeno(1,2,3-cd)pyrene	7.3E-01	2.1E-04	7.3E-01	I	B2	Tumors in mice by implants, injection and dermal
2-Methylnaphthalene	none	none	none	I	NA	
Naphthalene	none	none	none	I	C	Inadequate human data; limited animal data
Phenanthrene	none	none	none	I	D	No human data; inadequate animal data
Pyrene	none	none	none	I	D	No human data; inadequate animal data
Extractable Petroleum Hydrocarbons						
C19-C36 Aliphatics	none	none	none	DEP08	NA	
C11-C22 Aromatics	none	none	none	DEP08	NA	
PCBs						
PCBs	2.0E+00	1.0E-04	2.0E+00	I	B2	Rat dietary studies-liver tumors; Inhalation unit risk based on oral studies data
Metals						
Lead	none	none	none	I	B2	Renal tumors in rats and mice by diet and subcutaneous routes

Notes:
NA - Not Available.
[1] - Subchronic RfD and RfC assumed to be the same value as the Chronic RfD and RfC, unless presented otherwise in HEAST or MADEP, 2008.
R - Route-to-route extrapolation.

References:
DEP08 - MassDEP, 2008. 310 CMR 40.0000, The Massachusetts Contingency Plan. MCP Numerical Standards Derivation. Workbook: MCP Toxicity. February 2008.
H97 - USEPA, 1997a. Health Effects Assessment Summary Tables (HEAST). July 1997. (A) - Alternate.
I - USEPA, 2008. IRIS - Integrated Risk Information System. September 2008.

Table 3
Toxicity Values for Site Compounds
Reference Doses and Reference Concentrations

Compound name	Oral Chronic RfD (mg/(kg*d))	Oral Subchronic RfD [1] (mg/(kg*d))	Ref	Inhalation Chronic RfC (ug/m^3)	Inhalation Subchronic RfC [1] (ug/m^3)	Ref	Study Information Oral; Inhalation	Critical Effect or Target Organ Oral; Inhalation
EPH Target Analytes								
Acenaphthene	6.0E-02	6.0E-01	I, H97	5.0E+01	5.0E+02	DEP08	Mouse oral gavage; RfC based on aromatic mixture	Liver; Body weight reduction, hepatic, renal and developmental effects
Acenaphthylene	3.0E-02	3.0E-01	DEP08	5.0E+01	5.0E+00	DEP08	Based on toxicity information for pyrene; RfC based on aromatic mixtures	Kidney effects; Body weight reduction, hepatic, renal and developmental effects
Anthracene	3.0E-01	3.0E+00	I, H97	5.0E+01	5.0E+02	DEP08	Mouse oral gavage; RfC based on aromatic mixture	None observed; Body weight reduction, hepatic, renal and developmental effects
Benzo(a)anthracene	3.0E-02	3.0E-01	DEP08	5.0E+01	5.0E+02	DEP08	Based on toxicity information for aromatic mixtures	Nephrotoxicity; Body weight reduction, hepatic, renal and developmental effects
Benzo(a)pyrene	3.0E-02	3.0E-01	DEP08	5.0E+01	5.0E+02	DEP08	Based on toxicity information for aromatic mixtures	Nephrotoxicity; Body weight reduction, hepatic, renal and developmental effects
Benzo(b)fluoranthene	3.0E-02	3.0E-01	DEP08	5.0E+01	5.0E+02	DEP08	Based on toxicity information for aromatic mixtures	Nephrotoxicity; Body weight reduction, hepatic, renal and developmental effects
Benzo(g,h,i)perylene	3.0E-02	3.0E-01	DEP08	5.0E+01	5.0E+02	DEP08	Based on toxicity information for aromatic mixtures	Nephrotoxicity; Body weight reduction, hepatic, renal and developmental effects
Benzo(k)fluoranthene	3.0E-02	3.0E-01	DEP08	5.0E+01	5.0E+02	DEP08	Based on toxicity information for aromatic mixtures	Nephrotoxicity; Body weight reduction, hepatic, renal and developmental effects
Chrysene	3.0E-02	3.0E-01	DEP08	5.0E+01	5.0E+02	DEP08	Based on toxicity information for aromatic mixtures	Nephrotoxicity; Body weight reduction, hepatic, renal and developmental effects
Dibenzo(a,h)anthracene	3.0E-02	3.0E-01	DEP08	5.0E+01	5.0E+02	DEP08	Based on toxicity information for aromatic mixtures	Nephrotoxicity; Body weight reduction, hepatic, renal and developmental effects
Fluoranthene	4.0E-02	4.0E-01	I, H97	5.0E+01	5.0E+02	DEP08	Mouse gavage; RfC based on aromatic mixture	Kidney, liver, and blood; Body weight reduction, hepatic, renal and developmental effects
Fluorene	4.0E-02	4.0E-01	I, H97	5.0E+01	5.0E+02	DEP08	Mouse gavage; RfC based on aromatic mixture	Blood; Body weight reduction, hepatic, renal and developmental effects
Indeno(1,2,3-cd)pyrene	3.0E-02	3.0E-01	DEP08	5.0E+01	5.0E+02	DEP08	Based on toxicity information for aromatic mixtures	Nephrotoxicity; Body weight reduction, hepatic, renal and developmental effects
2-Methylnaphthalene	4.0E-03	4.0E-02	I, DEP08	5.0E+01	5.0E+02	DEP08	Mouse dietary; RfC based on aromatic mixture	Lung function; Body weight reduction, hepatic, renal and developmental effects
Naphthalene	2.0E-02	2.0E-01	I, DEP08	3.0E+00	3.0E+00	I	Rat subchronic oral; Mouse chronic inhalation	Decreased body weight; Nasal
Phenanthrene	3.0E-02	3.0E-01	DEP08	5.0E+01	5.0E+02	DEP08	Based on toxicity information for aromatic mixtures	Nephrotoxicity; Body weight reduction, hepatic, renal and developmental effects
Pyrene	3.0E-02	3.0E-01	I, H97	5.0E+01	5.0E+02	DEP08	Mouse oral gavage; Based on toxicity information for aromatic mixtures	Kidney; Body weight reduction, hepatic, renal and developmental effects
Extractable Petroleum Hydrocarbons								
C19-C36 Aliphatics	2.0E+00	6.0E+00	DEP08	NA	NA	DEP08	RfD based on eicosane as a reference compound	Liver granuloma; NA
C11-C22 Aromatics	3.0E-02	3.0E-01	DEP08	5.0E+01	5.0E+02	DEP08	RfD based on toxicity information for pyrene; RfC based on aromatic mixtures	Nephrotoxicity; Body weight reduction, hepatic, renal and developmental effects
PCBs								
PCBs	2.0E-05	5.0E-05	I, H97	2.0E-02	2.0E-02	DEP08	Monkey clinical and immunologic studies	Ocular, nail, and blood effects
Metals								
Lead	7.5E-04	7.5E-04	DEP08	1.0E+00	1.0E+00	DEP08	Back-calculated from drinking water action level	Central nervous system; Central nervous system

Notes:
NA - Not Available.
[1] - Subchronic RfD and RfC assumed to be the same value as the Chronic RfD and RfC, unless presented otherwise in HEAST or MADEP, 2008.
R - Route-to-route extrapolation.

References:
DEP08 - MassDEP, 2008a. 310 CMR 40.0000, The Massachusetts Contingency Plan. MCP Numerical Standards Derivation. Workbook: MCP Toxicity. February 2008.
H97 - USEPA, 1997a. Health Effects Assessment Summary Tables (HEAST). July 1997. (A) - Alternate.
I - USEPA, 2008a. IRIS - Integrated Risk Information System. August 2008.

Table 4
Relative Absorption Factors (RAFs)

Compound Name	Ingestion Soil		Dermal Soil	
	Carcinogen	Non-Carcinogen	Carcinogen	Non-Carcinogen
EPH Target Analytes				
Acenaphthene	NC	0.36	NC	0.1
Acenaphthylene	NC	0.36	NC	0.1
Anthracene	NC	0.36	NC	0.1
Benzo(a)anthracene	0.28	0.28	0.02	0.02
Benzo(a)pyrene	0.28	0.28	0.02	0.02
Benzo(b)fluoranthene	0.28	0.28	0.02	0.02
Benzo(g,h,i)perylene	NC	0.36	NC	0.1
Benzo(k)fluoranthene	0.28	0.28	0.02	0.02
Chrysene	0.28	0.28	0.02	0.02
Dibenzo(a,h)anthracene	0.28	0.28	0.02	0.02
Fluoranthene	NC	0.36	NC	0.1
Fluorene	NC	0.36	NC	0.1
Indeno(1,2,3-cd)pyrene	0.28	0.28	0.02	0.02
2-Methylnaphthalene	NC	0.36	NC	0.1
Naphthalene	NC	0.36	NC	0.1
Phenanthrene	NC	0.36	NC	0.1
Pyrene	NC	0.36	NC	0.1
Extractable Petroleum Hydrocarbons				
C19-C36 Aliphatics	NC	1	NC	0.1
C11-C22 Aromatics	NC	0.36	NC	0.1
Metals				
Lead	NC	0.5	NC	0.006
Mercury	NC	1	NC	0.05
Nickel	NC	1	NC	0.35
Selenium	NC	1	NC	0.002
Silver	NC	1	NC	0.25
Thallium	NC	1	NC	0.01
Vanadium	NC	1	NC	0.03
Zinc	NC	1	NC	0.02
Cyanide	NC	1	NC	0.3

NC - Non-carcinogen
MassDEP, 2008a.

Table 5
Exposure Assumptions and Equations for Construction Worker - Incidental Ingestion of and Dermal Contact with Soil, and Inhalation of Airborne Particulates

Construction Worker - Soil: Table CW-2
Equations to Calculate Cancer Risk for Construction Worker

ShortForm Version 01-07

Cancer Risk from Ingestion

$$ELCR_{ing} = LADD_{ing} * CSF_{oral}$$

$$LADD_{ing} = \frac{EPC * IR * RAF_{c\text{-}ing} * EF * ED_{ing} * EP * C1}{BW * AP_{lifetime}}$$

Cancer Risk from Dermal Absorption

$$ELCR_{derm} = LADD_{derm} * CSF_{oral}$$

$$LADD_{derm} = \frac{EPC * SA * AF * RAF_{c\text{-}derm} * EF * ED_{derm} * EP * C1}{BW * AP_{lifetime}}$$

Cancer Risk from Particulate Inhalation - Gastrointestinal Absorption

$$ELCR_{inh\text{-}GI} = LADD_{inh\text{-}GI} * CSF_{oral}$$

$$LADD_{inh\text{-}GI} = \frac{EPC * RCAF_{inh\text{-}gi} * PM_{10} * VR_{work} * RAF_{c\text{-}ing} * EF * ED_{inh} * EP * C2 * C3 * C4}{BW * AP_{lifetime}}$$

Cancer Risk from Particulate Inhalation - Pulmonary Absorption

$$ELCR_{inh} = LADD_{inh} * CSF_{inhalation}$$

$$LADD = \frac{EPC * RCAF_{inh} * PM_{10} * VR_{work} * RAF_{c\text{-}inh} * EF * ED_{inh} * EP * C2 * C3 * C4}{BW * AP_{lifetime}}$$

Parameter	Value	Units
CSF	OHM-specific	$(mg/kg\text{-}day)^{-1}$
LADD	age/OHM-specific	mg/kg-day
EPC	OHM-specific	mg/kg
IR	100	mg/day
$RAF_{c\text{-}ing}$	OHM-specific	dimensionless
$RAF_{c\text{-}derm}$	OHM-specific	dimensionless
$RAF_{c\text{-}inh}$	OHM-specific	dimensionless
EF	0.714	event/day
$ED_{ing\ \&\ derm}$	1	day/event
ED_{inh}	0.333	day/event
EP	182	days
C1	1.0E-06	kg/mg
C2	1.0E-09	kg/µg
C3	1440	min/days
C4	1.0E-03	m^3/L
BW	58.0	kg
$AP_{(lifetime)}$	25,550	days
VR_{work}	60	L/min
AF	0.29	mg/cm^2
SA	3473	cm^2/day
$RCAF_{inh\text{-}gi}$	1.5	dimensionless
$RCAF_{inh}$	0.5	dimensionless
PM_{10}	60	$\mu g/m^3$

Table 5 (Cont'd)
Exposure Assumptions and Equations for Construction Worker - Incidental Ingestion of and Dermal Contact with Soil, and Inhalation of Airborne Particulates

Construction Worker - Soil: Table CW-3
Equations to Calculate Noncancer Risk for Construction Worker

ShortForm Version 01-07

Noncancer Risk from Ingestion

$$HQ_{ing} = \frac{ADD_{ing}}{RfD_{oral\text{-}subchronic}}$$

$$ADD_{ing} = \frac{EPC * IR * RAF_{nc\text{-}ing} * EF * ED_{ing} * EP * C1}{BW * AP_{noncancer}}$$

Noncancer Risk from Dermal Absorption

$$HQ_{derm} = \frac{ADD_{derm}}{RfD_{oral\text{-}subchronic}}$$

$$ADD_{dermal} = \frac{EPC * SA * AF * RAF_{nc\text{-}derm} * EF * ED_{dermal} * EP * C1}{BW * AP_{noncancer}}$$

Noncancer Risk from Particulate Inhalation - Gastrointestinal Absorption

$$HQ_{inh\text{-}GI} = \frac{ADD_{inh\text{-}GI}}{RfD_{oral\text{-}subchronic}}$$

$$ADD_{inh\text{-}GI} = \frac{EPC * RCAF_{inh\text{-}gi} * PM_{10} * VR_{work} * RAF_{nc\text{-}ing} * EF * ED_{inh} * EP * C2 * C3 * C4}{BW * AP_{noncancer}}$$

Noncancer Risk from Particulate Inhalation - Pulmonary Absorption

$$HQ_{inh} = \frac{ADD}{RfD_{inhalation\text{-}subchronic}}$$

$$ADD_{inh} = \frac{EPC_{soil} * RCAF_{inh} * PM_{10} * VR_{work} * RAF_{nc\text{-}inh} * EF * ED_{inh} * EP * C2 * C3 * C4}{BW * AP_{noncancer}}$$

Parameter	Value	Units
RfD	OHM-specific	mg/kg-day
ADD	OHM-specific	mg/kg-day
EPC	OHM-specific	mg/kg
IR	100	mg/day
$RAF_{nc\text{-}ing}$	OHM-specific	dimensionless
$RAF_{nc\text{-}derm}$	OHM-specific	dimensionless
$RAF_{nc\text{-}inh}$	OHM-specific	dimensionless
EF	0.714	event/day
$EF_{cyanide}$	1	event/day
$ED_{ing\ \&\ derm}$	1	day/event
ED_{inh}	0.333	day/event
EP	182	days
$EP_{cyanide}$	1.00	day
C1	1.0E-06	kg/mg
C2	1.0E-09	kg/µg
C3	1440	min/days
C4	1.0E-03	m^3/L
BW	58.0	kg
$AP_{noncancer}$	182	days
$AP_{cyanide}$	1	day
VR_{work}	60	L/min
AF	0.29	mg/cm^2
SA	3473	cm^2/day
$RCAF_{inh\text{-}gi}$	1.5	dimensionless
$RCAF_{inh}$	0.5	dimensionless
PM10	60	$\mu g/m^3$

Cyanide can cause a significant health risk from a one-time exposure to concentrations that are often found in the environment. As such, risk is calculated for a single exposure. Thus, for cyanide, the exposure frequency (EF) is 1 event/day, while both the exposure period (EP) and averaging period (AP) are 1 day.

Table 5 (Cont'd)
Exposure Assumptions and Equations for Construction Worker - Incidental Ingestion of and Dermal Contact with Soil, and Inhalation of Airborne Particulates

Construction Worker - Soil: Table CW-4
Definitions and Exposure Factors

ShortForm Version 01-07

Parameter	Value	Units	Notes
ELCR - Excess Lifetime Cancer Risk	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal, inh=inhalation)
HI - Hazard Index	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal, inh=inhalation)
CSF - Cancer Slope Factor	chemical specific	$(mg/kg\text{-}day)^{-1}$	see Table CW-5.
RfD - Reference Dose	chemical specific	mg/kg-day	see Table CW-5.
LADD - Lifetime Average Daily Dose	chemical specific	mg/kg-day	Pathway specific. See Table CW-2.
ADD - Average Daily Dose	chemical specific	mg/kg-day	Pathway specific. See Table CW-3.
EPC - Exposure Point Concentration	chemical specific	µg/L	see Table CW-1.
IR - Soil Ingestion Rate	100	mg/day	MADEP. 2002. Technical Update: Calculation of an Enhanced Soil Ingestion Rate. (http://www.mass.gov/dep/ors/orspubs.htm).
RAF_c - Relative Absorption Factor for Cancer Effects	chemical specific	dimensionless	Pathway specific - see Table CW-5.
RAF_{nc} - Relative Absorption Factor for Noncancer Effects	chemical specific	dimensionless	Pathway specific - see Table CW-5.
EF - Exposure Frequency	0.714	event/day	5 days/week; MADEP 1995 Guidance for Disposal Site Risk Characterization pg B-38.
$EF_{cyanide}$ - Exposure Frequency for Cyanide Exposures	1.00	event/day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. Page 5-5.
$ED_{ing,derm}$ - Exposure Duration for ingestion or dermal exposure	1	day/event	
ED_{inh} - Exposure Duration for inhalation exposure	0.333	day/event	Represents 8 hours / event.
EP - Exposure Period	182	days	MADEP 1995 Guidance for Disposal Site Risk Characterization pg B-38
$EP_{cyanide}$ - Exposure period for cyanide exposure	1	day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. Page 5-5.
BW - Body Weight	58.0	kg	U.S. EPA. 1997. Exposure Factors Handbook. Table 7-7, Females, ages 18 - 25.
$AP_{(lifetime)}$ - Averaging Period for lifetime	25,550	days	Represents 30 years
$AP_{(noncancer)}$ - Averaging Period for noncancer	182	days	MADEP 1995 Guidance for Disposal Site Risk Characterization pg B-38
$AP_{cyanide}$ - Averaging period for assessing cyanide exposure	1	day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. Page 5-5.
AF - Adherence Factor	0.29	mg/cm^2	MA DEP. 2002 Technical Update: Weighted Skin-Soil Adherence Factors. (http://www.mass.gov/dep/ors/orspubs.htm)
VR_{work} - Ventilation Rate during work (heavy exertion)	60	L/min	Table B-4 MADEP 1995 Guidance for Disposal Site Risk Characterization.
SA - Surface Area	3473	cm^2/day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. 50th percentile for females. Appendix Table B-2.
$RCAF_{inh\text{-}gi}$ - Relative Concentration Adjustment Factor, gastrointestinal	1.5	dimensionless	MADEP 2007. Characterization of Risks Due to Inhalation of Particulates by Construction Workers
$RCAF_{inh}$ - Relative Concentration Adjustment Factor, inhalation	0.5	dimensionless	MADEP 2002. Characterization of Risks Due to Inhalation of Particulates by Construction Workers
PM10 - Concentration of PM_{10}	60	$\mu g/m^3$	MADEP 1995 Guidance for Disposal Site Risk Characterization pg B-11

Table 6
Exposure Assumptions and Equations for Resident - Ingestion of and Dermal Contact with Soil, and Ingestion of Homegrown Produce

Resident - Soil: Table RS-2
Equations to Calculate Cancer Risk for Resident (Age 1-31 years)

Cancer Risk from Ingestion

$$ELCR_{ing} = LADD_{ing(1\text{-}31)} * CSF$$

$$LADD_{ing\ (1\text{-}31)} = LADD_{ing\ (1\text{-}8)} + LADD_{ing\ (8\text{-}15)} + LADD_{ing\ (15\text{-}31)}$$

$$LADD_{ing\ (age\ group\ x)} = \frac{[OHM]_{soil} * IR_x * RAF_{c\text{-}ing} * EF_{ing} * ED * EP_x * C}{BW_x * AP_{lifetime}}$$

Cancer Risk from Dermal Absorption

$$ELCR_{derm} = LADD_{derm} * CSF$$

$$LADD_{derm\ (1\text{-}31)} = LADD_{derm\ (1\text{-}8)} + LADD_{derm\ (8\text{-}15)} + LADD_{derm\ (15\text{-}31)}$$

$$LADD_{derm(age\ group\ x)} = \frac{[OHM]_{soil} * SA_x * RAF_{c\text{-}derm} * SAF_x * EF_{derm} * ED * EP_x * C}{BW_x * AP_{lifetime}}$$

Cancer Risk from Homegrown Produce

$$ELCR_{produce} = LADD_{produce(1\text{-}31)} * CSF$$

$$LADD_{produce(1\text{-}31)} = LADD_{produce(1\text{-}8)} + LADD_{produce(8\text{-}15)} + LADD_{produce(15\text{-}31)}$$

$$LADD_{produce(age\ x)} = \frac{[OHM_{soil}] * PUF * PIR_x * RAF_{produce} * EF_{produce} * ED * EP_x * C}{BW_x * AP_{lifetime}}$$

Vlookup Version v0406

Parameter	Value	Units
CSF	OHM specific	$(mg/kg\text{-}day)^{-1}$
LADD	age/OHM specific	mg/kg-day
$[OHM]_{soil}$	OHM specific	mg/kg
$IR_{(1\text{-}8)}$	100	mg/day
$IR_{(8\text{-}15)}$	50	mg/day
$IR_{(15\text{-}31)}$	50	mg/day
$PIR_{(1\text{-}8)}$	12,099	mg/day
$PIR_{(8\text{-}15)}$	17,809	mg/day
$PIR_{(15\text{-}31)}$	24,420	mg/day
$RAF_{c\text{-}ing}$	OHM specific	dimensionless
$RAF_{c\text{-}derm}$	OHM specific	dimensionless
$RAF_{c\text{-}produce}$	OHM specific	dimensionless
$EF_{ing,derm}$	0.412	event/day
$EF_{produce}$	1	event/day
ED	1	day/event
$EP_{(1\text{-}8)}$	7	years
$EP_{(8\text{-}15)}$	7	years
$EP_{(15\text{-}31)}$	16	years
C	0.000001	kg/mg
$BW_{(1\text{-}8)}$	17	kg
$BW_{(8\text{-}16)}$	39.9	kg
$BW_{(16\text{-}31)}$	58.7	kg
$AP_{(lifetime)}$	70	years
$SA_{(1\text{-}8)}$	2431	cm^2 / day
$SA_{(8\text{-}15)}$	4427	cm^2 / day
$SA_{(15\text{-}31)}$	5653	cm^2 / day
$SAF_{(1\text{-}8)}$	0.35	mg/cm^2
$SAF_{(8\text{-}15)}$	0.14	mg/cm^2
$SAF_{(15\text{-}31)}$	0.13	mg/cm^2
PUF	OHM specific	$(mg/mg)(mg/mg)^{-1}$

Table 6 (Cont'd)
Exposure Assumptions and Equations for Resident - Incidental Ingestion of and Dermal Contact with Soil, and Ingestion of Homegrown Produce

Resident - Soil: Table RS-3
Equations to Calculate Chronic Noncancer Risk for Resident Child (Age 1-8 years)

Vlookup Version v0406

Chronic Noncancer Risk from Ingestion

$$HQ_{ing} = \frac{ADD_{ing}}{RfD}$$

$$ADD_{ing} = \frac{[OHM]_{soil} * IR * RAF_{nc\text{-}ing} * EF_{ing} * ED * EP * C}{BW * AP}$$

Chronic Noncancer Risk from Dermal Absorption

$$HQ_{derm} = \frac{ADD_{ing,derm}}{RfD}$$

$$ADD_{derm} = \frac{[OHM]_{soil} * SA * RAF_{nc\text{-}derm} * SAF * EF_{derm} * ED * EP * C}{BW * AP}$$

Chronic Noncancer Risk from Homegrown Produce

$$HQ_{produce} = \frac{ADD_{produce}}{RfD}$$

$$ADD_{produce} = \frac{[OHM_{soil}] * PUF * PIR * RAF_{produce} * EF * ED_{produce} * EP * C}{BW * AP}$$

Parameter	Value	Units
RfD	OHM specific	mg/kg-day
ADD	OHM specific	mg/kg-day
$[OHM]_{soil}$	OHM specific	mg/kg
IR	100	mg/day
PIR	12,099	mg/day
$RAF_{nc\text{-}ing}$	OHM specific	dimensionless
$RAF_{nc\text{-}derm}$	OHM specific	dimensionless
$RAF_{nc\text{-}produce}$	OHM specific	dimensionless
$EF_{ing,derm}$	0.412	event/day
$EF_{produce}$	1	event/day
$EF_{cyanide}$	1	event/day
ED	1	day/event
EP	7	years
$EP_{cyanide}$	1	day
C	0.000001	kg/mg
BW	17	kg
AP	7	year
$AP_{cyanide}$	1	day
SA	2431	cm^2 / day
SAF	0.35	mg/cm^2
PUF	OHM specific	(mg/mg)(mg/mg)[1]

Cyanide can cause a significant health risk from one-time exposure to concentrations that are often found in the environment. As such, risk is calculated for a single exposure. Thus, for cyanide, the exposure frequency (EF) is 1 event/day, while both the exposure period (EP) and averaging period (AP) are 1 day.

Table 6 (Cont'd)
Exposure Assumptions and Equations for Resident - Incidental Ingestion of and Dermal Contact with Soil, and Ingestion of Homegrown Produce

Resident - Soil: Table RS-4
Equations to Calculate Subchronic Noncancer Risk for Resident Child (Age 1-2 years)

Vlookup Version v0406

Subchronic Noncancer Risk from Ingestion

$$HQ_{ing} = \frac{ADD_{ing}}{RfD_{subchronic}}$$

$$ADD_{ing} = \frac{[OHM]_{soil} * IR * RAF_{nc\text{-}ing} * EF_{ing} * ED * EP * C}{BW * AP}$$

Subchronic Noncancer Risk from Dermal Absorption

$$HQ_{derm} = \frac{ADD_{derm}}{RfD_{subchronic}}$$

$$ADD_{derm} = \frac{[OHM]_{soil} * SA * RAF_{nc\text{-}derm} * SAF * EF_{derm} * ED * EP * C}{BW * AP}$$

Subchronic Noncancer Risk from Homegrown Produce

$$HQ_{produce} = \frac{ADD_{produce}}{RfD_{subchronic}}$$

$$ADD_{produce} = \frac{[OHM_{soil}] * PUF * PIR * RAF_{produce} * EF * ED_{produce} * EP * C}{BW * AP}$$

Parameter	Value	Units
RfD	OHM specific	mg/kg-day
ADD	OHM specific	mg/kg-day
$[OHM]_{soil}$	OHM specific	mg/kg
IR	100	mg/day
PIR	10,900	mg/day
$RAF_{nc\text{-}ing}$	OHM specific	dimensionless
$RAF_{nc\text{-}derm}$	OHM specific	dimensionless
$RAF_{nc\text{-}produce}$	OHM specific	dimensionless
$EF_{ing,derm}$	0.714	event/day
$EF_{produce}$	1	event/day
$EF_{cyanide}$	1	event/day
ED	1	day/event
$EP_{cyanide}$	1	day
EP	0.577	years
C	0.000001	kg/mg
BW	10.7	kg
AP	0.577	year
$AP_{cyanide}$	1	day
SA	1670	cm^2 / day
SAF	0.35	mg/cm^2
PUF	OHM specific	$(mg/mg)(mg/mg)^{-1}$

Cyanide can cause a significant health risk from one-time exposure to concentrations that are often found in the environment. As such, risk is calculated for a single exposure. Thus, for cyanide, the exposure frequency (EF) is 1 event/day, while both the exposure period (EP) and averaging period (AP) are 1 day.

Table 6 (Cont'd)
Exposure Assumptions and Equations for Resident -
Incidental Ingestion of and Dermal Contact with Soil, and Ingestion of Homegrown Produce

Resident - Soil: Table RS-5
Definitions and Exposure Factors

Vlookup Version v0406

Parameter	Value	Units	Notes
ELCR - Excess Lifetime Cancer Risk	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal, inh=inhalation)
CSF - Cancer Slope Factor	chemical specific	$(mg/kg\text{-}day)^{-1}$	see Table RS-7
LADD - Lifetime Average Daily Dose	chemical specific	mg/kg-day	Pathway specific
LADE - Lifetime Average Daily Exposure	chemical specific	$\mu g/m^3$	
HQ - Hazard Quotient	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal, inh=inhalation)
RfD - Reference Dose	chemical specific	mg/kg-day	see Table RS-7
ADD - Average Daily Dose	chemical specific	mg/kg-day	Pathway specific
ADE - Average Daily Exposure	chemical specific	mg/m^3	
EPC - Exposure Point Concentration	chemical specific	mg/kg	
PUF - Plant Uptake Factor	chemical specific	$(mg/mg)(mg/mg)^{-1}$	See Table RS-7; $(mg_{OHM}/mg_{plant})/(mg_{OHM}/mg_{soil})^{-1}$
$IR_{(1-2)}$ - Soil Ingestion Rate for age group 1-2	100	mg/day	MADEP. 2002. Technical Update: Calculation of an Enhanced Soil Ingestion Rate. (http://www.mass.gov/dep/ors/orspubs.htm)
$IR_{(1-8)}$ - Soil Ingestion Rate for age group 1-8	100	mg/day	Ibid
$IR_{(8-15)}$ - Soil Ingestion Rate for age group 8-15	50	mg/day	Ibid
$IR_{(15-31)}$ - Soil Ingestion Rate for age group 15-31	50	mg/day	Ibid
$PIR_{(1-2)}$ = Produce Ingestion Rate for age group 1-2	10,900	mg/day	see Table RS-6
$PIR_{(1-8)}$ = Produce Ingestion Rate for age group 1-8	12,099	mg/day	see Table RS-6
$PIR_{(8-15)}$ = Produce Ingestion Rate for age group 8-15	17,809	mg/day	Ibid
$PIR_{(15-31)}$ = Produce Ingestion Rate for age group 15-31	24,420	mg/day	Ibid
RAF_c - Relative Absorption Factor for Cancer Effects	chemical specific	dimensionless	
$EF_{subchronic}$ - Exposure Frequency for subchronic ingestion or dermal exposure	0.714	event/day	5 days/week
$EF_{chronic}$ - Exposure Frequency for chronic ingestion or dermal exposure	0.412	event/day	5 days/week, 30 weeks/year
EF_{cancer} - Exposure Frequency for cancer, ingestion or dermal exposure	0.412	event/day	5 days/week, 30 weeks/year
$EF_{produce}$ - Exposure Frequency for produce ingestion, cancer and noncancer	1	event/day	
$EF_{cyanide}$ - Exposure Frequency for subchronic and chronic non-cancer cyanide	1	event/day	
ED - Exposure Duration	1	day/event	
$EP_{(1-2)}$ - Exposure Period for age group 1-2	0.577	years	30 weeks
$EP_{(1-8)}$ - Exposure Period for age group 1-8	7	years	
$EP_{(8-15)}$ - Exposure Period for age group 8-15	7	years	
$EP_{(15-31)}$ - Exposure Period for age group 15-31	16	years	
$EP_{cyanide}$ - Exposure period for cyanide exposure	1	day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. Page 5-5.
$BW_{(1-2)}$ - Body Weight for age group 1-2	10.7	kg	U.S. EPA. 1997. Exposure Factors Handbook. Table 7-7, females.
$BW_{(1-8)}$ - Body Weight for age group 1-8	17.0	kg	Ibid
$BW_{(8-15)}$ - Body Weight for age group 8-15	39.9	kg	Ibid
$BW_{(15-31)}$ - Body Weight for age group 15-31	58.7	kg	Ibid
$AP_{subchronic}$ - Averaging Period for subchronic noncancer	0.577	years	30 weeks
$AP_{chronic}$ - Averaging Period for chronic noncancer	7	years	
AP_{cancer} - Averaging Period for lifetime	70	years	
$AP_{cyanide}$ - Averaging period for assessing cyanide exposure	1	day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. Page 5-5.
$SA_{(1-2)}$ - Surface Area for age group 1-2	1670	cm^2 / day	50th percentile of face (1/3 head), forearms, hands, lower legs, and feet for females MADEP. 1995. Guidance for Disposal Site Risk Characterization. Appendix Table B-2.
$SA_{(1-8)}$ - Surface Area for age group 1-8	2431	cm^2 / day	Ibid
$SA_{(8-15)}$ - Surface Area for age group 8-15	4427	cm^2 / day	Ibid
$SA_{(15-31)}$ - Surface Area for age group 15-31	5653	cm^2 / day	Ibid
$SAF_{(1-2)}$ - Surface Adherence Factor for age group 1-2	0.35	mg/cm^2	All SAFs developed for ShortForm according to procedure outlined in MA DEP Technical Update:
$SAF_{(1-8)}$ - Surface Adherence Factor for age group 1-8	0.35	mg/cm^2	Weighted Skin-Soil Adherence Factors, April 2002
$SAF_{(8-15)}$ - Surface Adherence Factor for age group 8-15	0.14	mg/cm^2	
$SAF_{(15-31)}$ - Surface Adherence Factor for age group 15-31	0.13	mg/cm^2	

Table 6 (Cont'd)
Exposure Assumptions and Equations for Resident - Incidental Ingestion of and Dermal Contact with Soil, and Ingestion of Homegrown Produce

Resident - Soil: Table RS-6
Homegrown Produce Ingestion Rate

Vlookup Version v0406

Data on mean produce ingestion rates (wet weight, ww) in the Northeast was obtained from the 1994-1996 Continuing Survey of Food Intakes by Individuals (USDA). Data for both genders were used for children under 6, while data for males was used for individuals 6 and older. The mean ingestion rates presented in the survey represent the arithmetic average of all individuals surveyed, regardless of whether or not they had consumed the produce item (e.g., an individual that did not consume the produce item was assigned a rate of 0 g/day). To determine the mean ingestion rate for individuals who ate each produce item, the ingestion rate for all individuals (consumers and nonconsumers) was divided by the percentage of individuals who ate the item (Table RS-6A). These mean ingestion rates for the produce consumers were summed to determine the total produce ingestion rate for each age-group and converted to dry weight assuming the produce items were all 90% water.

To convert mean ingestion rates for the age-groups studied in the survey to age-groups used in risk calculations, each age-group ingestion rate from the survey (i.e., 1 - 2 year olds, 3 - 5 year olds, 6 - 11 year olds, 12 - 19 year olds, and 20 - 39 year olds) was weighted according to the number of years spent in the risk calculation age group (i.e., 1 - 8 year olds, 8 - 15 year olds, and 15 - 31 year olds) (Table RS-6B). It was assumed that 25% of produce ingested was home-grown (Table RS-6C).

Table RS-6A

	White Potatoes			Dark-green vegetables			Deep-yellow vegetables		
Age-groups studied in survey	Ingestion Rate for All g/d (ww)	% of individuals that consumed item.	Ingestion Rate for Consumers g/d (ww)	Ingestion Rate for All g/d (ww)	% of individuals that consumed item.	Ingestion Rate for Consumers g/d (ww)	Ingestion Rate for All g/d (ww)	% of individuals that consumed item.	Ingestion Rate for Consumers g/d (ww)
1-2	28	40.3	69.5	6	10.1	59.4	5	12.7	39.4
3-5	30	37.1	80.9	5	6.5	76.9	7	12.7	55.1
6-11	47	44.2	106.3	6	9.1	65.9	2	8.5	23.5
12-19	59	40.3	146.4	2	2.3	87.0	11	15.8	69.6
20-39	76	45.1	168.5	25	14.7	170.1	4	5.7	70.2

	Tomatoes			Lettuce			Green Beans		
Age-groups studied in survey	Ingestion Rate for All g/d (ww)	% of individuals that consumed item.	Ingestion Rate for Consumers g/d (ww)	Ingestion Rate for All g/d (ww)	% of individuals that consumed item.	Ingestion Rate for Consumers g/d (ww)	Ingestion Rate for All g/d (ww)	% of individuals that consumed item.	Ingestion Rate for Consumers g/d (ww)
1-2	10	27.9	35.8	1	6	16.7	7	12.1	57.9
3-5	10	37.1	27.0	4	14	28.6	3	5.7	52.6
6-11	20	42	47.6	8	14.9	53.7	1	2	50.0
12-19	29	45.2	64.2	19	28.7	66.2	2	2.4	83.3
20-39	48	50.9	94.3	18	29.6	60.8	4	3.7	108.1

Table 6 (Cont'd)

Exposure Assumptions and Equations for Resident - Incidental Ingestion of and Dermal Contact with Soil, and Ingestion of Homegrown Produce

Table RS-6A (continued)

Age-groups studied in survey	Corn, Green peas, Lima beans: Ingestion Rate for All g/d (ww)	Corn, Green peas, Lima beans: % of individuals that consumed item.	Corn, Green peas, Lima beans: Ingestion Rate for Consumers g/d (ww)	Melons, berries: Ingestion Rate for All g/d (ww)	Melons, berries: % of individuals that consumed item.	Melons, berries: Ingestion Rate for Consumers g/d (ww)	Totals Wet Weight WWI g/day	Totals Dry Weight DWI g/day
1-2	12	15	80.0	7	9	77.8	436.4	43.6
3-5	14	21.7	64.5	14	11.6	120.7	506.3	50.6
6-11	9	13.6	66.2	5	5.9	84.7	498.0	49.8
12-19	14	9.9	141.4	17	5	340.0	998.1	99.8
20-39	12	7.3	164.4	6	4.5	133.3	969.7	97.0

Table RS-6B

Age-groups studied in survey	Years spent in age-group for 1-8 year old	Years spent in age-group for 8-15 year old	Years spent in age-group for 15-31 year old
1-2	2		
3-5	3		
6-11	2	4	
12-19		3	4
20-39			12
	7	7	16

Table RS-6C

	Produce Intake, dry weight			
	Child 1-2 years g/day	Child 1-8 years g/day	Child 8-15 years g/day	Adult 15-31 g/day
All Produce:	43.6	48.4	71.2	97.7
Homegrown:	10.9	12.1	17.8	24.4

Table 7

Exposure Assumptions and Equations for Trespasser - Incidental Ingestion of and Dermal Contact with Soil

Trespasser - Soil: Table TS-2
Equations to Calculate Cancer Risk for a Trespasser (Age 11-18 years)

Cancer Risk from Ingestion

$$ELCR_{ing} = LADD_{ing} * CSF$$

$$LADD_{ing} = \frac{[OHM]_{soil} * IR * RAF_{c\text{-}ing} * EF_{ing} * ED * EP * C}{BW * AP_{lifetime}}$$

Cancer Risk from Dermal Absorption

$$ELCR_{derm} = LADD_{derm} * CSF$$

$$LADD_{derm} = \frac{[OHM]_{soil} * SA * RAF_{c\text{-}derm} * SAF * EF_{derm} * ED * EP * C}{BW * AP_{lifetime}}$$

Vlookup Version v0207

Parameter	Value	Units
CSF	OHM specific	$(mg/kg\text{-}day)^{-1}$
LADD	age/OHM specific	mg/kg-day
$[OHM]_{soil}$	OHM specific	mg/kg
IR	50	mg/day
$RAF_{c\text{-}ing}$	OHM specific	dimensionless
$RAF_{c\text{-}derm}$	OHM specific	dimensionless
$EF_{ing,derm}$	0.164	event/day
ED	1	day/event
EP	7	years
C	0.000001	kg/mg
BW	50.7	kg
$AP_{(lifetime)}$	70	years
SA	2940	cm^2 / day
SAF	0.14	mg/cm^2

Table 7 (Cont'd)
Exposure Assumptions and Equations for Trespasser - Incidental Ingestion of and Dermal Contact with Soil

Trespasser - Soil: Table TS-3
Equations to Calculate Chronic Noncancer Risk for a Trespasser (Age 11-18 years)

Chronic Noncancer Risk from Ingestion

$$HQ_{ing} = \frac{ADD_{ing}}{RfD}$$

$$ADD_{ing} = \frac{[OHM]_{soil} * IR * RAF_{nc\text{-}ing} * EF_{ing} * ED * EP * C}{BW * AP}$$

Chronic Noncancer Risk from Dermal Absorption

$$HQ_{derm} = \frac{ADD_{ing,derm}}{RfD}$$

$$ADD_{derm} = \frac{[OHM]_{soil} * SA * RAF_{nc\text{-}derm} * SAF * EF_{derm} * ED * EP * C}{BW * AP}$$

Vlookup Version v0207

Parameter	Value	Units
RfD	OHM specific	mg/kg-day
ADD	OHM specific	mg/kg-day
$[OHM]_{soil}$	OHM specific	mg/kg
IR	50	mg/day
$RAF_{nc\text{-}ing}$	OHM specific	dimensionless
$RAF_{nc\text{-}derm}$	OHM specific	dimensionless
$EF_{ing,derm}$	0.164	event/day
$EF_{cyanide}$	1.00	event/day
ED	1	day/event
EP	7	years
$EP_{cyanide}$	1	day
C	0.000001	kg/mg
BW	50.7	kg
AP	7	year
$AP_{cyanide}$	1	day
SA	2940	cm^2 / day
SAF	0.14	mg/cm^2

Cyanide can cause a significant health risk from one-time exposure to concentrations that are often found in the environment. As such, risk is calculated for a single exposure. Thus, for cyanide, the exposure frequency (EF) is 1 event/day, while both the exposure period (EP) and averaging period (AP) are 1 day.

Table 7 (Cont'd)
Exposure Assumptions and Equations for Trespasser - Incidental Ingestion of and Dermal Contact with Soil

Trespasser - Soil: Table TS-4
Equations to Calculate Subchronic Noncancer Risk for a Trespasser (Age 11-12 years)

Vlookup Version v0207

Subchronic Noncancer Risk from Ingestion

$$HQ_{ing} = \frac{ADD_{ing}}{RfD_{subchronic}}$$

$$ADD_{ing} = \frac{[OHM]_{soil} * IR * RAF_{nc\text{-}ing} * EF_{ing} * ED * EP * C}{BW * AP}$$

Subchronic Noncancer Risk from Dermal Absorption

$$HQ_{derm} = \frac{ADD_{derm}}{RfD_{subchronic}}$$

$$ADD_{derm} = \frac{[OHM]_{soil} * SA * RAF_{nc\text{-}derm} * SAF * EF_{derm} * ED * EP * C}{BW * AP}$$

Parameter	Value	Units
RfD	OHM specific	mg/kg-day
ADD	OHM specific	mg/kg-day
$[OHM]_{soil}$	OHM specific	mg/kg
IR	50	mg/day
$RAF_{nc\text{-}ing}$	OHM specific	dimensionless
$RAF_{nc\text{-}derm}$	OHM specific	dimensionless
$EF_{ing,derm}$	0.286	event/day
$EF_{cyanide}$	1.00	event/day
ED	1	day/event
$EP_{cyanide}$	1	day
EP	0.577	years
C	0.000001	kg/mg
BW	40.3	kg
AP	0.577	year
$AP_{cyanide}$	1	day
SA	2477	cm^2 / day
SAF	0.14	mg/cm^2

Cyanide can cause a significant health risk from one-time exposure to concentrations that are often found in the environment. As such, risk is calculated for a single exposure. Thus, for cyanide, the exposure frequency (EF) is 1 event/day, while both the exposure period (EP) and averaging period (AP) are 1 day.

Table 7 (Cont'd)
Exposure Assumptions and Equations for Trespasser - Incidental Ingestion of and Dermal Contact with Soil

Trespasser - Soil: Table TS-5
Definitions and Exposure Factors

Vlookup Version v0207

Parameter	Value	Units	Notes
ELCR - Excess Lifetime Cancer Risk	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal, inh=inhalation)
CSF - Cancer Slope Factor	chemical specific	$(mg/kg\text{-}day)^{-1}$	see Table RS-7
LADD - Lifetime Average Daily Dose	chemical specific	mg/kg-day	Pathway specific
HQ - Hazard Quotient	chemical specific	dimensionless	Pathway specific (ing =ingestion, derm=dermal, inh=inhalation)
RfD - Reference Dose	chemical specific	mg/kg-day	see Table RS-7
ADD - Average Daily Dose	chemical specific	mg/kg-day	Pathway specific
EPC - Exposure Point Concentration	chemical specific	mg/kg	
IR - Soil Ingestion Rate	50	mg/day	MADEP. 2002. Technical Update: Calculation of an Enhanced Soil Ingestion Rate. (http://www.mass.gov/dep/ors/orspubs.htm)
RAF_c - Relative Absorption Factor for Cancer Effects	chemical specific	dimensionless	
$EF_{subchronic}$ - Exposure Frequency for subchronic ingestion or dermal exposure	0.286	event/day	2 days/week
$EF_{chronic}$ - Exposure Frequency for chronic ingestion or dermal exposure	0.164	event/day	2 days/week, 30 weeks/year
EF_{cancer} - Exposure Frequency for cancer, ingestion or dermal exposure	0.164	event/day	2 days/week, 30 weeks/year
$EF_{cyanide}$ - Exposure Frequency for cyanide exposure	1.00	event/day	
ED - Exposure Duration	1	day/event	
$EP_{(11\text{-}12)}$ - Exposure Period for age group 11-12	0.577	years	30 weeks
$EP_{(11\text{-}18)}$ - Exposure Period for age group 11-18	7	years	
$EP_{cyanide}$ - Exposure period for cyanide exposure	1	day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. Page 5-5.
$BW_{(11\text{-}12)}$ - Body Weight for age group 11-12	40.3	kg	U.S. EPA. 1997. Exposure Factors Handbook. Table 7-7
$BW_{(11\text{-}18)}$ - Body Weight for age group 11-18	50.7	kg	Ibid
$AP_{subchronic}$ - Averaging Period for subchronic noncancer	0.577	years	30 weeks
$AP_{chronic}$ - Averaging Period for chronic noncancer	7	years	
AP_{cancer} - Averaging Period for lifetime	70	years	
$AP_{cyanide}$ - Averaging period for assessing cyanide exposure	1	day	MADEP. 1995. Guidance for Disposal Site Risk Characterization. Page 5-5.
$SA_{(11\text{-}12)}$ - Surface Area for age group 11-12	2477	cm^2 / day	50th percentile of forearms, hands, and feet for females. MADEP 1995 Guidance for Disposal Site Risk Characterization, Table B-2.
$SA_{(11\text{-}18)}$ - Surface Area for age group 11-18	2940	cm^2 / day	Ibid
SAF - Surface Adherence Factor, Trespasser	0.14	mg/cm^2	SAF developed for ShortForm according to procedure outlined in MA DEP Technical Update: Weighted Skin-Soil Adherence Factors, April 2002.

Table 8A
Soil Exposure Point Concentrations (EPCs) - EPH and PAHs
16 Blackmer Street
New Bedford, MA

SOUTH AREA

SAMPLE IDENTIFICATION SAMPLE DEPTH (FT) COLLECTION DATE	SS-04A 0-3 09/28/99	SS-04B 0-3 09/28/99	CSS-2 0-3 03/06/00	CSS-500* 0-3 03/06/00	CSS-2/-500 0-3 Average	CGW1/S-3 0-2 03/07/00	EPC 0-3 Average
TARGET EPH							
C9-C18 Aliphatic Hydrocarbons	3.2	ND	ND	ND	ND	ND	3.2
C19-C36 Aliphatic Hydrocarbons	50	19	29	27	28	32	32
C11-C22 Aromatic Hydrocarbons	180	120	78	120	99	180	145
PAHs							
Naphthalene	0.45	0.51	ND	ND	ND	0.74	0.57
2-Methylnaphthalene	0.44	0.25	5.0	ND	5.0	ND	1.9
Acenaphthene	0.47	1.2	ND	0.9	0.9	2.1	1.2
Phenanthrene	11	14	5.4	7.9	6.7	23	14
Acenaphthylene	1.2	0.7	ND	ND	ND	ND	1.0
Fluorene	1.6	1.4	0.64	0.99	0.8	2.8	1.7
Anthracene	3.3	4.2	1.4	2.3	1.9	6.5	4.0
Fluoranthene	16	21	7.6	9.6	8.6	23	17
Pyrene	20	19	7.6	9.7	8.7	22	17
Benz[a]Anthracene	8.9	10	3.5	4.5	4.0	9.8	8.2
Chrysene	8.4	9.9	3.8	4.9	4.4	10	8.2
Benzo[b]Fluoranthene	7.7	9.1	3.9	5.1	4.5	9.7	7.8
Benzo[k]Fluoranthene	5	11	1.6	2.5	2.1	4.6	5.7
Benzo[a]Pyrene	8.2	11	3.2	4.1	3.7	8.4	7.8
Indeno[1,2,3-c,d]Pyrene	7.5	7.4	2.6	4.0	3.3	6.5	6.2
Dibenzo[a,h]Anthracene	7.5	2.5	2.6	4.0	3.3	6.5	5.0
Benzo[g,h,i]Perylene	5.3	8.3	2.0	3.6	2.8	4.7	5.3
Coal Ash			NA	NA		NA	

* Duplicate of CSS-2
ND - Not Detected by lab method
Underline italics equals one half the laboratory detection limit

Table 8A
Soil Exposure Point Concentrations (EPCs) - EPH and PAHs
16 Blackmer Street
New Bedford, MA

SOUTH AREA

SAMPLE IDENTIFICATION SAMPLE DEPTH (FT) COLLECTION DATE	SS-04A 0-3 09/28/99	SS-04B 0-3 09/28/99	CSS-2/-500 0-3 Average	CGW1/S-3 0-2 03/07/00	CSS-2 3-6 03/06/00	CSS-500* 3-6 03/06/00	CSS-2/-500 3-6 Average	BH2 2.5-4 05/25/06	BH2 4-6.5 05/25/06	EPC 0-6.5 Average
TARGET EPH										
C9-C18 Aliphatic Hydrocarbons	3.2	ND	ND	ND	ND	ND	ND	*6.6*	*5.9*	5.2
C19-C36 Aliphatic Hydrocarbons	50	19	28	32	17	16	16.5	32.2	19.2	28
C11-C22 Aromatic Hydrocarbons	180	120	99	180	280	240	260	117	177	162
PAHs										
Naphthalene	0.45	0.51	ND	0.7	2.2	0.55	1.4	0.203	0.28	0.6
2-Methylnaphthalene	0.44	0.25	5.0	ND	0.86	ND	0.9	*0.033*	*0.029*	1.1
Acenaphthene	0.47	1.2	0.9	2.1	2	0.85	1.4	0.405	0.689	1.0
Phenanthrene	11	14	6.7	23.0	36	27	32	5.77	8.26	14
Acenaphthylene	1.2	0.7	ND	ND	0.6	0.54	0.6	0.213	0.276	0.6
Fluorene	1.6	1.4	0.8	2.8	3.8	2.2	3.0	0.495	0.795	1.6
Anthracene	3.3	4.2	1.9	6.5	8.3	6.4	7.4	1.13	1.72	3.7
Fluoranthene	16	21	8.6	23.0	41	35	38	8.43	10.8	18
Pyrene	20	19	8.7	22.0	38	32	35	7.11	8.91	17
Benz[a]Anthracene	8.9	10	4.0	9.8	17	16	16.5	3.47	4.38	8.2
Chrysene	8.4	9.9	4.4	10.0	16	13	14.5	3.47	4.47	7.9
Benzo[b]Fluoranthene	7.7	9.1	4.5	9.7	18	14	16.0	*0.0985*	*0.088*	6.7
Benzo[k]Fluoranthene	5	11	2.1	4.6	3.5	5.6	4.6	*0.066*	*0.059*	3.9
Benzo[a]Pyrene	8.2	11	3.7	8.4	13	11	12.0	*0.066*	*0.059*	6.2
Indeno[1,2,3-c,d]Pyrene	7.5	7.4	3.3	6.5	10	9.2	9.6	*0.0329*	*0.0294*	4.9
Dibenzo[a,h]Anthracene	7.5	2.5	3.3	6.5	10	9.2	9.6	*0.066*	*0.059*	4.2
Benzo[g,h,i]Perylene	5.3	8.3	2.8	4.7	7.3	6.7	7.0	*0.066*	*0.059*	4.0
Coal Ash				NA	NA	NA		NA	COAL ASH	

* Duplicate of CSS-2
ND - Not Detected by lab method
Underline italics equals one half the laboratory detection limit

Table 8A (cont'd.)
Soil Exposure Point Concentrations (EPCs) - EPH and PAHs
16 Blackmer Street
New Bedford, MA

NORTH AREA

SAMPLE IDENTIFICATION SAMPLE DEPTH (FT) COLLECTION DATE	BH1 0-2.5 05/25/06	CSE TP-1 0-3 05/25/06	CSE TP-2 0-3 05/25/06	CSE TP-3 0-3 05/25/06	Duplicate 3 (CSETP3 0-3') 05/25/06	CSE TP-3 0-3 Average	EPC 0-3 Average
TARGET EPH							
C9-C18 Aliphatic Hydrocarbons	<11.5	<11.5	<12.2	<14.5	<13.2	ND	ND
C19-C36 Aliphatic Hydrocarbons	20.2	*7.3*	15.2	12.7	44.1	28.4	18.6
C11-C22 Aromatic Hydrocarbons	292.0	*7.3*	902.0	337.0	613.0	475.0	419.1
PAHs							
Naphthalene	0.147	*0.036*	*0.038*	0.210	0.185	0.20	0.10
2-Methylnaphthalene	*0.029*	*0.036*	*0.038*	*0.030*	*0.031*	ND	0.03
Acenaphthene	0.602	*0.073*	*0.076*	0.301	0.827	0.56	0.33
Phenanthrene	25.800	0.380	36.400	9.350	21.500	15.43	19.50
Acenaphthylene	1.260	*0.036*	1.390	0.619	0.731	0.68	0.84
Fluorene	1.830	0.018	1.320	0.535	1.410	0.97	1.04
Anthracene	4.660	*0.036*	7.840	1.600	3.700	2.65	3.80
Fluoranthene	33.000	0.357	64.700	20.700	33.600	27.15	31.30
Pyrene	27.800	0.304	59.500	18.300	33.300	25.80	28.35
Benz[a]Anthracene	12.100	0.186	29.400	9.850	15.700	12.78	13.62
Chrysene	11.300	0.275	26.000	9.870	16.400	13.14	12.68
Benzo[b]Fluoranthene	<0.172	<0.217	<0.227	<0.181	<0.185	ND	ND
Benzo[k]Fluoranthene	<0.115	<0.145	<0.152	<0.120	<0.123	ND	ND
Benzo[a]Pyrene	<0.115	<0.145	<0.152	<0.120	<0.123	ND	ND
Indeno[1,2,3-c,d]Pyrene	<0.0575	<0.0725	<0.0758	<0.0602	<0.0617	ND	ND
Dibenzo[a,h]Anthracene	<0.115	<0.145	<0.152	<0.120	<0.123	ND	ND
Benzo[g,h,i]Perylene	<0.115	<0.145	<0.152	<0.120	<0.123	ND	ND
COAL ASH	NA	COAL ASH	NA	NA	NA		

Underline italics equals one-half the laboratory detection limit
NA - Not Analyzed
ND - Not Detected

Table 8A (cont'd.)
Soil Exposure Point Concentrations (EPCs) - EPH and PAHs
16 Blackmer Street
New Bedford, MA

NORTH AREA

SAMPLE IDENTIFICATION SAMPLE DEPTH (FT) COLLECTION DATE	BH1 0-2.5 05/25/06	BH-1 2.5-5 05/25/06	CSE TP-1 0-3 05/25/06	CSE TP-1 3-6 05/25/06	CSE TP-2 0-3 05/25/06	CSE TP-2 3-6 05/25/06	CSE TP-3 0-3 05/25/06	Duplicate 3 (CSETP3 0-3') 05/25/06	CSE TP-3 0-3 Average	CSE TP-3 3-6 05/25/06	EPC 0-6 Average
TARGET EPH											
C9-C18 Aliphatic Hydrocarbons	<11.5	<12.2	<14.5	<13.2	<15.2	<15.4	<12.0	<12.3	ND	<13.3	ND
C19-C36 Aliphatic Hydrocarbons	20.2	83.4	*7.3*	*6.6*	15.2	54.7	12.7	44.1	28.4	*6.7*	29.6
C11-C22 Aromatic Hydrocarbons	292.0	242.0	*7.3*	*6.6*	902.0	84.3	337.0	613.0	475.0	*6.7*	252.0
PAHs											
Naphthalene	0.147	0.239	*0.036*	*0.033*	*0.038*	*0.038*	0.210	0.185	0.20	*0.033*	0.10
2-Methylnaphthalene	*0.029*	*0.030*	*0.036*	*0.033*	*0.038*	*0.038*	*0.030*	*0.031*	ND	*0.033*	ND
Acenaphthene	0.602	0.420	*0.073*	0.132	*0.076*	*0.077*	0.301	0.827	0.56	*0.067*	0.25
Phenanthrene	25.800	6.740	0.380	*0.033*	36.400	1.500	9.350	21.500	15.43	*0.033*	10.79
Acenaphthylene	1.260	0.307	*0.036*	*0.033*	1.390	0.246	0.619	0.731	0.68	*0.033*	0.50
Fluorene	1.830	0.505	*0.018*	*0.016*	1.320	*0.019*	0.535	1.410	0.97	*0.017*	0.59
Anthracene	4.660	1.300	*0.036*	*0.033*	7.840	0.317	1.600	3.700	2.65	*0.033*	2.11
Fluoranthene	33.000	11.400	0.357	*0.132*	64.700	3.170	20.700	33.600	27.15	*0.134*	17.51
Pyrene	27.800	10.100	0.304	*0.132*	59.500	2.950	18.300	33.300	25.80	*0.134*	15.84
Benz[a]Anthracene	12.100	4.900	0.186	0.066	29.400	1.310	9.850	15.700	12.78	*0.067*	7.60
Chrysene	11.300	5.110	0.275	*0.066*	26.000	1.460	9.870	16.400	13.14	*0.067*	7.18
Benzo[b]Fluoranthene	<0.172	<0.183	<0.217	<0.197	<0.227	<0.231	<0.181	<0.185	ND	<0.200	ND
Benzo[k]Fluoranthene	<0.115	<0.122	<0.145	<0.132	<0.152	<0.154	<0.120	<0.123	ND	<0.133	ND
Benzo[a]Pyrene	<0.115	<0.122	<0.145	<0.132	<0.152	<0.154	<0.120	<0.123	ND	<0.133	ND
Indeno[1,2,3-c,d]Pyrene	<0.0575	<0.0610	<0.0725	<0.0658	<0.0758	<0.0769	<0.0602	<0.0617	ND	<0.0667	ND
Dibenzo[a,h]Anthracene	<0.115	<0.122	<0.145	<0.132	<0.152	<0.154	<0.120	<0.123	ND	<0.133	ND
Benzo[g,h,i]Perylene	<0.115	<0.122	<0.145	<0.132	<0.152	<0.154	<0.120	<0.123	ND	<0.133	ND
COAL ASH	NA	NA	COAL ASH	NA	NA	NA	NA	NA		NA	

Underline italics equals one-half the laboratory detection limit
NA - Not Analyzed
ND - Not Detected

Table 8B
Soil Exposure Point Concentrations (EPCs) - PCBs
16 Blackmer Street
New Bedford, MA

SOUTH AREA

SAMPLE IDENTIFICATION SAMPLE DEPTH (FT) COLLECTION DATE	SS-04A 0-3 09/28/99	SS-04B 0-3 09/28/99	CGW1/S-3 0-2 03/07/00	EPC 0-2.5	SS-04A 0-3 09/28/99	SS-04B 0-3 09/28/99	CGW1/S-3 0-2 03/07/00	BH2 2.5-4 05/25/06	EPC 0-5 Average
POLYCHLORINATED BIPHENYLS (PCBs)									
Aroclor 1254	ND	1.7	ND	1.7	ND	1.7	ND	0.105	0.9

ND - Not Detected by lab method
Underline italics equals one half the laboratory detection limit
NA - Not Analyzed

Table 8C
Soil Exposure Point Concentrations (EPCs) - Lead
16 Blackmer Street
New Bedford, MA

SOUTH AREA
Surficial Soils (0-3)

Sample Identification Number	Sample Depth (ft)	Collection Date	Lead mg/kg
CSS-01	0-3	3/6/2000	260
CSS-2/CSS-500 (average)	0-3	3/6/2000	510
CSS-3	0-3	3/6/2000	2,500
CSS-4	0-3	3/6/2000	530
CSS-5	0-3	3/6/2000	310
SS-04A	0-3	9/28/99	3,640
		Subarea average	**1,292**
CGW-1/S-3	0-2	3/7/2000	490
BH2	0-2.5	5/28/2006	313
TP-8	0-3	5/9/2000	250
SS-04B	0-3	9/28/99	379
		Subarea average	**358**
TP-5/TP-X (average)	0-3	5/9/2000	160
TP-6	0-3	5/9/2000	930
Surficial Soils	**0-3**	**Overall Average**	**685**

Surficial and Subsurface Soils (0-6.5)

CSS-01	0-3	3/6/2000	260
CSS-1	3-6	3/6/2000	130
CSS-2/CSS-500 (average)	0-3	3/6/2000	510
CSS-2/CSS-500 (average)	3-6	3/6/2000	185
CSS-3	0-3	3/6/2000	2,500
CSS-3	3-6	3/6/2000	160
CSS-4	0-3	3/6/2000	530
CSS-4	3-6	3/6/2000	190
CSS-5	0-3	3/6/2000	310
CSS-5	3-6	3/6/2000	150
SS-04A	0-3	9/28/99	3,640
		Subarea average	**779**
CGW-1/S-3	0-2	3/7/2000	490
BH2	0-2.5	5/28/2006	313
BH2/Duplicate 2 (average)	2.5-4	5/28/2006	355
BH2	4-6.5	5/28/2006	5,780
TP-8	0-3	5/9/2000	250
SS-04B	0-3	9/28/99	379
		Subarea average	**1,261**
TP-5/TP-X (average)	0-3	5/9/2000	**160**
TP-6	0-3	5/9/2000	**930**
Surficial and Subsurface Soils	**0-6.5**	**Overall Average**	**782**

Upper Concentration Limit (Method 3) 3,000

Table 9

Calculation of Risk Estimates for Construction Worker - Incidental Ingestion of and Dermal Contact with Soil, and Inhalation of Airborne Particulates

South Area (0-3')

Construction Worker - Soil: Table CW-1
Exposure Point Concentration (EPC) and Risk
Based on Construction Worker 18-25 years of age

ShortForm Version 01-07
Vlookup Version v0207

ELCR (all chemicals) = 6E-07
HI (all chemicals) = 8E-01

****Do not insert or delete any rows****
Click on empty cell below and select OHM using arrow.

Oil or Hazardous Material (OHM)	EPC (mg/kg)	ELCR ingestion	ELCR dermal	ELCR inhalation GI	ELCR inhalation pulmonary	$ELCR_{total}$	Subchronic HQ_{ing}	Subchronic HQ_{derm}	Subchronic HQ_{inh-GI}	Subchronic HQ_{inh}	HQ_{total}
Aliphatics C9 to C18	3.2E+00						3.9E-06	2.0E-05	1.0E-07	2.0E-07	2.4E-05
Aliphatics C19 to C36	3.2E+01						6.6E-06	6.6E-06	1.7E-07		1.3E-05
Aromatics C11 to C22	1.5E+02						2.1E-04	6.0E-04	5.6E-06	1.1E-05	8.3E-04
Naphthalene	5.7E-01						1.3E-06	3.5E-06	3.3E-08	7.1E-06	1.2E-05
Methylnaphthalene, 2-	1.9E+00						2.1E-05	5.9E-05	5.5E-07	1.4E-07	8.1E-05
Acenaphthene	1.2E+00						8.9E-07	2.5E-06	2.3E-08	8.9E-08	3.5E-06
Phenanthrene	1.4E+01						2.1E-05	5.8E-05	5.4E-07	1.0E-06	8.0E-05
Acenaphthylene	1.0E+00						1.5E-06	4.1E-06	3.8E-08	7.4E-08	5.7E-06
Fluorene	1.7E+00						1.9E-06	5.3E-06	4.9E-08	1.3E-07	7.3E-06
Anthracene	4.0E+00						5.9E-07	1.7E-06	1.5E-08	3.0E-07	2.6E-06
Fluoranthene	1.7E+01						1.9E-05	5.3E-05	4.9E-07	1.3E-06	7.3E-05
Pyrene	1.7E+01						2.5E-05	7.0E-05	6.5E-07	1.3E-06	9.7E-05
Benzo(a)anthracene	8.2E+00	1.5E-08	1.1E-08	3.8E-10	4.5E-10	2.6E-08	9.4E-06	6.8E-06	2.4E-07	6.1E-07	1.7E-05
Chrysene	8.2E+00	1.5E-09	1.1E-09	3.8E-11	4.5E-11	2.6E-09	9.4E-06	6.8E-06	2.4E-07	6.1E-07	1.7E-05
Benzo(b)fluoranthene	7.8E+00	1.4E-08	1.0E-08	3.6E-10	4.3E-10	2.5E-08	9.0E-06	6.5E-06	2.3E-07	5.8E-07	1.6E-05
Benzo(k)fluoranthene	5.7E+00	1.0E-09	7.4E-10	2.6E-11	3.2E-11	1.8E-09	6.6E-06	4.7E-06	1.7E-07	4.2E-07	1.2E-05
Benzo(a)pyrene	7.8E+00	1.4E-07	1.0E-07	3.6E-09	4.3E-09	2.5E-07	9.0E-06	6.5E-06	2.3E-07	5.8E-07	1.6E-05
Indeno(1,2,3-cd)pyrene	6.2E+00	1.1E-08	8.0E-09	2.9E-10	3.4E-10	2.0E-08	7.1E-06	5.1E-06	1.8E-07	4.6E-07	1.3E-05
Dibenzo(a,h)anthracene	5.0E+00	9.0E-08	6.5E-08	2.3E-09	2.8E-09	1.6E-07	5.7E-06	4.1E-06	1.5E-07	3.7E-07	1.0E-05
Benzo(g,h,i)perylene	5.3E+00						7.8E-06	2.2E-05	2.0E-07	3.9E-07	3.0E-05
Polychlorinated biphenyls (PCBs)	1.7E+00	2.5E-08	4.8E-08	6.6E-10	4.5E-11	7.4E-08	3.6E-02	6.7E-02	9.2E-04	3.2E-03	1.1E-01
Lead	6.9E+02						5.6E-01	6.8E-02	1.5E-02	2.6E-02	6.7E-01

Table 9 (cont'd.)
Calculation of Risk Estimates for Construction Worker - Incidental Ingestion of and Dermal Contact with Soil, and Inhalation of Airborne Particulates
South Area Subsurface (0-6.5')

Construction Worker - Soil: Table CW-1
Exposure Point Concentration (EPC) and Risk
Based on Construction Worker 18-25 years of age

ShortForm Version 01-07
Vlookup Version v0207

ELCR (all chemicals) = 4E-07
HI (all chemicals) = 8E-01

****Do not insert or delete any rows****
Click on empty cell below and select OHM using arrow.

Oil or Hazardous Material (OHM)	EPC (mg/kg)	ELCR ingestion	ELCR dermal	ELCR inhalation GI	ELCR inhalation pulmonary	$ELCR_{total}$	Subchronic HQ_{ing}	Subchronic HQ_{derm}	Subchronic HQ_{inh-GI}	Subchronic HQ_{inh}	HQ_{total}
Aliphatics C9 to C18	5.2E+00						6.4E-06	3.2E-05	1.7E-07	3.2E-07	3.9E-05
Aliphatics C19 to C36	2.8E+01						5.7E-06	5.8E-06	1.5E-07		1.2E-05
Aromatics C11 to C22	1.6E+02						2.4E-04	6.7E-04	6.2E-06	1.2E-05	9.3E-04
Naphthalene	6.0E-01						1.3E-06	3.7E-06	3.4E-08	7.4E-06	1.3E-05
Methylnaphthalene, 2-	1.1E+00						1.2E-05	3.4E-05	3.2E-07	8.2E-08	4.7E-05
Acenaphthene	1.0E+00						7.4E-07	2.1E-06	1.9E-08	7.4E-08	2.9E-06
Phenanthrene	1.4E+01						2.1E-05	5.8E-05	5.4E-07	1.0E-06	8.0E-05
Acenaphthylene	6.0E-01						8.9E-07	2.5E-06	2.3E-08	4.5E-08	3.4E-06
Fluorene	1.6E+00						1.8E-06	5.0E-06	4.6E-08	1.2E-07	6.9E-06
Anthracene	3.7E+00						5.5E-07	1.5E-06	1.4E-08	2.8E-07	2.4E-06
Fluoranthene	1.8E+01						2.0E-05	5.6E-05	5.2E-07	1.3E-06	7.8E-05
Pyrene	1.7E+01						2.5E-05	7.0E-05	6.5E-07	1.3E-06	9.7E-05
Benzo(a)anthracene	8.2E+00	1.5E-08	1.1E-08	3.8E-10	4.5E-10	2.6E-08	9.4E-06	6.8E-06	2.4E-07	6.1E-07	1.7E-05
Chrysene	7.9E+00	1.4E-09	1.0E-09	3.7E-11	4.4E-11	2.5E-09	9.1E-06	6.5E-06	2.4E-07	5.9E-07	1.6E-05
Benzo(b)fluoranthene	6.7E+00	1.2E-08	8.6E-09	3.1E-10	3.7E-10	2.1E-08	7.7E-06	5.5E-06	2.0E-07	5.0E-07	1.4E-05
Benzo(k)fluoranthene	3.9E+00	7.0E-10	5.0E-10	1.8E-11	2.2E-11	1.2E-09	4.5E-06	3.2E-06	1.2E-07	2.9E-07	8.1E-06
Benzo(a)pyrene	6.2E+00	1.1E-07	8.0E-08	2.9E-09	3.4E-09	2.0E-07	7.1E-06	5.1E-06	1.8E-07	4.6E-07	1.3E-05
Indeno(1,2,3-cd)pyrene	4.9E+00	8.8E-09	6.3E-09	2.3E-10	2.7E-10	1.6E-08	5.6E-06	4.1E-06	1.5E-07	3.6E-07	1.0E-05
Dibenzo(a,h)anthracene	4.2E+00	7.5E-08	5.4E-08	2.0E-09	2.3E-09	1.3E-07	4.8E-06	3.5E-06	1.3E-07	3.1E-07	8.7E-06
Benzo(g,h,i)perylene	4.0E+00						5.9E-06	1.7E-05	1.5E-07	3.0E-07	2.3E-05
Polychlorinated biphenyls (PCBs)	9.0E-01	1.3E-08	2.5E-08	3.5E-10	2.4E-11	3.9E-08	1.9E-02	3.6E-02	4.9E-04	1.7E-03	5.7E-02
Lead	7.8E+02						6.4E-01	7.8E-02	1.7E-02	2.9E-02	7.7E-01

Table 9

Calculation of Risk Estimates for Construction Worker - Incidental Ingestion of and Dermal Contact with Soil, and Inhalation of Airborne Particulates

North Area (0-3')

Construction Worker - Soil: Table CW-1
Exposure Point Concentration (EPC) and Risk
Based on Construction Worker 18-25 years of age

ShortForm Version 01-07
Vlookup Version v0207

ELCR (all chemicals) = 5E-08
HI (all chemicals) = 3E-03

****Do not insert or delete any rows****
Click on empty cell below and select OHM using arrow.

Oil or Hazardous Material (OHM)	EPC (mg/kg)	ELCR ingestion	ELCR dermal	ELCR inhalation GI	ELCR inhalation pulmonary	$ELCR_{total}$	Subchronic HQ_{ing}	Subchronic HQ_{derm}	Subchronic HQ_{inh-GI}	Subchronic HQ_{inh}	HQ_{total}
Aliphatics C19 to C36	1.9E+01						3.8E-06	3.8E-06	9.9E-08		7.8E-06
Aromatics C11 to C22	4.2E+02						6.2E-04	1.7E-03	1.6E-05	3.1E-05	2.4E-03
Naphthalene	1.0E-01						2.2E-07	6.2E-07	5.7E-09	1.2E-06	2.1E-06
Methylnaphthalene, 2-	3.0E-02						3.3E-07	9.3E-07	8.6E-09	2.2E-09	1.3E-06
Acenaphthene	3.3E-01						2.4E-07	6.8E-07	6.3E-09	2.5E-08	9.6E-07
Phenanthrene	2.0E+01						2.9E-05	8.1E-05	7.5E-07	1.5E-06	1.1E-04
Acenaphthylene	8.4E-01						1.2E-06	3.5E-06	3.2E-08	6.3E-08	4.8E-06
Fluorene	1.0E+00						1.2E-06	3.2E-06	3.0E-08	7.7E-08	4.5E-06
Anthracene	3.8E+00						5.6E-07	1.6E-06	1.5E-08	2.8E-07	2.4E-06
Fluoranthene	3.1E+01						3.5E-05	9.7E-05	9.0E-07	2.3E-06	1.3E-04
Pyrene	2.8E+01						4.2E-05	1.2E-04	1.1E-06	2.1E-06	1.6E-04
Benzo(a)anthracene	1.4E+01	2.4E-08	1.8E-08	6.3E-10	7.5E-10	4.3E-08	1.6E-05	1.1E-05	4.1E-07	1.0E-06	2.8E-05
Chrysene	1.3E+01	2.3E-09	1.6E-09	5.9E-11	7.0E-11	4.0E-09	1.5E-05	1.0E-05	3.8E-07	9.4E-07	2.6E-05
Benzo(b)fluoranthene	ND										
Benzo(k)fluoranthene	ND										
Benzo(a)pyrene	ND										
Indeno(1,2,3-cd)pyrene	ND										
Dibenzo(a,h)anthracene	ND										
Benzo(g,h,i)perylene	ND										

Table 9 (cont'd.)
Calculation of Risk Estimates for Construction Worker - Incidental Ingestion of and Dermal Contact with Soil, and Inhalation of Airborne Particulates
North Area Subsurface (0-6')

Construction Worker - Soil: Table CW-1
Exposure Point Concentration (EPC) and Risk
Based on Construction Worker 18-25 years of age

ShortForm Version 01-07
Vlookup Version v0207

ELCR (all chemicals) = 3E-08
HI (all chemicals) = 2E-03

****Do not insert or delete any rows****
Click on empty cell below and select OHM using arrow.

Oil or Hazardous Material (OHM)	EPC (mg/kg)	ELCR ingestion	ELCR dermal	ELCR inhalation GI	ELCR inhalation pulmonary	$ELCR_{total}$	Subchronic HQ_{ing}	Subchronic HQ_{derm}	Subchronic HQ_{inh-GI}	Subchronic HQ_{inh}	HQ_{total}
Aliphatics C19 to C36	3.0E+01						6.1E-06	6.1E-06	1.6E-07		1.2E-05
Aromatics C11 to C22	2.5E+02						3.7E-04	1.0E-03	9.7E-06	1.9E-05	1.4E-03
Naphthalene	1.0E-01						2.2E-07	6.2E-07	5.7E-09	1.2E-06	2.1E-06
Methylnaphthalene, 2-	ND										
Acenaphthene	2.5E-01						1.8E-07	5.2E-07	4.8E-09	1.9E-08	7.2E-07
Phenanthrene	1.1E+01						1.6E-05	4.5E-05	4.1E-07	8.0E-07	6.2E-05
Acenaphthylene	5.0E-01						7.4E-07	2.1E-06	1.9E-08	3.7E-08	2.9E-06
Fluorene	5.9E-01						6.5E-07	1.8E-06	1.7E-08	4.4E-08	2.5E-06
Anthracene	2.1E+00						3.1E-07	8.7E-07	8.1E-09	1.6E-07	1.3E-06
Fluoranthene	1.8E+01						1.9E-05	5.4E-05	5.0E-07	1.3E-06	7.6E-05
Pyrene	1.6E+01						2.3E-05	6.5E-05	6.1E-07	1.2E-06	9.1E-05
Benzo(a)anthracene	7.6E+00	1.4E-08	9.8E-09	3.5E-10	4.2E-10	2.4E-08	8.7E-06	6.3E-06	2.3E-07	5.7E-07	1.6E-05
Chrysene	7.2E+00	1.3E-09	9.3E-10	3.3E-11	4.0E-11	2.3E-09	8.3E-06	5.9E-06	2.1E-07	5.3E-07	1.5E-05
Benzo(b)fluoranthene	ND										
Benzo(k)fluoranthene	ND										
Benzo(a)pyrene	ND										
Indeno(1,2,3-cd)pyrene	ND										
Dibenzo(a,h)anthracene	ND										
Benzo(g,h,i)perylene	ND										

Table 10
Calculation of Risk Estimates for Resident - Incidental Ingestion of and Dermal Contact with Soil, and Ingestion of Homegrown Produce
South Area (0-3')

Resident - Soil: Table RS-1
Exposure Point Concentration (EPC)
Based on Resident Ages 1-31 (Cancer), 1-8 (Chronic Noncancer), and 1-2 (Subchronic Noncancer)

ShortForm Version 4-06
Vlookup Version v0406

ELCR (all chemicals) = 2E-05
Chronic HI (all chemicals) = 5E+01
Subchronic HI (all chemicals) = 7E+01

****Do not insert or delete any rows****
Click on empty cell below and select OHM using arrow.

Oil or Hazardous Material	EPC (mg/kg)	$ELCR_{ingestion}$	$ELCR_{dermal}$	$ELCR_{vegetable}$	$ELCR_{total}$	Chronic HQ_{ing}	Chronic HQ_{derm}	Chronic $HQ_{vegetable}$	HQ_{total}	Subchronic HQ_{ing}	Subchronic HQ_{derm}	Subchronic $HQ_{vegetable}$	HQ_{total}
Aliphatics C9 to C18	3.2E+00					7.8E-05	3.3E-04		4.1E-04	2.1E-05	6.2E-05		8.4E-05
Aliphatics C19 to C36	3.2E+01					3.9E-05	3.3E-05		7.2E-05	3.6E-05	2.1E-05		5.6E-05
Aromatics C11 to C22	1.5E+02					4.2E-03	1.0E-02		1.4E-02	1.2E-03	1.9E-03		3.0E-03
Naphthalene	5.7E-01					2.5E-05	5.9E-05		8.4E-05	6.8E-06	1.1E-05		1.8E-05
Methylnaphthalene, 2-	1.9E+00					4.1E-04	9.8E-04		1.4E-03	1.1E-04	1.9E-04		3.0E-04
Acenaphthene	1.2E+00					1.7E-05	4.1E-05		5.9E-05	4.8E-06	7.8E-06		1.3E-05
Phenanthrene	1.4E+01					4.1E-04	9.6E-04		1.4E-03	1.1E-04	1.8E-04		2.9E-04
Acenaphthylene	1.0E+00					2.9E-05	6.9E-05		9.8E-05	8.0E-06	1.3E-05		2.1E-05
Fluorene	1.7E+00					3.7E-05	8.8E-05		1.2E-04	1.0E-05	1.7E-05		2.7E-05
Anthracene	4.0E+00					1.2E-05	2.7E-05		3.9E-05	3.2E-06	5.2E-06		8.4E-06
Fluoranthene	1.7E+01					3.7E-04	8.8E-04		1.2E-03	1.0E-04	1.7E-04		2.7E-04
Pyrene	1.7E+01					4.9E-04	1.2E-03		1.7E-03	1.4E-04	2.2E-04		3.6E-04
Benzo(a)anthracene	8.2E+00	6.3E-07	4.6E-07		1.1E-06	1.9E-04	1.1E-04		3.0E-04	5.1E-05	2.1E-05		7.2E-05
Chrysene	8.2E+00	6.3E-08	4.6E-08		1.1E-07	1.9E-04	1.1E-04		3.0E-04	5.1E-05	2.1E-05		7.2E-05
Benzo(b)fluoranthene	7.8E+00	6.0E-07	4.4E-07		1.0E-06	1.8E-04	1.1E-04		2.8E-04	4.9E-05	2.0E-05		6.9E-05
Benzo(k)fluoranthene	5.7E+00	4.4E-08	3.2E-08		7.6E-08	1.3E-04	7.8E-05		2.1E-04	3.5E-05	1.5E-05		5.0E-05
Benzo(a)pyrene	7.8E+00	6.0E-06	4.4E-06		1.0E-05	1.8E-04	1.1E-04		2.8E-04	4.9E-05	2.0E-05		6.9E-05
Indeno(1,2,3-cd)pyrene	6.2E+00	4.7E-07	3.5E-07		8.3E-07	1.4E-04	8.5E-05		2.3E-04	3.9E-05	1.6E-05		5.5E-05
Dibenzo(a,h)anthracene	5.0E+00	3.8E-06	2.8E-06		6.7E-06	1.1E-04	6.9E-05		1.8E-04	3.1E-05	1.3E-05		4.4E-05
Benzo(g,h,i)perylene	5.3E+00					1.5E-04	3.6E-04		5.2E-04	4.2E-05	6.9E-05		1.1E-04
Polychlorinated biphenyls (PCBs)	1.7E+00	1.1E-06	2.1E-06		3.2E-06	1.8E-01	2.8E-01		4.6E-01	1.9E-01	2.1E-01		4.1E-01
Lead	6.9E+02					1.1E+00	1.1E-01	4.9E+01	5.0E+01	3.0E+00	2.1E-01	7.0E+01	7.3E+01

Table 10 (cont'd.)
Calculation of Risk Estimates for Residents - Incidental Ingestion of and Dermal Contact with Soil
South Area Subsurface (0-6.5')

Resident - Soil: Table RS-1
Exposure Point Concentration (EPC)
Based on Resident Ages 1-31 (Cancer), 1-8 (Chronic Noncancer), and 1-2 (Subchronic Noncancer)

ShortForm Version 4-06
Vlookup Version v0406

ELCR (all chemicals) = 3E-04
Chronic HI (all chemicals) = 8E+01
Subchronic HI (all chemicals) = 1E+02

****Do not insert or delete any rows****
Click on empty cell below and select OHM using arrow.

Oil or Hazardous Material	EPC (mg/kg)	$ELCR_{ingestion}$	$ELCR_{dermal}$	$ELCR_{vegetable}$	$ELCR_{total}$	Chronic HQ_{ing}	Chronic HQ_{derm}	Chronic $HQ_{vegetable}$	HQ_{total}	Subchronic HQ_{ing}	Subchronic HQ_{derm}	Subchronic $HQ_{vegetable}$	HQ_{total}
Aliphatics C9 to C18	5.2E+00					1.3E-04	5.4E-04		6.6E-04	3.5E-05	1.0E-04		1.4E-04
Aliphatics C19 to C36	2.8E+01					3.4E-05	2.9E-05		6.3E-05	3.1E-05	1.8E-05		4.9E-05
Aromatics C11 to C22	1.6E+02					4.7E-03	1.1E-02		1.6E-02	1.3E-03	2.1E-03		3.4E-03
Naphthalene	6.0E-01					2.6E-05	6.2E-05		8.8E-05	7.2E-06	1.2E-05		1.9E-05
Methylnaphthalene, 2-	1.1E+00					2.4E-04	5.7E-04		8.1E-04	6.6E-05	1.1E-04		1.7E-04
Acenaphthene	1.0E+00					1.5E-05	3.4E-05		4.9E-05	4.0E-06	6.5E-06		1.1E-05
Phenanthrene	1.4E+01					4.1E-04	9.6E-04		1.4E-03	1.1E-04	1.8E-04		2.9E-04
Acenaphthylene	6.0E-01					1.7E-05	4.1E-05		5.9E-05	4.8E-06	7.8E-06		1.3E-05
Fluorene	1.6E+00					3.5E-05	8.2E-05		1.2E-04	9.6E-06	1.6E-05		2.5E-05
Anthracene	3.7E+00					1.1E-05	2.5E-05		3.6E-05	3.0E-06	4.8E-06		7.8E-06
Fluoranthene	1.8E+01					3.9E-04	9.3E-04		1.3E-03	1.1E-04	1.8E-04		2.8E-04
Pyrene	1.7E+01					4.9E-04	1.2E-03		1.7E-03	1.4E-04	2.2E-04		3.6E-04
Benzo(a)anthracene	8.2E+00	6.3E-07	4.6E-07		1.1E-06	1.9E-04	1.1E-04		3.0E-04	5.1E-05	2.1E-05		7.2E-05
Chrysene	7.9E+00	6.0E-08	4.5E-08		1.1E-07	1.8E-04	1.1E-04		2.9E-04	4.9E-05	2.1E-05		7.0E-05
Benzo(b)fluoranthene	6.7E+00	5.1E-07	3.8E-07		8.9E-07	1.5E-04	9.2E-05		2.4E-04	4.2E-05	1.7E-05		5.9E-05
Benzo(k)fluoranthene	3.9E+00	3.0E-08	2.2E-08		5.2E-08	8.8E-05	5.4E-05		1.4E-04	2.4E-05	1.0E-05		3.4E-05
Benzo(a)pyrene	6.2E+00	4.7E-06	3.5E-06		8.3E-06	1.4E-04	8.5E-05		2.3E-04	3.9E-05	1.6E-05		5.5E-05
Indeno(1,2,3-cd)pyrene	4.9E+00	3.7E-07	2.8E-07		6.5E-07	1.1E-04	6.7E-05		1.8E-04	3.1E-05	1.3E-05		4.3E-05
Dibenzo(a,h)anthracene	4.2E+00	3.2E-06	2.4E-06		5.6E-06	9.5E-05	5.8E-05		1.5E-04	2.6E-05	1.1E-05		3.7E-05
Benzo(g,h,i)perylene	4.0E+00					1.2E-04	2.7E-04		3.9E-04	3.2E-05	5.2E-05		8.4E-05
Polychlorinated biphenyls (PCBs)	9.0E-01	5.7E-07	1.1E-06	3.2E-04	3.2E-04	9.3E-02	1.5E-01	2.7E+01	2.7E+01	1.0E-01	1.1E-01	1.5E+01	1.6E+01
Lead	7.8E+02					1.3E+00	1.3E-01	5.6E+01	5.7E+01	3.5E+00	2.4E-01	8.0E+01	8.3E+01

Table 10 (cont'd.)
Calculation of Risk Estimates for Resident - Incidental Ingestion of and Dermal Contact with Soil, and Ingestion of Homegrown Produce
North Area (0-3')

Resident - Soil: Table RS-1
Exposure Point Concentration (EPC)
Based on Resident Ages 1-31 (Cancer), 1-8 (Chronic Noncancer), and 1-2 (Subchronic Noncancer)

ShortForm Version 4-06
Vlookup Version v0406

ELCR (all chemicals) = 2E-06
Chronic HI (all chemicals) = 5E-02
Subchronic HI (all chemicals) = 1E-02

****Do not insert or delete any rows****
Click on empty cell below and select OHM using arrow.

Oil or Hazardous Material	EPC (mg/kg)	$ELCR_{ingestion}$	$ELCR_{dermal}$	$ELCR_{vegetable}$	$ELCR_{total}$	Chronic HQ_{ing}	Chronic HQ_{derm}	Chronic $HQ_{vegetable}$	HQ_{total}	Subchronic HQ_{ing}	Subchronic HQ_{derm}	Subchronic $HQ_{vegetable}$	HQ_{total}
Aliphatics C9 to C18	ND												
Aliphatics C19 to C36	1.9E+01					2.3E-05	1.9E-05		4.2E-05	2.1E-05	1.2E-05		3.3E-05
Aromatics C11 to C22	4.2E+02					1.2E-02	2.9E-02		4.1E-02	3.4E-03	5.4E-03		8.8E-03
Naphthalene	1.0E-01					4.4E-06	1.0E-05		1.5E-05	1.2E-06	2.0E-06		3.2E-06
Methylnaphthalene, 2-	3.0E-02					6.5E-06	1.5E-05		2.2E-05	1.8E-06	2.9E-06		4.7E-06
Acenaphthene	3.3E-01					4.8E-06	1.1E-05		1.6E-05	1.3E-06	2.1E-06		3.5E-06
Phenanthrene	2.0E+01					5.7E-04	1.3E-03		1.9E-03	1.6E-04	2.5E-04		4.1E-04
Acenaphthylene	8.4E-01					2.4E-05	5.8E-05		8.2E-05	6.7E-06	1.1E-05		1.8E-05
Fluorene	1.0E+00					2.3E-05	5.4E-05		7.6E-05	6.2E-06	1.0E-05		1.6E-05
Anthracene	3.8E+00					1.1E-05	2.6E-05		3.7E-05	3.0E-06	4.9E-06		8.0E-06
Fluoranthene	3.1E+01					6.8E-04	1.6E-03		2.3E-03	1.9E-04	3.1E-04		4.9E-04
Pyrene	2.8E+01					8.2E-04	1.9E-03		2.8E-03	2.3E-04	3.7E-04		6.0E-04
Benzo(a)anthracene	1.4E+01	1.0E-06	7.7E-07		1.8E-06	3.1E-04	1.9E-04		5.0E-04	8.5E-05	3.5E-05		1.2E-04
Chrysene	1.3E+01	9.7E-08	7.2E-08		1.7E-07	2.9E-04	1.7E-04		4.6E-04	7.9E-05	3.3E-05		1.1E-04
Benzo(b)fluoranthene	ND												
Benzo(k)fluoranthene	ND												
Benzo(a)pyrene	ND												
Indeno(1,2,3-cd)pyrene	ND												
Dibenzo(a,h)anthracene	ND												
Benzo(g,h,i)perylene	ND												

Table 10 (cont'd.)
Calculation of Risk Estimates for Resident - Incidental Ingestion of and Dermal Contact with Soil, and Ingestion of Homegrown Produce
North Area Subsurface (0-6')

Resident - Soil: Table RS-1
Exposure Point Concentration (EPC)
Based on Resident Ages 1-31 (Cancer), 1-8 (Chronic Noncancer), and 1-2 (Subchronic Noncancer)

ShortForm Version 4-06
Vlookup Version v0406

ELCR (all chemicals) = 1E-06
Chronic HI (all chemicals) = 3E-02
Subchronic HI (all chemicals) = 6E-03

****Do not insert or delete any rows****
Click on empty cell below and select OHM using arrow.

Oil or Hazardous Material	EPC (mg/kg)	$ELCR_{ingestion}$	$ELCR_{dermal}$	$ELCR_{vegetable}$	$ELCR_{total}$	Chronic HQ_{ing}	Chronic HQ_{derm}	Chronic $HQ_{vegetable}$	HQ_{total}	Subchronic HQ_{ing}	Subchronic HQ_{derm}	Subchronic $HQ_{vegetable}$	HQ_{total}
Aliphatics C9 to C18	ND												
Aliphatics C19 to C36	3.0E+01					3.6E-05	3.1E-05		6.6E-05	3.3E-05	1.9E-05		5.2E-05
Aromatics C11 to C22	2.5E+02					7.3E-03	1.7E-02		2.5E-02	2.0E-03	3.3E-03		5.3E-03
Naphthalene	1.0E-01					4.4E-06	1.0E-05		1.5E-05	1.2E-06	2.0E-06		3.2E-06
Methylnaphthalene, 2-	ND												
Acenaphthene	2.5E-01					3.6E-06	8.6E-06		1.2E-05	1.0E-06	1.6E-06		2.6E-06
Phenanthrene	1.1E+01					3.1E-04	7.4E-04		1.1E-03	8.6E-05	1.4E-04		2.3E-04
Acenaphthylene	5.0E-01					1.5E-05	3.4E-05		4.9E-05	4.0E-06	6.5E-06		1.1E-05
Fluorene	5.9E-01					1.3E-05	3.0E-05		4.3E-05	3.5E-06	5.8E-06		9.3E-06
Anthracene	2.1E+00					6.1E-06	1.5E-05		2.1E-05	1.7E-06	2.7E-06		4.4E-06
Fluoranthene	1.8E+01					3.8E-04	9.0E-04		1.3E-03	1.1E-04	1.7E-04		2.8E-04
Pyrene	1.6E+01					4.6E-04	1.1E-03		1.5E-03	1.3E-04	2.1E-04		3.3E-04
Benzo(a)anthracene	7.6E+00	5.8E-07	4.3E-07		1.0E-06	1.7E-04	1.0E-04		2.8E-04	4.7E-05	2.0E-05		6.7E-05
Chrysene	7.2E+00	5.5E-08	4.1E-08		9.6E-08	1.6E-04	9.9E-05		2.6E-04	4.5E-05	1.9E-05		6.3E-05
Benzo(b)fluoranthene	ND												
Benzo(k)fluoranthene	ND												
Benzo(a)pyrene	ND												
Indeno(1,2,3-cd)pyrene	ND												
Dibenzo(a,h)anthracene	ND												
Benzo(g,h,i)perylene	ND												

Table 11
Calculation of Risk Estimates for Trespasser - Incidental Ingestion of and Dermal Contact with Soil
South Area (0-3')

Trespasser - Soil: Table TS-1
Exposure Point Concentration (EPC)
Based on Trespasser Ages 11-18 (Cancer and Non-Cancer)

ShortForm Version 6-06

Vlookup Version v0207

ELCR (all chemicals) = 9E-07
Chronic HI (all chemicals) = 1E-01
Subchronic HI (all chemicals) = 2E-01

****Do not insert or delete any rows****
Click on empty cell below and select OHM using arrow.

Oil or Hazardous Material	EPC (mg/kg)	$ELCR_{ingestion}$	$ELCR_{dermal}$	$ELCR_{total}$	Chronic HQ_{ing}	Chronic HQ_{derm}	Chronic HQ_{total}	Subchronic HQ_{ing}	Subchronic HQ_{derm}	Subchronic HQ_{total}
Aliphatics C9 to C18	3.2E+00				5.2E-06	2.1E-05	2.7E-05	1.1E-06	3.9E-06	5.1E-06
Aliphatics C19 to C36	3.2E+01				2.6E-06	2.1E-06	4.7E-06	1.9E-06	1.3E-06	3.2E-06
Aromatics C11 to C22	1.5E+02				2.8E-04	6.4E-04	9.3E-04	6.2E-05	1.2E-04	1.8E-04
Naphthalene	5.7E-01				1.7E-06	3.8E-06	5.5E-06	3.6E-07	7.0E-07	1.1E-06
Methylnaphthalene, 2-	1.9E+00				2.8E-05	6.3E-05	9.1E-05	6.1E-06	1.2E-05	1.8E-05
Acenaphthene	1.2E+00				1.2E-06	2.7E-06	3.8E-06	2.6E-07	4.9E-07	7.5E-07
Phenanthrene	1.4E+01				2.7E-05	6.2E-05	8.9E-05	6.0E-06	1.1E-05	1.7E-05
Acenaphthylene	1.0E+00				1.9E-06	4.4E-06	6.4E-06	4.3E-07	8.2E-07	1.2E-06
Fluorene	1.7E+00				2.5E-06	5.7E-06	8.1E-06	5.4E-07	1.0E-06	1.6E-06
Anthracene	4.0E+00				7.8E-07	1.8E-06	2.6E-06	1.7E-07	3.3E-07	5.0E-07
Fluoranthene	1.7E+01				2.5E-05	5.7E-05	8.1E-05	5.4E-06	1.0E-05	1.6E-05
Pyrene	1.7E+01				3.3E-05	7.6E-05	1.1E-04	7.2E-06	1.4E-05	2.1E-05
Benzo(a)anthracene	8.2E+00	2.7E-08	1.6E-08	4.3E-08	1.2E-05	7.3E-06	2.0E-05	2.7E-06	1.3E-06	4.1E-06
Chrysene	8.2E+00	2.7E-09	1.6E-09	4.3E-09	1.2E-05	7.3E-06	2.0E-05	2.7E-06	1.3E-06	4.1E-06
Benzo(b)fluoranthene	7.8E+00	2.6E-08	1.5E-08	4.1E-08	1.2E-05	6.9E-06	1.9E-05	2.6E-06	1.3E-06	3.9E-06
Benzo(k)fluoranthene	5.7E+00	1.9E-09	1.1E-09	3.0E-09	8.6E-06	5.1E-06	1.4E-05	1.9E-06	9.3E-07	2.8E-06
Benzo(a)pyrene	7.8E+00	2.6E-07	1.5E-07	4.1E-07	1.2E-05	6.9E-06	1.9E-05	2.6E-06	1.3E-06	3.9E-06
Indeno(1,2,3-cd)pyrene	6.2E+00	2.1E-08	1.2E-08	3.3E-08	9.4E-06	5.5E-06	1.5E-05	2.1E-06	1.0E-06	3.1E-06
Dibenzo(a,h)anthracene	5.0E+00	1.7E-07	9.7E-08	2.6E-07	7.6E-06	4.4E-06	1.2E-05	1.7E-06	8.2E-07	2.5E-06
Benzo(g,h,i)perylene	5.3E+00				1.0E-05	2.4E-05	3.4E-05	2.3E-06	4.3E-06	6.6E-06
Polychlorinated biphenyls (PCBs)	1.7E+00	4.7E-08	7.3E-08	1.2E-07	1.2E-02	1.8E-02	3.0E-02	1.0E-02	1.3E-02	2.4E-02
Lead	6.9E+02				7.4E-02	7.3E-03	8.1E-02	1.6E-01	1.3E-02	1.8E-01

Table 11 (cont'd.)
Calculation of Risk Estimates for Trespasser - Incidental Ingestion of and Dermal Contact with Soil
South Area Subsurface (0-6.5')

Trespasser - Soil: Table TS-1
Exposure Point Concentration (EPC)
Based on Trespasser Ages 11-18 (Cancer and Non-Cancer)

ShortForm Version 6-06

Vlookup Version v0207

ELCR (all chemicals) = 7E-07
Chronic HI (all chemicals) = 1E-01
Subchronic HI (all chemicals) = 2E-01

****Do not insert or delete any rows****
Click on empty cell below and select OHM using arrow.

Oil or Hazardous Material	EPC (mg/kg)	$ELCR_{ingestion}$		$ELCR_{total}$	Chronic HQ_{ing}	Chronic HQ_{derm}	Chronic HQ_{total}	Subchronic HQ_{ing}	Subchronic HQ_{derm}	Subchronic HQ_{total}
Aliphatics C9 to C18	5.2E+00				8.4E-06	3.5E-05	4.3E-05	1.8E-06	6.4E-06	8.2E-06
Aliphatics C19 to C36	2.8E+01				2.3E-06	1.9E-06	4.1E-06	1.7E-06	1.1E-06	2.8E-06
Aromatics C11 to C22	1.6E+02				3.1E-04	7.2E-04	1.0E-03	6.9E-05	1.3E-04	2.0E-04
Naphthalene	6.0E-01				1.7E-06	4.0E-06	5.8E-06	3.8E-07	7.4E-07	1.1E-06
Methylnaphthalene, 2-	1.1E+00				1.6E-05	3.7E-05	5.3E-05	3.5E-06	6.8E-06	1.0E-05
Acenaphthene	1.0E+00				9.7E-07	2.2E-06	3.2E-06	2.1E-07	4.1E-07	6.2E-07
Phenanthrene	1.4E+01				2.7E-05	6.2E-05	8.9E-05	6.0E-06	1.1E-05	1.7E-05
Acenaphthylene	6.0E-01				1.2E-06	2.7E-06	3.8E-06	2.6E-07	4.9E-07	7.5E-07
Fluorene	1.6E+00				2.3E-06	5.3E-06	7.7E-06	5.1E-07	9.8E-07	1.5E-06
Anthracene	3.7E+00				7.2E-07	1.6E-06	2.4E-06	1.6E-07	3.0E-07	4.6E-07
Fluoranthene	1.8E+01				2.6E-05	6.0E-05	8.6E-05	5.7E-06	1.1E-05	1.7E-05
Pyrene	1.7E+01				3.3E-05	7.6E-05	1.1E-04	7.2E-06	1.4E-05	2.1E-05
Benzo(a)anthracene	8.2E+00	2.7E-08	1.6E-08	4.3E-08	1.2E-05	7.3E-06	2.0E-05	2.7E-06	1.3E-06	4.1E-06
Chrysene	7.9E+00	2.6E-09	1.5E-09	4.2E-09	1.2E-05	7.0E-06	1.9E-05	2.6E-06	1.3E-06	3.9E-06
Benzo(b)fluoranthene	6.7E+00	2.2E-08	1.3E-08	3.5E-08	1.0E-05	6.0E-06	1.6E-05	2.2E-06	1.1E-06	3.3E-06
Benzo(k)fluoranthene	3.9E+00	1.3E-09	7.6E-10	2.1E-09	5.9E-06	3.5E-06	9.4E-06	1.3E-06	6.4E-07	1.9E-06
Benzo(a)pyrene	6.2E+00	2.1E-07	1.2E-07	3.3E-07	9.4E-06	5.5E-06	1.5E-05	2.1E-06	1.0E-06	3.1E-06
Indeno(1,2,3-cd)pyrene	4.9E+00	1.6E-08	9.5E-09	2.6E-08	7.4E-06	4.4E-06	1.2E-05	1.6E-06	8.0E-07	2.4E-06
Dibenzo(a,h)anthracene	4.2E+00	1.4E-07	8.2E-08	2.2E-07	6.4E-06	3.7E-06	1.0E-05	1.4E-06	6.9E-07	2.1E-06
Benzo(g,h,i)perylene	4.0E+00				7.8E-06	1.8E-05	2.6E-05	1.7E-06	3.3E-06	5.0E-06
Polychlorinated biphenyls (PCBs)	9.0E-01				6.2E-03	9.6E-03	1.6E-02	5.4E-03	7.1E-03	1.3E-02
Lead	7.8E+02				8.4E-02	8.3E-03	9.3E-02	1.8E-01	1.5E-02	2.0E-01

TABLE 12
SUMMARY OF HAZARD INDICES AND RISK ESTIMATES
16 Blackmer Street
New Bedford, MA

SITE AREA Receptor Media (depth)	Exposure Pathway	Hazard Index Subchronic	Hazard Index Chronic	Cancer Risk Estimate
SOUTH AREA				
CURRENT/FUTURE CONDITIONS				
Construction Worker **Soils (0-3 feet bgs)**	Incidental Ingestion, Dermal Contact and Inhalation of Particulates	8E-01	-	6E-07
Construction Worker **Soils (0-6.5 feet bgs)**	Incidental Ingestion, Dermal Contact and Inhalation of Particulates	8E-01	-	4E-07
Trespasser **Soils (0-3 feet bgs)**	Incidental Ingestion and Dermal Contact	2E-01	1E-01	9E-07
Trespasser **Soils (0-6.5 feet bgs)**	Incidental Ingestion and Dermal Contact	2E-01	1E-01	7E-07
FUTURE CONDITIONS				
Resident **Soils (0-3 feet bgs)**	Incidental Ingestion, Dermal Contact and Ingestion of Homegrown Vegetables	**7E+01**	**5E+01**	**2E-05**
Resident **Soils (0-6.5 feet bgs)**	Incidental Ingestion, Dermal Contact and Ingestion of Homegrown Vegetables	**1E+02**	**8E+01**	**3E-04**
NORTH AREA				
CURRENT/FUTURE CONDITIONS				
Construction Worker **Soils (0-3 feet bgs)**	Incidental Ingestion, Dermal Contact and Inhalation of Particulates	3E-03	-	5E-08
Construction Worker **Soils (0-6 feet bgs)**	Incidental Ingestion, Dermal Contact and Inhalation of Particulates	2E-03	-	3E-08
FUTURE CONDITIONS				
Resident **Soils (0-3 feet bgs)**	Incidental Ingestion, Dermal Contact and Ingestion of Homegrown Vegetables	1E-02	5E-02	2E-06
Resident **Soils (0-6 feet bgs)**	Incidental Ingestion, Dermal Contact and Ingestion of Homegrown Vegetables	6E-03	3E-02	1E-06
MA DEP Risk Limits:		1E+00	1E+00	1E-05

Notes:
NC indicates no carcinogens detected.
Values in bold exceed MA DEP risk limits.

APPENDIX A
TOXICITY PROFILES

ACENAPHTHENE

GENERAL BACKGROUND INFORMATION

Acenaphthene is a member of the polycyclic aromatic hydrocarbons (PAH). PAHs are a class of non-polar compounds that contain two or more aromatic rings. They are ubiquitous in nature and are both naturally occurring and man-made. The database for acenaphthene is very limited.

PHARMACOKINETICS

No data were found regarding the pharmacokinetics of acenaphthene.

HUMAN TOXICOLOGICAL PROFILE

No data were found regarding the human toxicology of acenaphthene.

MAMMALIAN TOXICOLOGICAL PROFILE

Adverse effects on the lungs, glands, and blood were observed in rats following aerosol administration of 12 mg/m^3 acenaphthene for 5 months (U.S. EPA, 1981).

GENOTOXICITY

Mutagenicity tests for acenaphthene were negative (U.S. EPA, 1981). Carcinogenicity tests were negative (IARC, 1983).

REFERENCES

International Agency for Research on Cancer (IARC) (1983) *Monograph on the evaluation of carcinogenic risk of chemicals to man: polynuclear aromatic hydrocarbons*. 32:33-43.

U.S. Environmental Protection Agency (U.S. EPA) (1981) An exposure and risk assessment for acenaphthalene. U.S. EPA Contract No. 68-01-6017. Office of Water Regulations and Standards, Washington, D.C.

ACENAPHTHYLENE

GENERAL BACKGROUND INFORMATION

Acenaphthylene is a member of the polycyclic aromatic hydrocarbons (PAH). PAHs are a class of non-polar compounds that contain two or more aromatic rings. They are ubiquitous in nature and are both naturally occurring and man-made. The data on acenaphthylene are limited.

PHARMACOKINETICS

No data were found regarding the pharmacokinetics of acenaphthylene.

HUMAN TOXICOLOGICAL PROFILE

No data were found regarding the human toxicity of acenaphthylene.

MAMMALIAN TOXICOLOGICAL PROFILE

No data were found regarding the mammalian toxicity of acenaphthylene.

GENOTOXICITY

Data from a single mutagenicity assay using acenaphthylene were positive (U.S. EPA, 1982).

REFERENCES

U.S. Environmental Protection Agency (U.S. EPA) (1982) An exposure and risk assessment for polynuclear aromatic hydrocarbons (acenaphthylene). U.S. EPA Contract 68-01-6017. Office of Water Regulations and Standards. Washington, D.C.

ANTHRACENE

GENERAL BACKGROUND INFORMATION

Anthracene is a polycyclic aromatic hydrocarbon (PAH). PAHs are a class of compounds which are non-polar and contain two or more aromatic rings. They are ubiquitous in nature and are both naturally occurring and man-made. As a PAH, anthracene is found in tobacco smoke, certain foods, and the emissions from industrial or natural burning.

PHARMACOKINETICS

Little data were found regarding the pharmacokinetics of anthracene. The intestinal absorption of anthracene is less dependent on the presence of bile in the stomach than is the absorption of larger PAHs such as benzo(a)pyrene (Rahman et al, 1986).

HUMAN TOXICOLOGICAL PROFILE

Anthracene is a skin irritant and allergen (Sax, 1984). Humans exposed to anthracene in an occupational setting may demonstrate skin disorders (Clement, 1985). Anthracene has been associated with gastrointestinal tract toxicity in humans (Badiali et al, 1985). However, the usefulness of this study is limited due to confounding factors. Hematopoietic toxicity has also been observed in cancer patients who have been treated with anthracene-containing chemotherapeutics (Falkson et al, 1985). No control groups and concomitant exposure to other ingredients in the therapeutic agents prevents any definitive conclusions.

MAMMALIAN TOXICOLOGICAL PROFILE

A subchronic study where anthracene was administered to mice by gavage for at least 90 days found no treatment-related effects at doses up to 1000 mg/kg-day (USEPA, 1989).

The data on the carcinogenicity of anthracene are considered inadequate by EPA (IRIS, 1991).

GENOTOXICITY

Tests for DNA damage, mutation, chromosome effects and cell transformation in a variety of eukaryotic cell preparations have shown negative results. The majority of tests using anthracene in prokaryotes are negative, but positive results are reported in one or two tests (ATSDR, 1990; IRIS, 1991).

REFERENCES

Agency for Toxic Substances and Disease Registry (ATSDR) (1990) Toxicological summary for polycyclic aromatic hydrocarbons. U.S. Public Health Service.

Badiali, D. et al. (1985) *Melanosis of the rectum in patients with constant constipation*. Dis Colon Rectum 28:241-245.

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Integrated Risk Information System (IRIS) (1991) U.S. Environmental Protection Agency

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BENZO[a]ANTHRACENE

GENERAL BACKGROUND INFORMATION

Benzo[a]anthracene (BaA) is a member of the polycyclic aromatic hydrocarbons (PAH). PAHs are a class of non-polar compounds that contain two or more aromatic rings. They are ubiquitous in nature and are both naturally occurring and man-made. The overall database for benzo[a]anthracene is limited. Human exposures to BaA can come from the oral, inhalation or dermal routes. BaA is produced when gasoline or other organic material is burned. It is also found in cigarette smoke and cooked food. People most at risk from exposure to BaA are those in the coal tar and asphalt production industries, cooking plants, coal gasification plants, smoke houses and industrial plants that burn wood, trash, coal or oil.

PHARMACOKINETICS

BaA is absorbed by the dermal and oral routes. There is no information on absorption by inhalation. Biotransformation to reactive intermediates is necessary for toxicity (ATSDR, 1990). BaA accumulates in adipose tissue. The metabolism of BaA is similar to the metabolism of benzo[a]pyrene (Cooper et al., 1983). In brief, the aromatic ring is oxidized by arene oxides to form reactive intermediates. The reactive intermediates are subsequently hydrolyzed to diols (Sims and Grover, 1974). The diols are conjugated with glutathione and excreted.

HUMAN TOXICOLOGICAL PROFILE

There are no reports directly correlating human exposure to BaA with the development of excess tumors.

MAMMALIAN TOXICOLOGICAL PROFILE

The only toxicity endpoint that has been adequately studied for BaA is dermal carcinogenicity. There is some evidence that benz[a]anthracene is carcinogenic in laboratory animals by the oral route (Klein, 1963; Bock and King, 1959) and also by subcutaneous injection (IARC, 1973). BaA has been shown to cause skin tumors after dermal application (Bingham and Falk, 1969). Tumorigenicity of the diol epoxide metabolite has been shown (Levin et al., 1978) as well as the mutagenicity of the diol epoxide (Wood et al., 1977).

GENOTOXICITY

The metabolism of BaA is an essential event in producing genotoxic effects in both *in vitro* and *in vivo* biological test systems (ATSDR, 1990). The intermediates formed by BaA metabolism are reactive electrophiles which are capable of interacting with DNA.

REFERENCES

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Wood, A.W., Chang, R.L., Levin, W., et al. (1977) *Mutagenicity and cytotoxicity of benz(a)anthracene diol epoxide and tetrahydroepoxides. Exceptional activity of the bay region 1,2-epoxides*. **Proc. Natl. Acad. Sci. USA** 74:2746-2750.

BENZO[a]PYRENE

GENERAL BACKGROUND INFORMATION

Benzo[a]pyrene (BaP) is a member of the class of compounds generally referred to as polyaromatic hydrocarbons (PAH).
PAHs contain two or more aromatic rings. They are ubiquitous in nature and are both naturally occurring and man-made. BaP is a component of fossil fuels and is produced from the incomplete combustion of organic compounds. BaP and other PAHs are found in coal tar, creosote oils and pitches formed from the distillation of coal tars (ATSDR, 1990).

PHARMACOKINETICS

BaP is readily absorbed by dermal, inhalation and oral routes (see section on Relative Absorption Factors). Distribution of BaP is rapid among several tissues. Following inhalation exposure to ^{3}H labeled BaP, maximum levels of radioactivity were found in the liver, esophagus, small intestine and blood after 30 minutes. After 12 hours, maximum levels were found in the cecum, stomach and large intestine (Sun et al., 1982). This and other studies provide evidence for the enterohepatic circulation of BaP metabolites.

Mammalian metabolism of BaP follows the mechanism established for smaller aromatic compounds (Williams, 1959). There is an initial oxidation of a double bond on one of the rings to an arene oxide. The oxide is then hydrolyzed to the diol. Oxidations may occur at multiple sites on the BaP molecule. Phase II metabolism is considered the detoxication pathway and involves the conjugation of the activated Phase I metabolites with easily eliminated substrates such as glutathione, glucuronide or sulfate (Cooper et al., 1983). In addition to being conjugated, the diol intermediate can undergo (1) further oxidation to several uncharacterized metabolites via the P-450 monooxygenase system, (2) spontaneous rearrangement to the phenol or (3) hydration to the trans-diols through a reaction catalyzed by epoxide hydrolase (Cooper et al., 1983). BaP 7,8-diol-9,10-epoxide has been established as an ultimate carcinogen (ATSDR, 1990). The primary route of excretion of BaP is through the feces. BaP undergoes first-pass metabolism and is reabsorbed via enterohepatic circulation (Chipman et al., 1982). Rats exposed by gavage to ^{14}C labeled BaP in peanut oil excreted up to 85% in the feces. Excretion in the urine was 1 to 3% of the administered dose (Hecht et al., 1979).

HUMAN TOXICOLOGICAL PROFILE

The database for the toxicological effects of BaP on humans, separate from PAHs, is limited. Toxic effects attributable to mixtures of PAHs include a variety of skin lesions and non-cancer lung diseases such as bronchitis (IARC, 1973).

MAMMALIAN TOXICOLOGICAL PROFILE

BaP is a moderately potent experimental carcinogen in numerous species by many routes of exposure (IARC, 1983). Mice exposed to doses of BaP ranging from 1.5 to 400 mg/kg/d developed benign and malignant tumors of the forestomach (Hartwell, 1951; Thompson, 1971). Acute intragastric doses of 50 to 67 mg/kg of BaP have been shown to elicit pulmonary adenomas and forestomach papillomas in mice (Sparnins et al., 1986; Wattenberg and Beuding, 1986). Intermittent gavage exposure of mice to 50 to 67 mg/kg BaP resulted in 100% forestomach and pulmonary tumor incidences at 30 weeks of age (Sparnins et al., 1986; Wattenberg and Leong, 1970). Mice fed BaP at concentrations equivalent to 33.3 mg/kg/d exhibited gastric neoplasms following two or more days of consumption. However, lower concentrations of BaP (equivalent to 13.3 mg/kg/d) administered for up to 7 days did not produce any forestomach tumors (Neal and Rigdon, 1967). Hamsters have developed papillomas and carcinomas of the alimentary tract following gavage or dietary exposure to BaP (Chu and Malmgrem, 1965). A single oral dose of 100 mg BaP (200mg/kg) produced mammary tumors in 88% of female Sprague-Dawley rats (Huggins and Yang, 1962). A 77% mammary tumor incidence was observed 90 weeks after a single oral dose of BaP of 50 mg (100mg/kg) was administered to rats (McCormick, 1981).

GENOTOXICITY

There are no studies relating exposure to BaP in humans to genotoxicity. In short-term *in vitro* and *in vivo* genetic toxicology tests, BaP has been shown to be a potent genotoxic agent when metabolically activated. In mice, oral exposure to 10 mg/kg BaP produced gene mutations in the mouse coat color spot test (Davidson and Dawson, 1976,1977). BaP shows positive mutagenic activity, in vitro, in several strains of *Salmonella typhimurium* in the presence of either rodent microsomes or hepatocytes for exogenous metabolic activation (ATSDR, 1990). Epidemiological studies have shown increased incidences of lung cancer in humans exposed via inhalation to mixtures of PAHs which include BaP (ATSDR, 1990).

REFERENCES

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BENZO[b]FLUORANTHENE

GENERAL BACKGROUND INFORMATION

Benzo[b]fluoranthene (BbF) is a member of the class of compounds referred to as polycyclic aromatic hydrocarbons (PAHs). PAHs contain two or more aromatic rings. PAHs are ubiquitous in nature and are both naturally occurring and man-made. Exposure to BbF can come from air, water, or soil. As a PAH, BbF is present in the emissions from industrial plants that produce coal tar, cooking plants, asphalt production plants, and home heating with wood and coal. BbF is also present in charcoal-broiled foods and cigarette smoke (ATSDR, 1990).

PHARMACOKINETICS

No data on the absorption, distribution or excretion of BbF were identified. BbF is metabolized under *in vitro* incubation conditions to phenol and dihydrodiol metabolites (Amin et al., 1982). The general metabolic pathways elucidated for benzo(a)pyrene are also active on BbF (Cooper et al., 1983; Levin et al., 1982; Grover et al., 1986). The reactive metabolites associated with the tumorigenic effects of BbF may not be the diol epoxides (Amin et al., 1982; Amin et al., 1985). As for the other PAHs, the material excreted is expected to consist primarily of dihydrodiol and phenol conjugates (Grover et al., 1986).

HUMAN TOXICOLOGICAL PROFILE

The database for human toxicity is very limited. There are no studies correlating exposure to BbF and cancer or systemic toxicity. The only data implicating BbF as a carcinogen come from carcinogenicity studies using a mixture of PAHs.

MAMMALIAN TOXICOLOGICAL PROFILE

The database on the toxicity of BbF is limited. Intratracheal administration of BbF to rats resulted in an increase in respiratory tract tumors (Deutsch-Wenzel et al., 1983). BbF has caused skin tumors in mice following dermal application (Wynder and Hoffman, 1959). The skin tumor initiating ability of BbF has been demonstrated in mice using a standard initiation/promotion protocol with either croton oil or phorbol myristate acetate as a tumor promotor (Amin et al., 1985; LaVoie et al., 1979, 1982).

GENOTOXICITY

The genotoxicity of BbF has been shown equivocally in three *in vitro* studies. BbF has been shown to be mutagenic in *Salmonella typhimurium* in the presence of an exogenous rat-liver preparation (LaVoie et al., 1979). Mutagenic activity has been reported in another similar study (Hermann, 1981). Negative results were reported by Mossanda (1979). The results cannot support an unequivocal determination regarding the genotoxicity of BbF at this time.

REFERENCES

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BENZO[g,h,i]PERYLENE

GENERAL BACKGROUND INFORMATION

Benzo[g,h,i]perylene is a member of the polyaromatic hydrocarbons (PAH). PAHs constitute a class of non-polar compounds that contain two or more aromatic rings. They are ubiquitous in nature and are both naturally occurring and man-made. The data regarding benzo[g,h,i]perylene are limited. As a PAH, it is found in food (charcoal broiled meats), vegetables, tobacco smoke and soot (U.S. EPA, 1980). Exposure occurs by inhalation, ingestion and by dermal contact.

PHARMACOKINETICS

No data were found regarding the pharmacokinetics of benzo[g,h,i]perylene.

HUMAN TOXICOLOGICAL PROFILE

No data were found regarding the human toxicology of benzo[g,h,i]perylene.

MAMMALIAN TOXICOLOGICAL PROFILE

No data were found regarding the mammalian toxicity of benzo[g,h,i]perylene.

GENOTOXICITY

No data were found regarding the genotoxicity of benzo[g,h,i]perylene.

REFERENCES

U.S. Environmental Protection Agency (U.S. EPA). (1980) An exposure risk assessment of polycyclic aromatic hydrocarbons (benzo(g,h,i)perylene). U.S. EPA Contract 68-01-6017. Office of Water Regulations and Standards. Washington, D.C.

CHRYSENE

GENERAL BACKGROUND INFORMATION

Chrysene is one of the polycyclic aromatic hydrocarbon (PAH) compounds which are formed during the combustion of organic material. Chrysene often exists in particulate form, adsorbing to existing particulate material in air. Human exposure can occur in the workplace (coal and asphalt production plants, cooking plants, smoke houses) or in the environment due to chrysene contamination of air, food, soil and water (ATSDR, 1990).

PHARMACOKINETICS

Chrysene can be absorbed by all routes of exposure (see section on Relative Absorption Factors). Its absorption is believed to be qualitatively similar to benzo[a]pyrene (ATSDR, 1990). Following absorption, chrysene distributes to all organs, reaching the highest concentration in tissues with large fat content (adipose tissue, mammary tissue, brain) (Modica et al., 1983). Chrysene undergoes metabolic biotransformation mediated by the mixed function oxidase enzyme system to form reactive intermediates hypothesized to be responsible for its toxicity. The major metabolites include trans-dihydrodiols, phenols, diol epoxides and triol epoxides (Thakker et al., 1985). The reactive metabolites are conjugated and excreted primarily in feces (Schlede et al., 1970).

HUMAN TOXICOLOGICAL PROFILE

There is no information available on threshold toxic effects of chrysene in humans. Since it is structurally similar to benzo[a]pyrene, it would be expected to produce effects similar to B[a]P following acute or chronic exposure (see Toxicity Profile on Benzo[a]pyrene).

MAMMALIAN TOXICOLOGICAL PROFILE

There is no information available on threshold toxic effects of chrysene in animals. Since it is structurally similar to benzo[a]pyrene, it would be expected to produce effects similar to B[a]P following acute or chronic exposure (see Toxicity Profile for Benzo[a]pyrene).

GENOTOXICITY

The genotoxicity of chrysene has been evaluated in in vivo and in vitro cytogenetic tests. Chrysene produced weak positive results in bacterial mutation assays, human epithelial mutation studies, cell transformation assays and in vivo cytogenetic studies (Waters et al., 1987). Metabolism of chrysene is essential to produce the observed positive responses. Chrysene is not genotoxic in all test systems, however, it is believed to be a weak mutagen (ATSDR, 1990). The carcinogenicity of chrysene has not been adequately studied. There are no reports directly correlating human chrysene exposure and tumor development. There is limited evidence that chryesene is a skin carcinogen in animals following long-term dermal application (Wynder and Hoffmann, 1959; Hecht et al., 1974).

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DIBENZO[a,h]ANTHRACENE

GENERAL BACKGROUND INFORMATION

Dibenzo[a,h]anthracene is a member of the polycyclic aromatic hydrocarbons (PAH). PAHs are a class of compounds which are non-polar and contain two or more aromatic rings. They are ubiquitous in nature and are both naturally occurring and man-made. The data regarding dibenzo[a,h]anthracene are very limited. As a PAH, it is found in tobacco smoke, food, and the emissions from industrial or natural burning.

PHARMACOKINETICS

Dibenzo[a,h]anthracene is metabolized similarly to benzo(a)pyrene (ATSDR, 1990). However, while the metabolic profiles of these two compounds (and other alternant PAHs) are qualitatively similar, there are differences in the levels and rates of formation of specific metabolites among tissues and cell preparations used. Sanders et al (1986) applied ^{14}C - dibenzo[a,h]anthracene to the shaved backs of mice. After 24 hours, the majority of activity was recovered from the application site, with the remainder from body tissues and excreta. In comparison, benzo(a)pyrene similarly applied was found predominantly in the excreta and body tissues, with the remainder at the application site.

HUMAN TOXICOLOGICAL PROFILE

The database for the toxicological effects of dibenzo[a,h]anthracene on humans, separate from other PAHs, is limited. Toxic effects attributable to mixtures of PAHs include a variety of skin lesions and non-cancer lung diseases such as bronchitis (IARC, 1973).

MAMMALIAN TOXICOLOGICAL PROFILE

Dibenzo[a,h]anthracene has been shown to induce skin tumors in lab animals (i.e. it is a complete carcinogen) following dermal exposure (Wyndner and Hoffman, 1959; Van Duuren et al, 1967; and Lijinsky et al, 1965). Dibenzo[a,h]anthracene ahs also demonstrated tumor initiation activity (Slaga et al. 1980).

Carcinogenic PAHs as a group has immunosupprssive effects, with the degree of immunosuppression correlated with carcinogenic potency (ATSDR, 1990). Dibenzo[a,h]anthracene was also tested for developmental effects via parenteral routes and was found to produce fetolethal effects in rats (Wolfe and Bryan, 1939).

GENOTOXICITY

Dibenzo[a,h]anthracene is mutagenic (Barfknecht et al, 1982; Rocchi et al, 1980) and produces DNA damage (Martin et al, 1978) in cultured human cells. Test results in nonhuman systems were also positve (ATSDR, 1990).

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FLUORANTHENE

GENERAL BACKGROUND INFORMATION

Fluoranthene is a member of the polyaromatic hydrocarbons (PAH). PAHs constitute a class of non-polar compounds that contain two or more aromatic rings. They are ubiquitous in nature and are both naturally occurring and man-made. Fluoranthene has been detected in food, cigarette smoke, and smoke from industrial and natural burning.

PHARMACOKINETICS

No data were found regarding the pharmacokinetics of fluoranthene.

HUMAN TOXICOLOGICAL PROFILE

The database for the toxicological effects of fluoranthene on humans, separate from other PAHs, is limited. Toxic effects attributable to mixtures of PAHs include a variety of skin lesions and non-cancer lung diseases such as bronchitis (IARC, 1973).

MAMMALIAN TOXICOLOGICAL PROFILE

The database on the toxicity of fluoranthene is limited. A 13 week subchronic study where CD-1 mice were gavaged with up to 500 mg/kg-day of fluoranthene indicated nephropathy, increased liver weights, hematological alterations and clinical effects (EPA, 1988). A developmental study in which fluoranthene was administered once via intraperitoneal injection to pregnant mice reported only an increased rate of embryo resorption (Irvin and Martin, 1987).

Chronic dermal application of up to 1 percent fluoranthene to the backs of mice did not induce skin tumors following lifetime application (Hoffman et al, 1972; Horton and Christian, 1974; and Wydner and Hoffman, 1959a). Fluoranthene is not a complete carcinogen (ATSDR, 1990) and does not exhibit iniation activity (Hoffman et al, 1972).

GENOTOXICITY

There is some evidence that fluoranthene is genotoxic (ATSDR, 1990). Genotoxic effects have been reported in human cells with exogenous metabolic activation, but negative results were recorded without metabolic activation.

REFERENCES

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FLUORENE

GENERAL BACKGROUND INFORMATION

Fluorene is a member of the polyaromatic hydrocarbons (PAH). PAHs constitute a class of non-polar compounds that contain two or more aromatic rings. They are ubiquitous in nature and are both naturally occurring and man-made. The data on fluorene are very limited. Low levels of (5 to 67 ug/kg) have been detected in smoked meats (U.S. EPA, 1982).

PHARMACOKINETICS

No data were found regarding the pharmacokinetics of fluorene.

HUMAN TOXICOLOGICAL PROFILE

The database for the toxicological effects of fluoranthene on humans, separate from other PAHs, is limited. Toxic effects attributable to mixtures of PAHs include a variety of skin lesions and non-cancer lung diseases such as bronchitis (IARC, 1973).

MAMMALIAN TOXICOLOGICAL PROFILE

Limited information is available on the threshold effects of fluorene. An EPA study (EPA,1989) indicated that CD-1 mice exposed by gavage to up to 500 mg/kg-day of fluorene showed hypoactivity as well as a decrease in red blood cell count and packed cell volume and hemoglobin. Increases in absolute and relative liver, spleen and kidney weights was also observed. Gershbein (1975) reported that partially hepatectomized rats fed a diet of 180 mg/kg-day of fluorene for 10 days showed a statistically significant increase in liver regeneration, which is indicative of the ability to induce a proliferative response.

Fluorene is not reported to be a complete skin carcinogen (ATSDR, 1990). It was inactive as a tumor initiator when an estimated total dose of 1.0 mg was applied prior to the application of tetradecanoyl phorbol acetate (LaVoie et al, 1980).

GENOTOXICITY

There is no evidence that fluorene is genotoxic, but genotoxicity has been studied only in a few in vitro assays (ATSDR, 1990).

REFERENCES

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INDENO[1,2,3-cd]PYRENE

GENERAL BACKGROUND INFORMATION

Indeno[1,2,3,-cd]pyrene is a member of the polyaromatic hydrocarbons (PAH). PAHs constitute a class of non-polar compounds that contain two or more aromatic rings. They are ubiquitous in nature and are both naturally occurring and man-made. Indeno[1,2,3-cd]pyrene is present in cigarette smoke (IARC, 1983) as well as emissions from industrial stacks.

PHARMACOKINETICS

No data were found regarding the pharmacokinetics of indeno[1,2,3-cd]pyrene. However, its metabolism should be similar to another non-alternant PAH, benzo(b)fluoranthene (ATSDR, 1990).

HUMAN TOXICOLOGICAL PROFILE

The database for the toxicological effects of indeno[1,2,3-cd]pyrene on humans, separate from other PAHs, is limited. Toxic effects attributable to mixtures of PAHs include a variety of skin lesions and non-cancer lung diseases such as bronchitis (IARC, 1973).

MAMMALIAN TOXICOLOGICAL PROFILE

Studies on laboratoyr animals have demonstrated that indeno[1,2,3-cd]pyrene can induce skin tumors (i.e. it is a complete carcinogen) following dermal exposure (ATSDR, 1990).
It has tumor initiating activity, but is not as potent as benzo(b)fluoranthene (Rice et al, 1985).

Carcinogenic PAHs as a group are immunosuppressant, with the degree of suppression correlated with the degree of potency (ATSDR, 1990)

GENOTOXICITY

In test systems using non-human cells, indeno[1,2,3-cd]pyrene was found to be genotoxic (ATSDR, 1990).

REFERENCES

Agency for Toxic Substances and Disease Registry (ATSDR) (1990) Toxicological profile for polycyclic aromatic hydrocarbons. U. S. Public Health Service.

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2-METHYLNAPHTHALENE

GENERAL BACKGROUND INFORMATION

2-Methylnaphthalene is a member of the polycyclic aromatic hydrocarbons (PAH). PAHs are a class of non-polar compounds that contain two or more aromatic rings. They are ubiquitous in nature and are both naturally occurring and man-made. This compound is used in the synthesis of organic chemicals and pesticides. The database for toxicological information is very limited.

PHARMACOKINETICS

No data were found regarding the pharmacokinetics of 2-methylnaphthalene.

HUMAN TOXICOLOGICAL PROFILE

No data were found regarding the human toxicity of 2-methylnaphthalene.

MAMMALIAN TOXICOLOGICAL PROFILE

No data were found regarding the mammalian toxicology of 2-methylnaphthalene.

GENOTOXICITY

No data were found regarding the genotoxicity of 2-methylnaphthalene.

REFERENCES

Agency for Toxic Substances and Disease Registry (ATSDR) (1990) Toxicity profile for naphthalene and 2-methylnaphthalene. U.S. Public Health Service.

NAPHTHALENE

GENERAL BACKGROUND INFORMATION

Naphthalene is a white solid substance at room temperature. It has a distinct odor of mothballs or tar. Humidity and sunshine cause evaporation into the air within a few hours. When placed in water or soil, bacteria will destroy naphthalene, or will render it airborne within a few hours (ATSDR, 1990). Tobacco smoke is known to release 3 ug of naphthalene per cigarette (U.S. EPA, 1982). The compound is used in the production of dyes, solvents, lubricants, motor fuels (U.S. EPA, 1980) and is a major component of many moth ball preparations.

PHARMACOKINETICS

Humans can absorb naphthalene by dermal, inhalation and oral routes (see section on Relative Absorption Factors). Metabolism occurs via the P450 mixed function oxidase enzyme system to yield multiple intermediates which are then conjugated. Key metabolites are responsible for each toxicity endpoint following intraperitoneal administration: 2-naphthoquinones --> hemolysis; 1,2-naphthoquinones --> cataracts; 3-GSH adducts --> pulmonary toxicity (Buckpitt et al., 1984). Excretion of metabolites occurs via urine and feces (ATSDR, 1990).

HUMAN TOXICOLOGICAL PROFILE

Adults and children exposed to airborne naphthalene experience vomiting, abdominal pain and anemia (ATSDR, 1990). Most of the data is for inhalation of naphthalene from mothballs. The primary site of toxicity is the erythrocyte resulting in hemolytic crisis (hemolytic anemia). Jaundice is seen upon dermal, inhalation, and oral exposures, as are kidney effects (ATSDR, 1990). Near-blindness resulted in male and female subjects with 5 gram ingestion (ATSDR, 1990).

MAMMALIAN TOXICOLOGY PROFILE

Oral doses in rats have hepatic effects. Dogs (1800 mg/kg) for 5 days of exposure showed signs of lethargy and ataxia, and decreased hemoglobin levels (ATSDR, 1990)

GENOTOXICITY

No studies of genotoxic effects in humans or laboratory animals were located. No human epidemiological evidence for cancer.
Inconclusive evidence for cancer in rats and mice were found (ATSDR, 1990).

REFERENCES

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PHENANTHRENE

GENERAL BACKGROUND INFORMATION

Phenanthrene is a member of the polyaromatic hydrocarbons (PAH). PAHs constitute a class of non-polar compounds that contain two or more aromatic rings. They are ubiquitous in nature and are both naturally occurring and man-made. The database on the potential health effects of phenanthrene is limited.

PHARMACOKINETICS

Little data are available regarding the pharmacokinetics of phenanthrene. The intestinal absorption of phenanthrene is less dependent on the presence of bile in the stomach than is the absorption of the larger PAHs (such as benzo(a)pyrene) (Rahman et al, 1986).

HUMAN TOXICOLOGICAL PROFILE

Phenanthrene has been shown to be a skin photosensitizer in humans (Sax, 1984).

MAMMALIAN TOXICOLOGICAL PROFILE

Phenanthrene has a reported LD 50 of 700 mg/kg in mice (Simmon et al., 1979). Rats injected intraperitoneally evidenced liver effects (Yoshikawa et al, 1987).

There is equivocal evidence for cancer from dermal application of phenanthrene in rats (IARC, 1983). Phenanthrene is not a complete skin carcinogen (ATSDR, 1990). It is neither an initiator (LaVoie et al, 1981; Roe, 1962) nor a promoter (Roe and Grant, 1964). Higgins and Yang (1962) reported no tumor production within two months after the ingestion of 200 mg of phenanthrene by rats.

GENOTOXICITY

There are limited data that suggest that phenanthrene is mutagenic (Wood et al., 1979). However, the majority of tests are negative (ATSDR, 1990).

REFERENCES

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Yoshikawa, T. et al. (1987) *Toxicity of polycyclic aromatic hydrocarbons III. Effects of beta-naphtoflavone pretreatment on hepatotoxicity of compounds produced in the ozonation or NO2-nitration of phenanthrene and pyrene by rats*. **Vetern Human Toxicol.** 29:113-117.

PYRENE

GENERAL BACKGROUND INFORMATION

Pyrene is a member of the polyaromatic hydrocarbons (PAH). PAHs constitute a class of non-polar compounds that contain two or more aromatic rings. They are ubiquitous in nature and are both naturally occurring and man-made. As with many of the other PAHs, pyrene has been detected in charbroiled meats and shellfish (U.S. EPA, 1982). It is found in tobacco smoke, industrial stack smoke, and smoke from forest fires.

PHARMACOKINETICS

No data were found regarding the pharmacokinetics of pyrene.

HUMAN TOXICOLOGICAL PROFILE

Pyrene is reported to be a skin irritant (Sax, 1984).

MAMMALIAN TOXICOLOGICAL PROFILE

Rats given 150 mg/kg of pyrene had changes in blood chemistry, liver and kidney damage (USEPA, 1982). A 1989 EPA study (EPA, 1989) reported nephropathy and decreased kidney weights in mice exposed to 125 mg/kg-day of pyrene by gavage for 13 weeks.

Mouse skin painting assays indicate that pyrene is neither a complete skin carcinogen, nor an initiating agent (ATSDR, 1990, IRIS, 1991).

GENOTOXICITY

The majority of genotoxic tests of pyrene are negative.
Positive results have been recorded in Salmonella typhimurium mutagenicity tests and in in vitro mammalian cell systems (ATSDR, 1990).

REFERENCES

Agency for Toxic Substances and Disease Registry (ATSDR) (1990) Toxicological profile for polycyclic aromatic hydrocarbons. U. S. Public Health Service.

Sax, N.I. (1984) Dangerous Properties of Industrial Materials. 6th Edition. Van Nostrand Reinhold Company. N.Y.

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VOLATILE/EXTRACTABLE PETROLEUM HYDROCARBON FRACTIONS - VPH/EPH

The following toxicity profile was compiled using information taken directly from MA DEP documents (MA DEP, 1994, 2002, and 2003). Secondary references are cited to the MA DEP document where the information was presented.

GENERAL BACKGROUND INFORMATION

Petroleum products are a complex and highly variable mixture of hundreds of individual hydrocarbon compounds. Industry specifications for refined products, such as gasoline and diesel fuel, are based upon physical and performance-based criteria rather than on a specific chemical formulation. The compositions of petroleum products released to the environment are therefore complex and variable, and are a function of the origin and chemistry of the parent crude oil, the refining and blending processes, and the use of performance-enhancing additives. Once released to the environment, the chemistry of a petroleum product is further altered by contaminant fate and transport processes, such as leaching, volatilization, and biodegradation (MA DEP, 2002).

Although little toxicological data are available for the vast majority of petroleum constituents, it is possible to make some broad observations and conclusions:

- Petroleum products are comprised mainly of aliphatic and aromatic hydrocarbon compounds
- Aromatic hydrocarbons appear to be more toxic than aliphatic compounds; and
- The toxicity of aliphatic compounds appears to be related to their carbon number/molecular weights.

These three precepts are the foundation of the VPH/EPH approach. Under this approach, the non-cancer toxicity of petroleum-contaminated media is established by determining the collective concentrations of specified ranges of aliphatic and aromatic hydrocarbons and assigning a toxicity value (e.g., reference dose) to each range. Well-characterized compounds within specified ranges are selected as "surrogate" indicators to define the toxicity of the entire range (e.g., every aliphatic compound having between 5 and 8 carbon atoms (C_5-C_8 aliphatic hydrocarbons) are assumed to be as toxic as n-hexane). Cancer effects are evaluated separately by the identification and quantitation of those specific hydrocarbons, such as benzene and certain polycyclic aromatic hydrocarbons (PAHs), which are designated carcinogens. (MA DEP, 2002).

HUMAN TOXICOLOGICAL PROFILE - General

Inhaled or ingested volatile hydrocarbons have both general and specific effects. Many organic solvents, including petroleum hydrocarbons, have the potential on acute high-level vapor exposure to cause central nervous system (CNS) disturbances like disorientation, euphoria, giddiness, and confusion; progressing to unconsciousness, paralysis, convulsion, and death from respiratory or cardiac arrest (Browning, 1965 in MA DEP, 2003). These effects have been observed with aliphatic and aromatic compounds found within the C_5 - C_9 (aliphatics) and C_6 - C_{10} (aromatics) carbon ranges.

The acute narcotic effects of the volatile hydrocarbons result from direct chemical action. The similarity of CNS disruption produced by hydrocarbons of diverse structures suggests that these effects result from a common process, which is physical interaction of the solvents with the cells of the CNS (Andrews and Snyder, 1991 in MA DEP, 2003). For example, interaction of the lipid-soluble hydrocarbons with the synaptosomal membranes causes CNS toxicities. The potency of the CNS effects depends on the structure of the individual hydrocarbon molecule.

Other non-specific effects of hydrocarbons are exhibited after prolonged exposure to these agents. The nonspecific effects observed in animals and humans are neurobehavioral toxicities. The neurobehavioral effects are manifested as sensory, cognitive, affective, and motor abnormalities. There is some evidence suggesting that the mechanism of the behavioral effects is alterations in the utilization and turnover of biogenic amines in the brain. These effects occur at lower hydrocarbon concentrations than those producing morphological changes.

Recent animal studies indicate that both aromatic (Korsak and Rydzynski, 1996; Gralewicz et al., 1997 in MA DEP, 2003) and aliphatic (Lund et al., 1995 in MA DEP, 2003) volatile hydrocarbons may cause nonspecific neurobehavioral toxicities with differing intensities depending on the structure of the hydrocarbon.

Distinct from the general CNS effects of hydrocarbons are their associated specific organ toxicities. Examples of such effects include the hematopoietic toxicity of benzene and the neurodegenerative toxicity of n-hexane. The specific toxicities of hydrocarbons may be directly related to their metabolites, as is the case with benzene and n-hexane (Andrews and Snyder, 1991 in MA DEP, 2003).

HUMAN TOXICOLOGICAL PROFILE – Volatile/Extractable Petroleum Hydrocarbon Fractions

Aliphatic Fractions

C_5-C_8 Aliphatics

n-Hexane was originally selected by MA DEP as the indicator for this range because its toxicity has been well investigated and also because of some evidence demonstrating that the other alkanes in the group may have similar neurotoxic capacities. The peripheral neurotoxicity of n-hexane is of particular human health concern, although respiratory and irritation effects have also been observed. Several epidemiological studies have demonstrated that human inhalation exposure to n-hexane resulted in polyneuropathy. In the epidemiological studies, exposure was to n-hexane, commercial grade hexane, or other mixtures within the specified carbon ranges for this fraction. The mixtures contained n-hexane at levels ranging from 12.3 to 60%. The data do not allow comparison of the severity of the neuropathy induced by pure n-hexane or the aliphatic mixtures in the series (MA DEP, 2003).

C_9-C_{18} Aliphatics

Inhalation exposure of painters to white spirit resulted in early disability work status due to neuropsychological disorders. In most of the studies, workers were exposed to mixtures of organic solvents, with the principal component being white spirit. The effects were mainly functional disturbances in the CNS including memory and learning impairments (Lund et al. (1995) and references therein in MA DEP, 2003).

C_{19}-C_{32} Aliphatics

No human toxicological data are available. However, emerging studies suggest that exposures to petroleum distillates appear to increase the risk of autoimmune diseases (e.g., undifferentiated connective tissue diseases (Lacey et al., 1999 in MA DEP, 2003)).

Aromatic Fractions

C_6-C_8 Aromatics

In the MA DEP fractions approach (MA DEP, 1994), aromatic hydrocarbons with fewer than nine carbon atoms (e.g., benzene, toluene) are evaluated on a compound-specific basis. No toxicity data were identified on mixtures in this carbon range. However, the MA DEP has selected a representative oral reference dose for the carbon range considering the availability of good toxicity data for styrene, ethylbenzene, and xylenes and compositional information for this fraction. The human health concerns for these compounds include CNS effects, mucous membrane irritations, and developmental and reproductive effects.

C_9-C_{32} Aromatics

The MA DEP grouped the entire range of C_9-C_{32} aromatic hydrocarbon compounds as a single fraction for the purposes of deriving the oral RfD. For the purposes of evaluating inhalation toxicity, MA DEP evaluated the C_9-C_{18} and C_{19}-C_{32} carbon ranges.

The C_9-C_{18} fraction includes two and three ring PAHs, such as naphthalene, 2-methylnaphthalene, and fluorene; and alkylated benzenes, such as 1,2,4-trimethylbenzene and isopropylbenzene. The critical effects for these compounds from inhalation exposure are pulmonary, hepatic, renal, CNS, and developmental/reproductive effects.

C_{19}-C_{32} Aromatics

No appropriate data were identified to support development of inhalation RfCs for the individual components or mixtures in this carbon range. The compounds in this carbon range are not very volatile and inhalation of gaseous compounds is not a likely route of exposure.

ANIMAL TOXICOLOGICAL PROFILE – Volatile/Extractable Petroleum Hydrocarbon Fractions

Aliphatic Fractions

C_5-C_8 Aliphatics

Overall, the chronic commercial hexane studies used by the Total Petroleum Hydrocarbon Criteria Working Group (TPHCWG) demonstrated that an inhalation exposure to a hexane mixture containing 53% n-hexane produced no toxicity in rodents. However, and most importantly, other chronic human and animal studies showed that commercial hexane causes peripheral neuropathy. In addition, many potential diketone metabolites of n-alkanes produce peripheral neurotoxicity.

C_9-C_{18} Aliphatics

New oral gavage studies on various petroleum streams covering C_9 - C_{17} carbon ranges observed adverse effects in the treated animals such as body weight, organ weight, and blood chemistry changes. A recent neurotoxicity study revealed that exposure of rats to dearomatized white spirit for six months induced long-lasting and possibly irreversible effects in the nervous system.

In acute animal studies, white spirit with low aromatic content produced significant reductions in animal response to learned performances. Increased levels in brain noradrenaline, dopamine, and 5-hydroxytryptamine were observed in rats exposed to various levels of white spirit. Changes in indices of oxidative stress in the synaptosomes were also reported in animals exposed to white spirit for 3 weeks.

C_{19}-C_{32} Aliphatics

Based on a rat subchronic feeding study of several different highly refined white mineral oil samples representing various mineral hydrocarbon (MHC) sizes, the low molecular weight (average molecular weight 320-420) MHC caused mesenteric lymph node histiocytosis and liver granulomas, while the high molecular weight MHC demonstrated minimal effect (Smith et al., 1996 in MA DEP, 2003). No inhalation toxicity data are available.

Aromatic Fractions

C_6-C_8 Aromatics

See discussion under human toxicological profile.

C_9-C_{32} Aromatics

The C_9-C_{18} fraction includes low molecular weight PAHs and alkylated benzenes. Naphthalene is a hematopoietic and pulmonary toxicant. Inhalation exposure to naphthalene produced severe pulmonary damage and lesions in mice (NTP, 1992 in MA DEP, 2003). A recent oral study of a structurally related compound, 1-methylnaphthalene, suggested that the target site might be the pulmonary tissues. Chronic oral administration of 1-methylnaphthalene was associated with significantly increased nodular alveolar proteinosis in mice. A significant increase in pulmonary adenoma was observed in males (Murata et al., 1993 in MA DEP, 2003). In some short-term, high dose experiments, animals exposed to isopropylbenzene exhibited damage to the spleen and fatty changes to the liver. The critical treatment-related effects were to the kidney (Sandmeyer, 1981 in MA DEP, 2003). Rats exposed to trimethylbenzene demonstrated significant changes in CNS function by the behavioral tests in the higher dose groups (Gralewicz et al., 1997 in MA DEP, 2003). Systemic, reproductive, and developmental toxicities have also been demonstrated in animals exposed to C_9 aromatic mixtures (MA DEP, 2003).

For C_{19}-C_{32} aromatics, see discussion under human toxicological profile.

GENOTOXICITY

There are no studies relating TPH-VPH/EPH exposure in humans to genotoxicity. An inhalation oncogenicity study of commercial hexane in rats and mice (API, 1995, Part II in MA DEP, 2003) demonstrated liver tumors in female mice in the highest dose group.

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LEAD

GENERAL BACKGROUND INFORMATION

Lead is used extensively in the manufacture of storage batteries and was used in gasoline and paint. Lead is also a natural constituent of many soils, for which concentrations normally range from 10 to 30 mg lead per kilogram of soil (U.S. EPA, 1980).

PHARMACOKINETICS

Lead can be absorbed by the oral, inhalation or dermal exposure routes (see section on Relative Absorption Factors). Gastrointestinal absorption of lead varies considerably depending upon chemical form, dietary intake, and age (Forbes and Reina, 1974; Barltrop and Meek, 1975). The deposition and absorption of inhaled lead depends upon particle size, chemical form and the rate and depth of breathing (Randall et al., 1975; Nozaki, 1966; Chamberlain et al., 1975). Once absorbed, lead is distributed to the various organs of the body, with most distribution occurring into mineralized tissues (ATSDR, 1990). Placental transfer to the developing fetus is possible (Bellinger et al., 1987). Inorganic lead is not known to be biotransformed within the body. Absorbed lead is excreted via the urinary or fecal routes (ATSDR, 1990)

HUMAN TOXICOLOGICAL PROFILE

Cases of acute lead poisoning in humans are not common and have not been studied in experimental animals as thoroughly as chronic lead poisoning. Symptoms of acute lead poisoning from deliberate ingestion by humans may include vomiting, abdominal pain, hemolysis, liver damage, and reversible tubular necrosis (U.S. EPA, 1984). Subacute exposures in humans reportedly may produce a variety of neurological effects including dullness, restlessness, irritability, poor attention span, headaches, muscular tremor, hallucinations, and loss of memory. Nortier et al., (1980) report encephalopathy and renal damage to be the most serious complications of chronic toxicity in man and the hematopoietic system to be the most sensitive. For this reason, most data on the effects of lead exposure in humans are based upon blood lead levels. The effects of lead on the formation of hemoglobin and other hemoproteins, causing decreased levels, are reportedly detectable at lower levels of lead exposure than in any other organ system (Betts et al., 1973). Peripheral nerve dysfunction is observed in adults at levels of 30 to 50 tg/dL-blood. Children's nervous systems are reported to be affected at levels of 15 tg/dL-blood and higher (Benignus et al., 1981). In high doses, lead compounds may potentially cause abortions, premature delivery, and early membrane rupture (Rom, 1976).

MAMMALIAN TOXICOLOGICAL PROFILE

Acute oral lethal doses of lead in animals depend upon chemical form, but generally range from 500 to 30,000 mg/kg. Several reproduction studies on the effects of subchronic oral exposure to lead in rats have been conducted (Kimmel et al., 1976; Grant et al., 1980; Fowler et al., 1980). These studies report that lead acetate administered in drinking water at various concentrations caused depressed body weights at 50 and 250 mg-Pb/L water, histological changes in the kidneys of offspring, cytokaryomegaly of the tubular epithelial cells of the inner cortex at concentrations greater than or equal to 25 mg/L and postnatal developmental delays at 50 to 250 mg/L. Higher oral doses of lead may result in decreased fertility and fetotoxic effects in a variety of species (Hilderbrand et al., 1973). A reduction in the number of offspring of rats and mice exposed to 25 mg Pb/L drinking water with a chromium deficient diet was reported by Schroeder et al. (1970). Chronic oral exposure of female Long-Evans rats to lead (5 mg/PB/L-water) reportedly resulted in slight effects on tissue excitability, systolic blood pressure, and cardiac ATP concentrations (Kopp et al., 1980a,b).

GENOTOXICITY

Results of *in vitro* studies with human lymphocyte cultures using lead acetate were nearly equally positive and negative. Results of in vivo tests are also contradictory but suggest that lead may have an effect on chromosomes (sister chromatid exchange).
Results for gene mutations, DNA modification, and recombinations in various microorganisms using lead acetate, lead nitrate and lead chloride were consistently negative with or without metabolic activation. Lead chloride has been reported to inhibit both DNA and RNA synthesis. In *in vitro* mammalian test systems, lead acetate gave conflicting results.

No epidemiological data regarding the oral carcinogenic potential of lead could be located in the available literature. Chronic inhalation may result in a statistically significant increase in deaths due to tumors in the digestive organs and respiratory systems in lead smelter workers and battery plant workers (Kang et al., 1980). Several studies have reported tumor formation in experimental animals orally administered specific lead salts, not normally ingested by humans (Zawirska and Medras, 1972; Boyland et al., 1962; Ito, 1973). The carcinogenicity of inhaled lead in experimental animals could not be located in the available literature. The U.S. EPA has classified lead and lead compounds as Group B2 - Probable Human Carcinogens.

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POLYCHLORINATED BIPHENYLS (PCBs)

GENERAL BACKGROUND INFORMATION

The thermal stability, nonflammability, and dielectric capability of PCBs resulted in their use in electrical capacitors and transformers (NIOSH, 1986). The manufacturing, processing, distribution in commerce, and use of PCBs after January 1, 1978 was prohibited under Section 6(e) of the Toxic Substances Control Act. PCBs can be released to the environment during fires involving electrical equipment containing these compounds. PCBs are strongly adsorbed on solid surfaces, including glass and metal surfaces in laboratory apparatus, and onto soils, sediments, and particulates in the environment.

PHARMACOKINETICS

Gastrointestinal absorption of most PCB isomers is large. PCBs can also be absorbed by the inhalation and dermal routes but limited data are available (see section on Relative Absorption Factors). Distribution of PCBs follows a biphasic pattern. Initially, PCBs distribute to liver and muscle tissue. They are then redistributed to the fat, skin, and other fat-containing organs (ATSDR, 1989). PCBs are poorly metabolized in humans with major metabolites being 3- or 4-hydroxy compounds. Metabolism may proceed through formation of arene oxide intermediates (U.S. EPA, 1988). The slow metabolism of PCB congeners to more polar compounds is responsible for long biological half-lives of PCBs. Excretion occurs primarily through the feces (Goto et al., 1974).

HUMAN TOXICOLOGICAL PROFILE

Dermatologic signs are the most persistent indicator of PCB toxicity. Skin manifestations have been observed also in newborn infants of mothers exposed to high levels of PCBs and related compounds. Cases of severe chloracne were reported in a work environment in which PCB air levels were found to be between 5.2 and 6.8 mg/m^3. The workers developing chloracne had been exposed for 2 to 4 years. Other analyses revealed worker complaints of dry sore throat, skin rash, gastrointestinal disturbances, eye irritation, and headache at work area concentrations of 0.013 to 0.15 mg PCB/m^3. Higher blood PCB levels are associated with higher serum triglyceride and/or cholesterol levels, as well as high blood pressure. Air PCB concentrations as low as 0.1 mg/m^3 can produce toxic effects, and exposure to levels producing no overt toxicity can affect liver function. Recovery after termination of exposure occurs but is slow and depends upon the amount of PCBs stored in adipose tissue (Clayton and Clayton, 1981). Human exposures to PCBs resulting in toxic effects have almost all resulted from the ingestion of rice oil contaminated with "Kanechlor 400" in Japan (resulting in Yusho or rice oil disease) or from industrial exposure. Clinical symptoms of poisoning included acne-like skin eruptions (chloracne), eyelid edema, conjunctival discharge, skin and nail pigmentation, and hyperkeratosis. Yusho patients are estimated to have ingested approximately 0.07 mg/kg/day for at least 50 days. The rice oil was found to be contaminated with polychlorinated dibenzofuran, which is believed to have played a significant role in the observed toxicity (Bandiera et al., 1984; Kashimoto et al., 1981). As suggested by laboratory experiments with Rhesus monkeys, fetal and newborn primates, including humans, may be particularly susceptible to PCBs. Fein et al. (1984) studied the effects of low-level chronic exposure to PCBs in pregnant women and their newborn offspring from consumption of Lake Michigan fish. Low levels of PCBs were reported to cause decreases in birth weight, head circumference, and gestational age of the newborn. PCBs were apparently transmitted to the fetus across the placenta and to the newborn through breast milk. Behavioral deficiencies, including immaturity of reflexes and depressed responsiveness, were reportedly observed in infants exposed to PCBs. Jacobson et al. (1984) correlated maternal consumption of PCB-contaminated fish with behavioral abnormalities in newborns,

including autonomic immaturity and depressed responsiveness. The authors likened these responses to similar effects in laboratory animals.

MAMMALIAN TOXICOLOGICAL PROFILE

PCBs are only slightly toxic in acute exposures to laboratory animals. LD_{50} values for rats, rabbits, and mice are generally in the range of 1 to 10 g/kg body weight (U.S. EPA, 1980). Nonhuman primates seem to be particularly sensitive to PCB-induced reproductive effects (U.S. EPA, 1980). Dietary exposures of cynomolgus and Rhesus monkeys to 200 ug of Aroclor 1254/kg-day, 5 days per week for 28 months, resulted in symptoms of enlarged tarsal glands, conjunctivitis, loss of eyelashes, progressive detachment of fingernails, exuberant nail beds, hyperplasia of biliary ducts, hepatocellular enlargement and necrosis, and normocytic anemia (Tryphonos et al., 1986a; Tryphonos et al., 1986b). Effects were less pronounced in cynomolgus monkeys.

Monkeys that were fed diets containing 1.0 ppm of Aroclor 1016 for approximately 7 months prior to mating and during pregnancy delivered infants with reduced birth weights (Barsotti and Van Miller, 1984). Fetal mortality occurred at >2.5 ppm (0.1 mg/kg/day) of Aroclor 1248 in the diet in other studies with monkeys (Allen and Barsotti, 1976; Barsotti et al., 1976; Allen et al., 1980). In rats, a dose of 269 ppm of Aroclor 1254 given continuously in the food over the duration of pregnancy caused a decrease in the number of impregnated rats that delivered litters. Pups that were born were underweight, and most died within 7 days of birth. Two lower doses (26 and 2.5 ppm) caused altered neurobehavioral and somatic ontogeny (Overmann et al., 1987). PCBs have been shown to be teratogenic in mice. Cleft palate, dilated kidney pelvis, and thymus hypoplasia were observed. The ED50 (effective dose for 50% of the animals) for formation of cleft palate was a single 100 mg/kg dose, with peak sensitivity occurring on the twelfth day of gestation (d'Argy et al., 1987).

Immunological effects (decreased IgM, IgG induction) were noted in monkeys following a 27 month exposure at a dose of 0.005 mg/kg/day (Tryphonos et al., 1989).

GENOTOXICITY

Most genotoxicity assays of PCBs have been negative. The majority of microbial assays of PCB mixtures and various congeners show no evidence of mutagenic effects (U.S. EPA, 1980). The carcinogenic effects of PCBs have been studied in rats and mice. In a study conducted by Kimbrough et al. (1975) rats were exposed via the diet to 100 ppm Aroclor 1260 for 21 months. Hepatocellular carcinomas were observed in 26 of the 184 treated rats but only in one of the 173 controls. Neoplastic nodules were not found in controls but occurred in 144/184 of treated rats. The National Cancer Institute (NCI, 1978) reported a high incidence of hepatocellular proliferative lesions in male and female Fischer 344 rats fed three dose levels of Aroclor 1254 for 104-105 weeks, but, in part due to the small number of animals tested, carcinogenicity was not statistically demonstrable. Norback and Weltman (1985) fed a diet containing relatively high concentrations Aroclor 1260 (100 ppm for 16 months followed by 50 ppm for an additional 8 months) to Sprague-Dawley rats. In the PCB-exposed group, neoplastic nodules were observed at 12 months followed by trabecular carcinoma at 15 months and adenocarcinoma at 24 months (52/93). In the control rats, the incidence of hepatocellular neoplasms was low (1/81). Metastases to distant organs was not observed and mortality in the PCB exposed animals was not increased. The incidence of these slow-growing hepatocellular neoplasms was strikingly higher in female rats than in male rats.

PCBs (Clophen C) have also been shown to be cocarcinogenic. When PCBs were mixed with diethylnitrosamine (DENA), twice as many tumors were observed as were observed in animals treated with DENA alone (Brunn, 1987).

Based on the positive evidence for carcinogenicity of Aroclor 1254, Aroclor 1260, Kaneclor 500, and Clophen A-30 and A-60 in animals, along with adequate evidence in humans, the U.S. EPA has placed these PCBs in categroy B2 - probable human carcinogen (U.S. EPA, 1988).

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APPENDIX G

CLC Consulting Group
P.O. Box 9531, Fall River, Massachusetts 02720

Environmental Site Assessment

Vacant Property
South Terminal
New Bedford, Massachusetts

Prepared For:
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CHERYL

April 2006

Project No. 05-1029

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April 28, 2006

Steven Shuster
Shuster Corporation
4 Wright Street
New Bedford, Massachusetts 02740

Subject: **NEW BEFORD – Environmental Consulting Services**
Summary of Findings
Vacant Lot/South Terminal

Dear Mr. Shuster:

In accordance with your request, CLC Consulting Group (CLC) is pleased to submit this summary of findings relative to the limited Environmental Site Assessment (ESA) conducted at the approximate six acre parcel of land located between Wright Street and Potomska Street in the South Terminal of New Bedford, Massachusetts (herein, the site). Authorization to proceed on this project was granted in accordance with the signed agreement between the Shuster Corporation (herein the client) and CLC dated December 15, 2005.

1.0 Project Objective:
The objectives of the ESA were:

- To provide an opinion on whether current laboratory analytical data collected, surficial observations made and/or historical research information obtained by CLC indicated a release and/or threat of release at the site as defined by the Massachusetts Contingency Plan (MCP)(310 CMR 40.00); and
- To advise the Shuster Corporation relative to the implications under the MCP, if such release conditions existed.

2.0 Scope of Services:
The scope of services for this assessment consisted of the following activities:

- Review of selected federal and state regulatory agency databases for the subject site and area properties;
- Contact with local agencies to inquire about environmental conditions at the site and its vicinity;
- A review of the site history through selected ASTM Standard Historical Sources;

- A site reconnaissance to make surficial observations for evidence of a release of oil or hazardous materials (OHM) to the environment;
- Collect soil and groundwater from select locations on the site from monitoring wells installed as part of this assessment; and
- Prepare this summary of findings.

3.0 Site Location and General Characteristics:

The site encompasses a 7.75 acre vacant parcel of land located approximately 230 feet south of Wright Street and immediately west of the Acushnet River in the South Terminal of New Bedford, Massachusetts. Approximately ¾'s of an acre of the site is bordering vegetated wetlands and 1.0 acre is land under water. A 30 foot drainage easement is present in the northwest corner of the property. The site, which is located in a mixed use area of industrial, limited residential and undeveloped properties, is bordered to the north by industrial properties, to the west by vacant land which houses a radio tower, to the south by industrial properties and undeveloped land and to the east by the Acushnet River. The site is not located within a groundwater or surface water protected resource area such as a Zone II, Interim Wellhead Protection Area or a Zone A of a Class A surface water body. There are no known private drinking water wells within 500 feet of the site. A portion of the site is located within the 100-year flood plain for the Acushnet River. The site and its prominent natural features are shown on the New Bedford South, Massachusetts United States Geologic Services (USGS) topographic map included as Figure 1. The approximate site coordinates are 41°37'23" North latitude by 70°54'58" West longitude. Figure 2 is the MassGIS Map which shows the site location in relation to groundwater resource areas, fresh and saltwater wetlands, protected open space and areas of critical environmental concern. Figure 3 is an aerial map of the site and the immediate vicinity as it appeared in 2001. Since 2001 an industrial use building has been constructed immediately southwest of the subject site.

4.0 Site History:

A *Sanborn Fire Insurance Map Report* which included maps dating from 1888 to 1995 was reviewed to establish historical site uses. The report was prepared by Environmental Data Resources, Inc. for Metcalf & Eddy in April 1999. The maps indicate the Potomska Mill Complex encompassed the entire site from as early as 1888 to approximately 1935 when the complex was demolished. As indicated on the maps the petroleum gas machine, gasometer, coal bin, furnace and boilers which serviced the complex were located within the site limits. Maps dated 1950, 1990, 1993 and 1995 show the site as undeveloped. The *Sanborn Map Report* is included as Appendix A.

5.0 State Database Review:

The Massachusetts Department of Environmental Protection's (MADEP) Bureau of Waste Site Cleanup database which includes reportable releases under the Massachusetts Contingency Plan (MCP) was reviewed for this assessment. There were no listed sites within the subject site limits. The closest listed sites are Release Tracking Numbers (RTNs) 4-15490 and 4-17027 located directly to the south and southwest of the subject site on the northerly side of Blackmer Street. Both listed sites were formerly part of the New Bedford Standard Times Field property and historic property uses included millwork from the 1880's through 1924. On January 18, 2006 CLC met with Scott Alfonse, the City

Planner for New Bedford, to obtain pertinent information on these sites. The site locations are included as Figure 4 prepared by Metcalf & Eddy dated 1/18/00.

According to Mr. Alfonse assessments performed in 2000 on the site referred to as Lot 3/RTN 4-15490 detected elevated levels of Lead in soils located in the southwest corner of the site, approximately 300 feet from the subject site's southerly boundary. The site was Tier Classified and additional assessment has been recommended.

An assessment conducted in 2001 on the site referred to as Lots 1B & 2A/RTN 4-17027 detected Lead and PAHs in soils at levels exceeding reportable concentrations. The presence of Lead resulted in a notification to the MADEP while PAHs were determined to be attributable to the historic on-site use and storage of coal and were excempt from notification. An Immediate Response Action (IRA) was conducted which included the excavation and disposal of impacted surface soils resulting in a Class A-2 Response Action Outcome Statement (RAO) submittal to the MADEP in September 2003. A Class A-2 RAO applies to sites where a permanent solution has been achieved (i.e. remediation activity conducted), where levels of contaminants have not been reduced to background but an Activity Use Limitation (AUL) is not required to achieve a level of no significant risk. Based on the fact that contamination was limited at both sites to on-site soil, and groundwater was determined to flow a southeasterly direction, it is unlikely these sites would have an adverse impact on the subject site.

6.0 Subsurface Investigation Summary:

On December 29, 2005 Technical Drilling Services (TDS) of Sterling, Massachusetts performed six soil borings which were completed as groundwater sampling micro-wells throughout the site in the approximate locations as shown on Figure 3. The wells were installed in order to observe and sample soil and groundwater in an effort to assess for the possible presence of oil or hazardous materials. The drilling oversight and sampling was performed by Cheryl L. Coderre, Licensed Site Professional for CLC. With the exception of Boring 5, the borings were completed to an approximate depth of 12 feet below the ground surface. Groundwater was encountered at Borings 1-4 at approximately 5½ feet below the ground surface and at Borings 5-6 located in closest proximity to the Acushent River approximately 3 feet. The logs below indicate the soil conditions observed which were indicative of granular fill conditions:

Boring #1	Boring #2	Boring #3	Boring #4	Boring #5	Boring #6
0-5' Course sand, some gravel	0-5' Medium to course sand & stones	0-2' Brown sand, organics & roots	0-1' Organics	0-4' Black sand with organics	0-3' clean sand
5-10' Silty sand, some clay	5-10' Silty sand with stone, roots and pieces of coal	2-2½' Orange sand	1-3' Roots, black fill, brick	4-6' Brown sand with some silts & gravel	3' fill, wood
		2½-3½' Clean sand & gravel	3-5'Medium dark clean sand, shells		3-7' clean sand
Refusal @ 12'	Refusal @ 12'	3½-5' Black fill, sand & gravel, coal ash	6' Muck layer	Completed @ 6'	8' organics, black fill
		8-10' Gray silt & clay			
		Completed @ 12'	7-10' Gray sand with some silt		9-10' Silty sand

Soil Sampling Summary

On December 29, 2005 nine discreet soil samples were collected and analyzed from the six boring locations for the presence of oil and/or hazardous materials which could result from former site uses, specifically Extractable Petroleum Hydrocarbons with target Polycyclic Aromatic Hydrocarbons (MADEP Method EPH with PAHs), Volatile Petroleum Hydrocarbons with target analytes (MADEP Method VPH with targets), Dissolved RCRA Metals (RCRA 8), Polychlorinated Biphenyls (PCBs) and Cyanide. The parameters chosen for analysis were determined based on historic use of the site and information obtained on the general site area.

Soils were sampled from B-1 @ 0-5 feet, B-2 @ 0-5 feet and 5-10 feet, B-3 @ 0-5 feet, B-4 @ 1-3 feet and 6 feet, B-5 @ 0-4 feet and B-6 @ 2-3 feet and 8 feet. Soils were collected at varying depths throughout the site from soil layers observed to contain fill and/or debris rather than layers appearing to consist of clean material.

Analytical Soil Result Summary

The analytical results were compared to site applicable reportable concentrations as established by the Massachusetts Department of Environmental Protection (MADEP), specifically category RCS-2. The most conservative reporting category, RCS-1, applies to soil located 1) at or within 500 feet of a residential dwelling, a residentially-zoned property, school, playground, recreational area or park or 2) within the geographic boundaries of a groundwater resource area. Reporting category RCS-2 applies to all samples not obtained within a RCS-1 category.

When oil or hazardous materials are present in levels that exceed reportable concentrations, a release as defined by the MADEP's Massachusetts Contingency Plan (MCP) exists which requires notification to the Department and the implementation of specific response actions. With the exception of the following PAH compounds, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene and Dibenzo(a,h)anthracene, the analytical soil results were below the applicable reportable concentrations. The above referenced PAH compounds were detected at levels exceeding the applicable reportable concentrations at five of the six sample locations constituting a release as defined by the regulations, however it qualifies as a release which is exempt from notification pursuant to 310 CMR 40.0317 which are releases of oil and/or hazardous materials related to coal or coal ash. This justification is based on the presence of coal and coal ash observed in the on-site soils as well as the historical data which indicated that the process of coal gasification occurred within the site limits.

The soil results as well as the reporting concentrations and average concentrations in soil containing coal ash associated with fill material are shown on Table 1. The laboratory analytical data reports are included as Appendix B.

Asbestos Assessment

The MADEP Bureau of Waste Site Cleanup is in the process of promulgating regulations which will require notification and subsequent response actions for specific conditions when asbestos is present in on-site soils. Asbestos is an environmental contaminant sometimes encountered at previously developed sites. It is highly hazardous to human health when inhaled, but it presents no risk when there is no route of exposure (e.g. it is buried at depth in soil or located under some type of barrier).

Table 1
Soil Sampling Results

Sample Location	B-1 0-5'	B-2 0-5'	B-2 5-10'	B-3 0-5'	B-4 1-3'	B-4 6'	B-5 0-4'	B-6 2-3'	B-6 8'	MCP	DEP
Sample Date	12/29/2005	12/29/2005	12/29/2005	12/29/2005	12/29/2005	12/29/2005	12/29/2005	12/29/2005	12/29/2005	RCS-2	Background
Parameter											
Extractable Petroleum Hydrocarbons											
C9-C18 Aliphatic Hydrocarbons	<10	N/S	<10	<10	N/S	<10	<10	N/S	<10	2,500	N/A
C19-C36 Aliphatic Hydrocarbons	21	N/S	10	10	N/S	<10	11	N/S	13	5,000	N/A
C11-C22 Aromatic Hydrocarbons	57	N/S	210	28	N/S	<10	53	N/S	40	2,000	N/A
Targeted PAH's											
Naphthalene	<0.4	<2.0	<2.0	<0.4	<2.0	<0.4	<0.4	<0.7	14	1,000	1.0
2-Methylnaphthalene	<0.4	N/S	<2.0	<0.4	N/S	<0.4	<0.4	N/S	<0.4	1,000	1.0
Acenaphthylene	<0.4	<2.0	<2.0	<0.4	<2.0	<0.4	<0.4	<0.7	<0.4	1,000	1.0
Acenaphthene	<0.4	<2.0	<2.0	<0.4	<2.0	<0.4	<0.4	<0.7	<0.4	2,500	2.0
Fluorene	<0.4	<2.0	<2.0	<0.4	<2.0	<0.4	<0.4	<0.7	<0.4	2,000	2.0
Phenanthrene	2.6	6.0	2.1	<0.4	13	<0.4	1.4	2.1	1.1	100	20
Anthracene	0.6	3.0	<2.0	<0.4	3.0	<0.4	<0.4	<0.7	<0.4	2,500	4.0
Fluoranthene	3.1	23	17	0.8	17	<0.4	2.4	3.0	<0.4	1,000	10
Pyrene	3.7	19	19	0.8	16	<0.4	3.3	2.8	<0.4	2,000	20
Benzo(a)anthracene	1.4	13	11	<0.4	8.0	<0.4	1.5	1.6	<0.4	1.0	9.0
Chrysene	1.5	11	8.8	0.5	7.0	<0.4	1.7	1.5	<0.4	10	7.0
Benzo(b)fluoranthene	1.3	14	7.6	0.6	8.0	<0.4	2.7	1.9	0.5	1.0	8.0
Benzo(k)fluoranthene	1.2	7.0	9.6	0.4	4.0	<0.4	1.2	<0.7	<0.4	10	4.0
Benzo(a)pyrene	1.5	13	11	0.4	7.0	<0.4	2.1	1.4	<0.4	0.7	7.0
Indeno(1,2,3-cd)pyrene	1.0	4.0	7.6	<0.4	3.0	<0.4	1.5	<0.7	<0.4	1.0	3.0
Dibenzo(a,h)anthracene	<0.4	<2.0	<2.0	<0.4	<2.0	<0.4	<0.4	<0.7	<0.4	0.7	1.0
Benzo(g,h,i)perylene	0.9	4.0	6.0	<0.4	2.0	<0.4	1.7	<0.7	<0.4	2500	3.0
Volatile Petroleum Hydrocarbons											
C5-C8 Aliphatic Hydrocarbons	<3.0	N/S	<3.0	<3.0	N/S	11	<3.0	N/S	<25	400	N/A
C9-C12 Aliphatic Hydrocarbons	<1.0	N/S	<1.0	<1.0	N/S	23	<1.0	N/S	190	1,000	N/A
VPH Analytes											
MTBE	<0.3	N/S	<0.3	<0.3	N/S	<0.8	<0.3	N/S	<2.0	200	N/A
Benzene	<0.3	N/S	<0.3	<0.3	N/S	<0.8	<0.3	N/S	6.0	60	N/A
Toluene	<0.3	N/S	<0.3	<0.3	N/S	<0.8	<0.3	N/S	<2.0	500	N/A
Ethylbenzene	<0.3	N/S	<0.3	<0.3	N/S	<0.8	<0.3	N/S	23	500	N/A
m- & p-Xylenes	<0.3	N/S	<0.3	<0.3	N/S	<0.8	<0.3	N/S	20	500	N/A
o-Xylene	<0.3	N/S	<0.3	<0.3	N/S	<0.8	<0.3	N/S	14	500	N/A
Naphthalene	<0.3	<2.0	<0.3	<0.3	<2.0	<0.8	<0.3	<0.7	89	1000	1.0
Total Metals											
Arsenic	<5.3	N/S	<5.3	<5.2	N/S	<12	<5.6	N/S	<20	30	20
Barium	21	N/S	19	19	N/S	50	22	N/S	79	2,500	50
Cadmium	<0.26	N/S	<0.27	<0.26	N/S	<0.62	<0.28	N/S	<1.0	80	3.0
Chromium	7.2	N/S	6.2	6.9	N/S	21	8.5	N/S	32	2,500	40
Lead	19	78	16	20	140	91	41	230	160	600	600
Mercury	0.26	N/S	0.16	<0.11	N/S	<0.24	0.16	N/S	<0.38	60	1.0
Selenium	<10	N/S	<11	<10	N/S	<25	<11	N/S	<41	2,500	1.0
Silver	<1.0	N/S	<1.1	<1.6	N/S	<3.7	<1.7	N/S	<6.2	200	5.0
Total Cyanide	<11	<11	<10	<10	<11	<16	<11	<12	<12	100	N/A
Polychlorinated Biphenyls (PCBs)	0.77	N/S	<0.7	<0.7	N/S	<0.7	0.72	N/S	<0.7	2.0	N/A

Notes:

1. N/S - Not sampled
2. Shaded results above reportable concentrations
3. N/A – Not applicable
4. DEP Background - Levels of PAHs and metals in soil
5. Units reported as mg/kg (ppm)

Accordingly asbestos must be properly managed when either it is brought to the ground surface during excavation or when its cover is disturbed.

As part of this assessment CLC collected a single soil sample for asbestos screening from Boring Location #6 due to visual evidence of asbestos containing material (ACM) at a depth below the ground surface of 2 to 3 feet. The laboratory results, which detected positive for the presence of asbestos, are included as Appendix B. This was the only location, of the locations investigated, where suspect ACM was observed to be present. Although ACM was not observed to be present on the ground surface, actual sampling and analysis of surface soils was not conducted and therefore ACM on the surface cannot be ruled out. Based on the limited nature of this asbestos assessment it is unclear whether "asbestos containing debris" has been improperly disposed of in the ground at the site or if unconsolidated asbestos fibers in soil are present. In either case it is our opinion that further investigation in this regard would be necessary prior to any site disturbance for proposed development.

Groundwater Sampling and Result Summary

Groundwater underlies the site at the shallow depths ranging from approximately 3–6 feet below the ground surface. Groundwater was sampled from three of the on-site wells to assess for the presence of contamination by analyzing for MADEP Method EPH with PAHs, MADEP Method VPH with targets, RCRA 8, PCBs and Cyanide. No visible sheen or noxious odors were noted during the sampling round conducted on January 6, 2006. The analytical results were compared to site applicable reportable concentrations, specifically category RCGW-2. The more conservative reporting category RCGW-1 applies to groundwater located within any of the following aquifer protection areas which are not applicable:

a) sites located within Zone II for a public water supply;
b) sites located within the Interim Wellhead Protection Area for a public water supply;
c) sites located within a Zone A of a Class A surface water body used as a public water supply;
d) sites located within 500 feet of a private water supply.

The reported levels for all parameters tested on the site groundwater were not above applicable RCGW-2 reportable concentrations.

Findings and Conclusions:

Groundwater monitoring wells and soil borings were installed in six locations throughout the site to inspect and analyze groundwater and soil for the possible presence of oil and/or hazardous materials resulting from former site and/or general area uses. The on-site soils were observed to consist of granular fill materials containing debris, coal, coal ash and wood. The contaminants detected during the assessment were limited to the presence of PAH compounds which are typically formed during the incomplete combustion of organic material including wood and coal. Accordingly, the DEP has established background levels of PAHs in soil found in areas with fill material which are not indicative of pristine conditions. Therefore it is the opinion of CLC that a release to the environment as defined by the MCP requiring notification and subsequent response actions does not exist.

While such conditions described above are not subject to regulation by the MADEP, the Department encourages parties to mitigate potential exposures whenever possible. During future development of the site such mitigation measures could include:

- providing clean soil (down to a depth of 3 feet) in residential settings (not applicable), and
- providing clean corridors for utility lines (applicable during future site development).

It should also be noted that a structural assessment should be conducted prior to any site development based on the extensive quantities of fill material expected to be present. Also a detailed assessment for the presence of Asbestos Containing Materials should be conducted prior to any site development to ensure proper management and disposal of excavated soils, if applicable, and to assess and minimize any potential human health risks.

If you have any questions regarding the information accompanying this summary, please feel free to contact me at 508.353.1318.

Sincerely,

CLC Consulting Group

Cheryl L. Coderre, LSP
Principal

APPENDICES:	Appendix A –	Sanborn Map Report
	Appendix B –	Rhode Island Analytical Laboratories, Analytical Data Reports
FIGURES:	Figure 1 –	USGS Site Locus
	Figure 2 –	Mass GIS Map
	Figure 3 -	2001 Aerial Map
	Figure 4 -	2000 Metcalf & Eddy Map

List of Figures

Figure 1 – USGS Locus Map
Figure 2 – MassGIS Map
Figure 3 – 2001 Aerial Map
Figure 4 – 2000 Metcalf & Eddy Map

Scale: 1:25,000

N

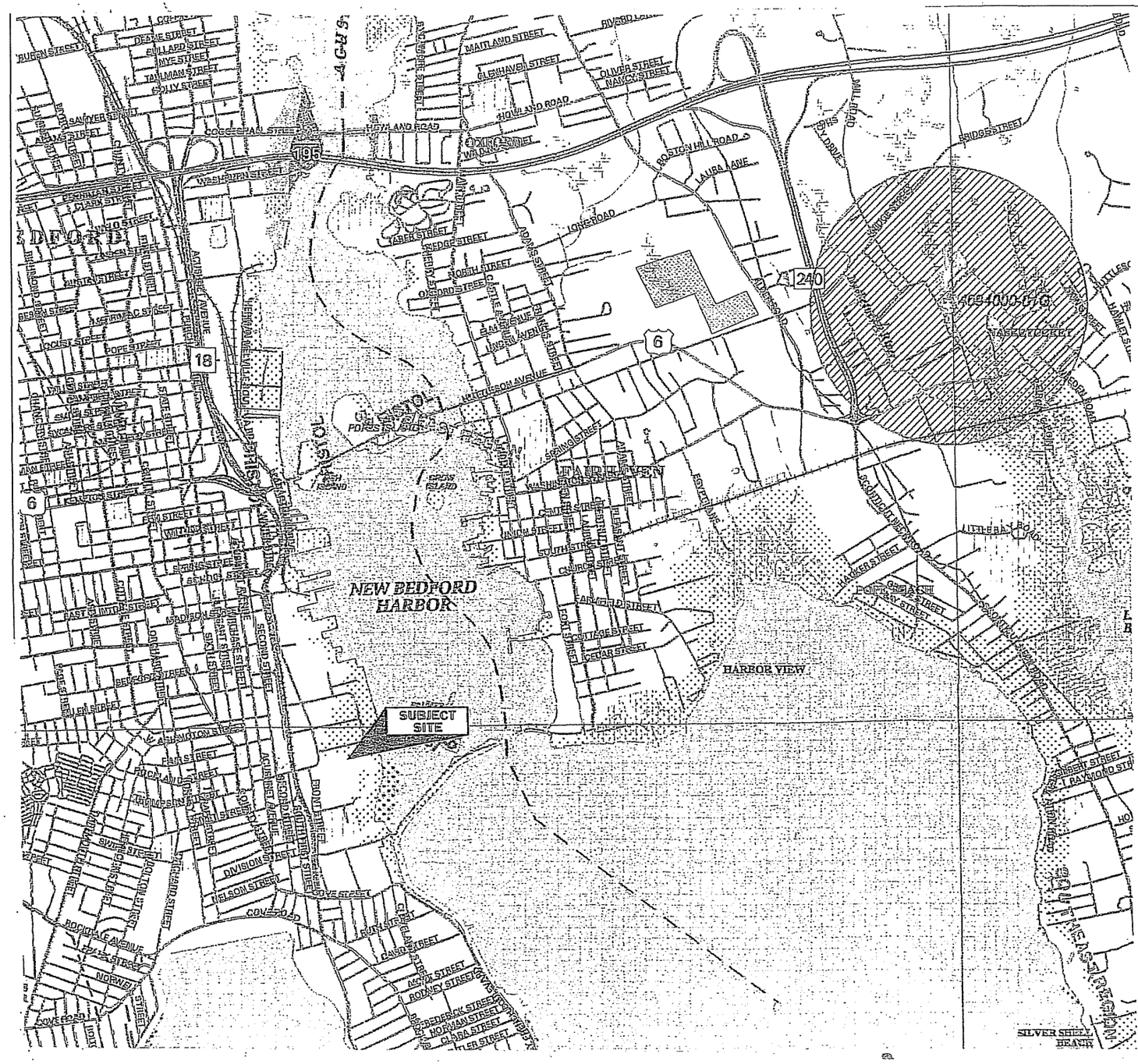
Quadrangle:
New Bedford,
North

Figure 1

Client:

Shuster Corp
4 Wright Street
New Bedford, Massachusetts

CLC Consulting Group
P.O. Box 9531
Fall River, Massachusetts



LEGEND:

- Non Potential Drinking Water Source Area: Medium Yield
- Non Potential Drinking Water Source Area: High Yield
- Potentially Productive Medium Yield Aquifer
- Potentially Productive High Yield Aquifer
- EPA Designated Sole Source Aquifer
- DEP Approved Wellhead Protection Area (Zone 2)
- DEP Interim Wellhead Protection Area (IWPA)
- DEP Surface Water Supply Zone A
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- Limited Access Highway
- Multi-lane Hwy, not Limited Access
- Other Numbered Highway
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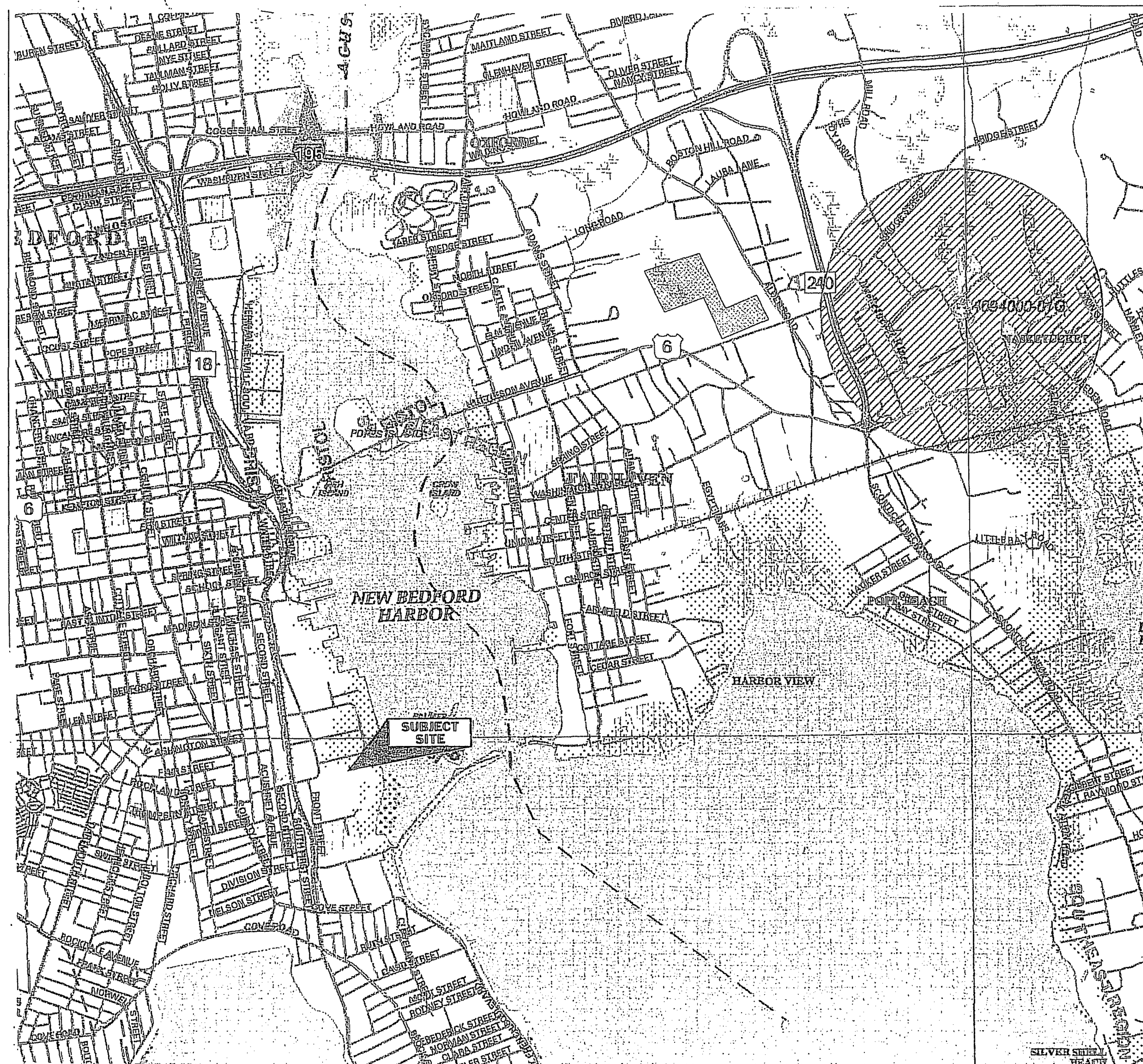
- Minor Street or Road
- Track
- Trail
- Train
- Powerline
- Pipeline
- Municipal Boundary
- County Boundary
- Major Drainage Basin
- Sub Drainage Basin
- Zone2 or IWPA Boundary
- Aqueduct
- Streams: Perennial, Intermittent
- Public Water Supplies: Surface, Ground, Non Comm.

REFERENCE: MA DEP– BUREAU OF WASTE SITE CLEANUP, NEW BEDFORD, NORTH QUAD, 2006, SCALE 1:25,000.

FIGURE 2 – MASS GIS MAP

VACANT LOT

NEW BEDFORD, MASSACHUSETTS



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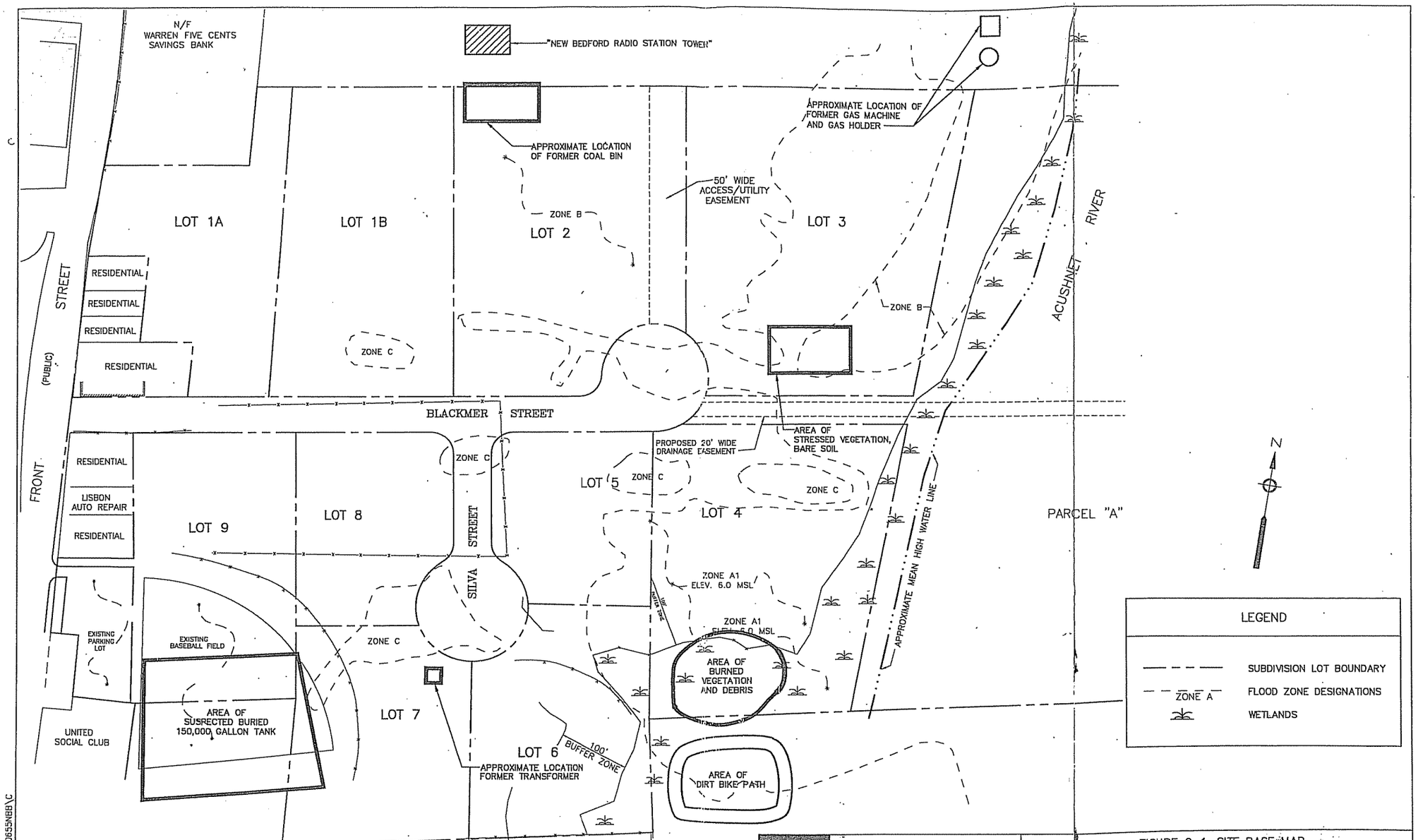


SOURCE OF BASEMAP: (SITEC, 1998)
GRADE/UTILITY PLAN–SOUTH TERMINAL
OCTOBER 21, 1998

Note:
All BTSA locations are approximated based on GPS data obtained by Metcalf & Eddy.

M&E AQUA ALLIANCE

METCALF & EDDY

FIGURE 2–1. SITE BASE MAP
FALL 1999
STANDARD TIMES FIELD
NEW BEDFORD, MASSACHUSETTS

SCALE: 1"=120' | 1/18/00 | CZNBB001

20655NBB\C
STBB - 08-04-03

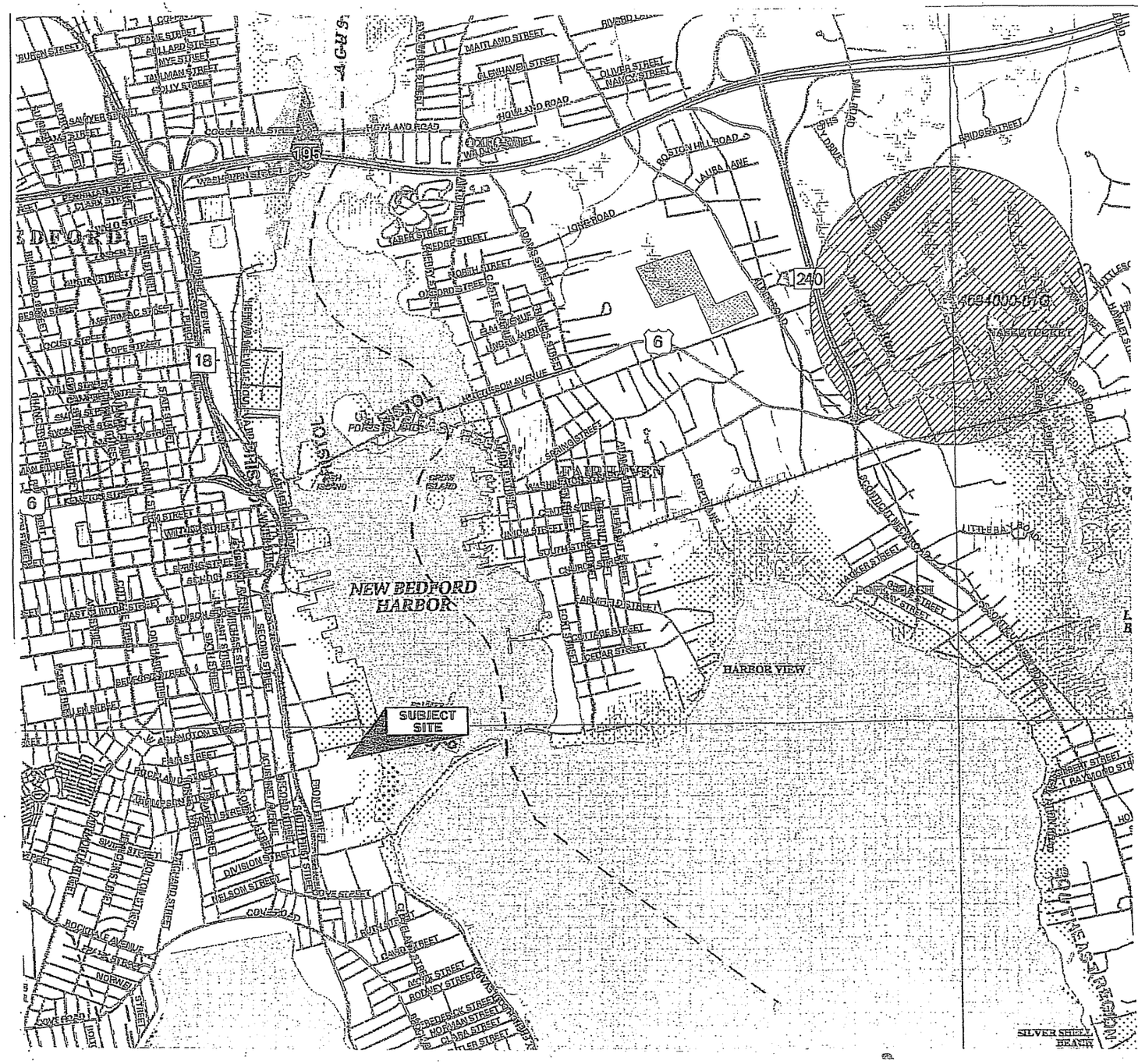
CLC Consulting Group
P.O. Box 9531
Fall River, Massachusetts 02720

Scale: 1"=200'

Figure 3 - Aerial Map
Shuster Corporation
South Terminal
New Bedford, Massachusetts

List of Appendices

Appendix A – Sanborn Map Report
Appendix B – Analytical Data Reports



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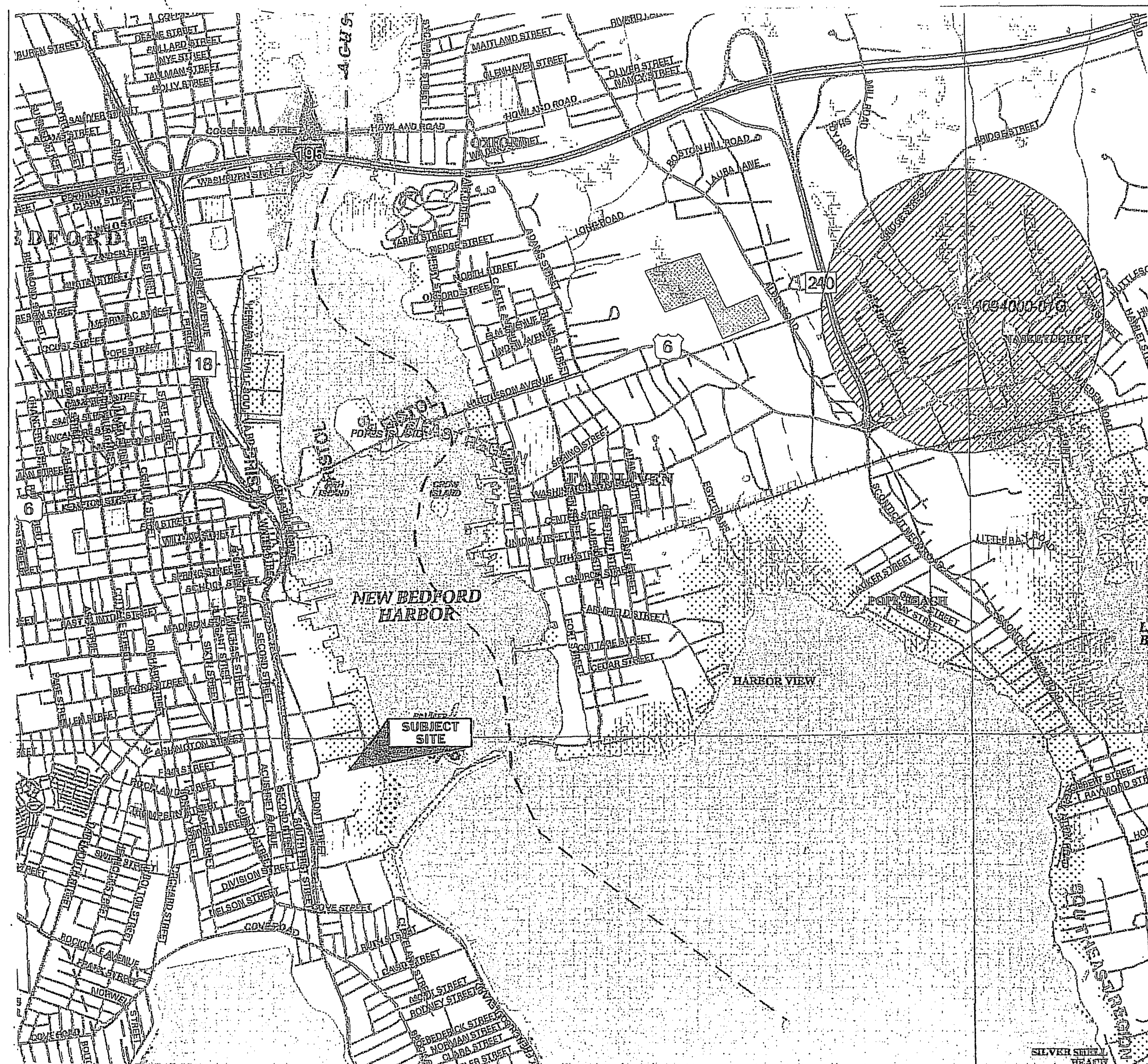

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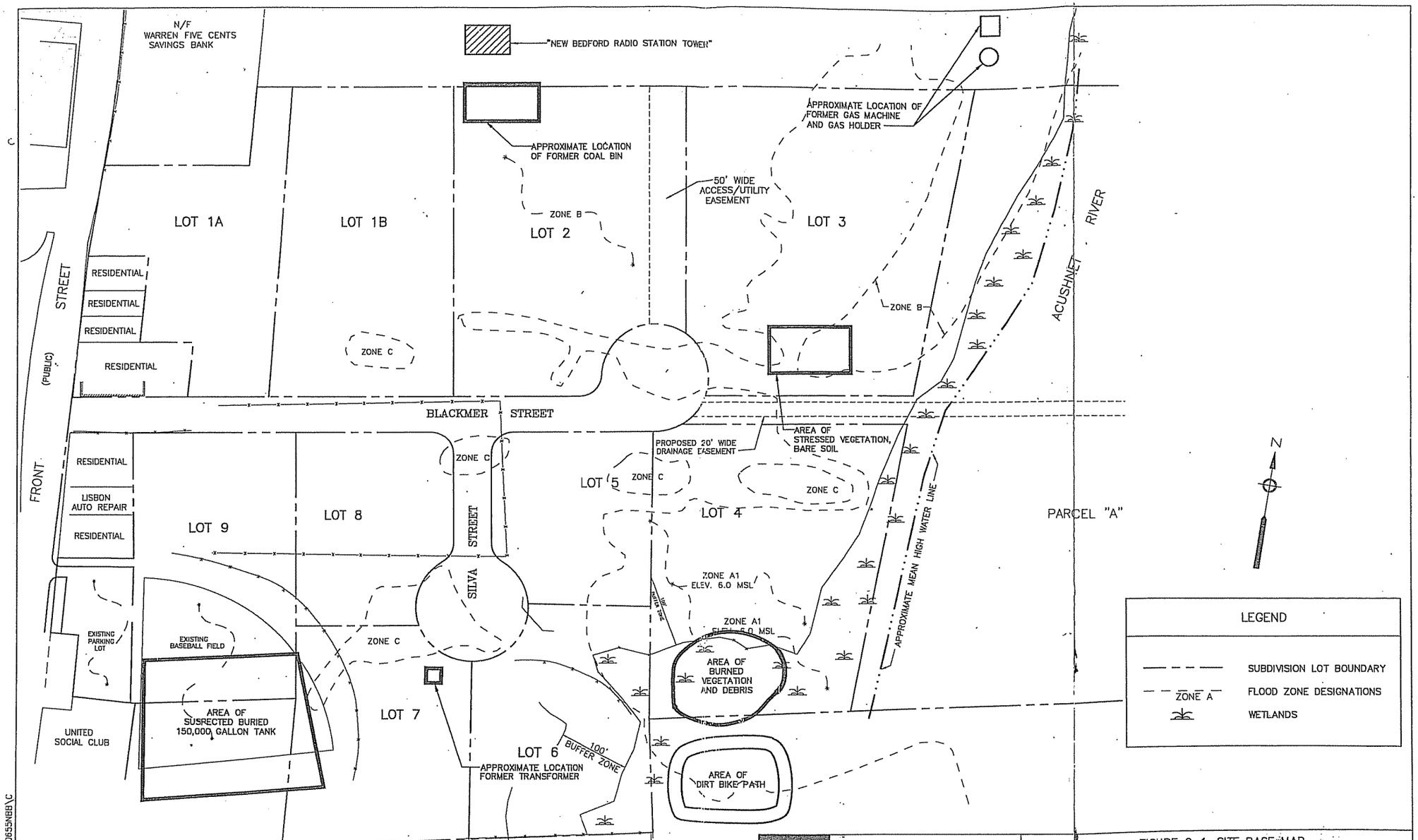
VACANT LOT

NEW BEDFORD, MASSACHUSETTS



SOURCE OF BASEMAP: (SITEC, 1998)
GRADE/UTILITY PLAN–SOUTH TERMINAL
OCTOBER 21, 1998

Note:
All BTSA locations are approximated based on GPS data obtained by Metcalf & Eddy.

M&E AQUA ALLIANCE

METCALF & EDDY

FIGURE 2–1. SITE BASE MAP
FALL 1999
STANDARD TIMES FIELD
NEW BEDFORD, MASSACHUSETTS

SCALE: 1"=120' | 1/18/00 | CZNBB001

20655NBB\C
STBB - 08-04-03

CLC Consulting Group
P.O. Box 9531
Fall River, Massachusetts 02720

Scale: 1"=200'

Figure 3 - Aerial Map
Shuster Corporation
South Terminal
New Bedford, Massachusetts

Environmental Data Resources, Inc.

an edr company

"Linking Technology with Tradition"

Sanborn™ Map Report

Ship to: Neil Thurber
Metcalf & Eddy, Inc.
30 Harvard Mill Square
Wakefield, MA 01880

1241585KJG 781-246-5200

Order Date: 4/15/1999 **Completion Date:** 04/16/1999
Inquiry #: 359293.2S
P.O. #: 020655-0002-001
Site Name: Standard Times Field
Address: Front Street/Blackmer Street
City/State: New Bedford, MA 02740
Cross Streets:

Based on client-supplied information, fire insurance maps for the following years were identified

1888 - 1 - map
1893 - 1 - map
1906 - 2 - maps
1924 - 2 - maps
1950 - 2 - maps
1990 - 2 - maps
1992 - 2 - maps
1993 - 2 - maps
1995 - 2 - maps

Total Maps: 16

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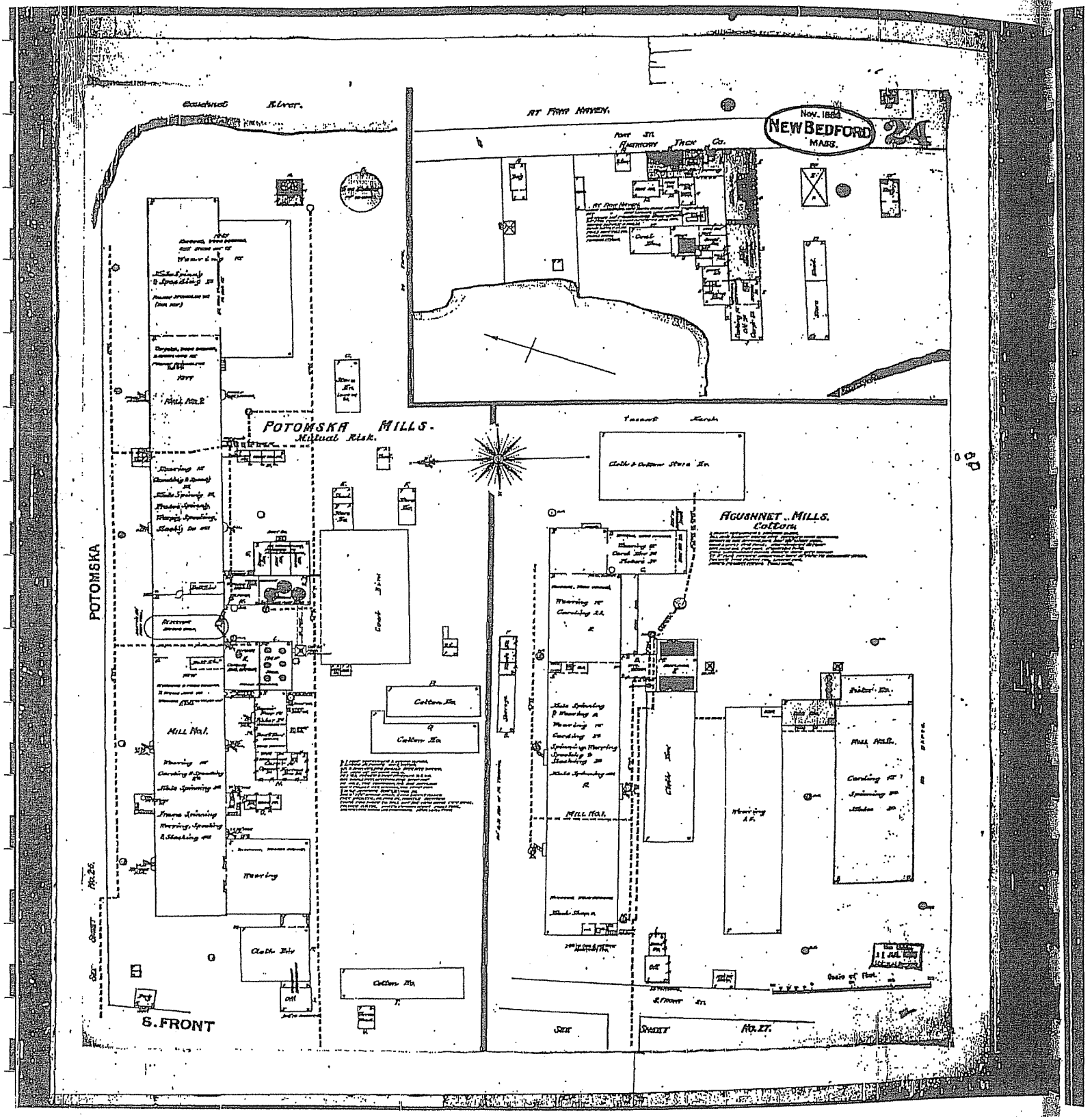

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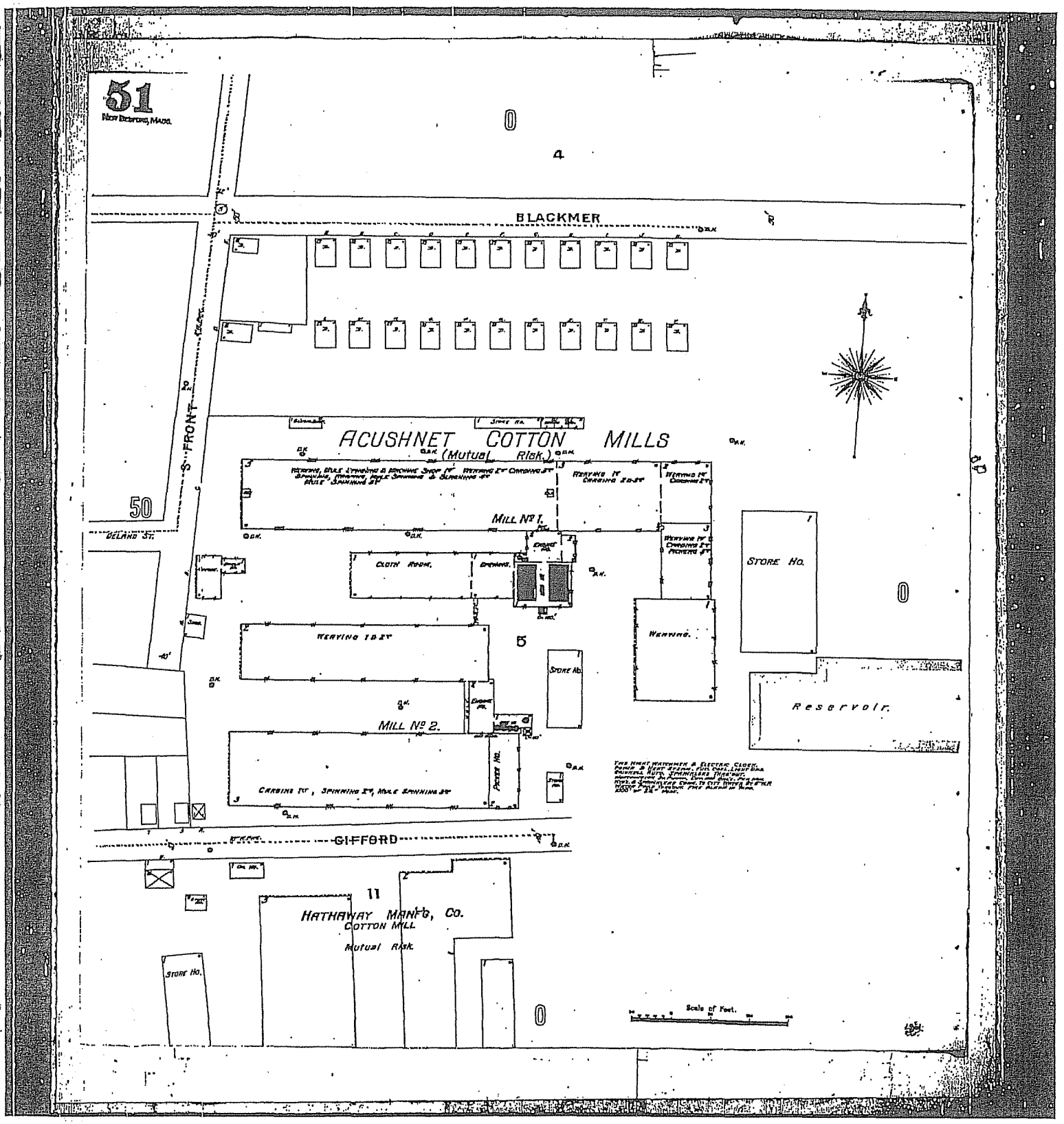

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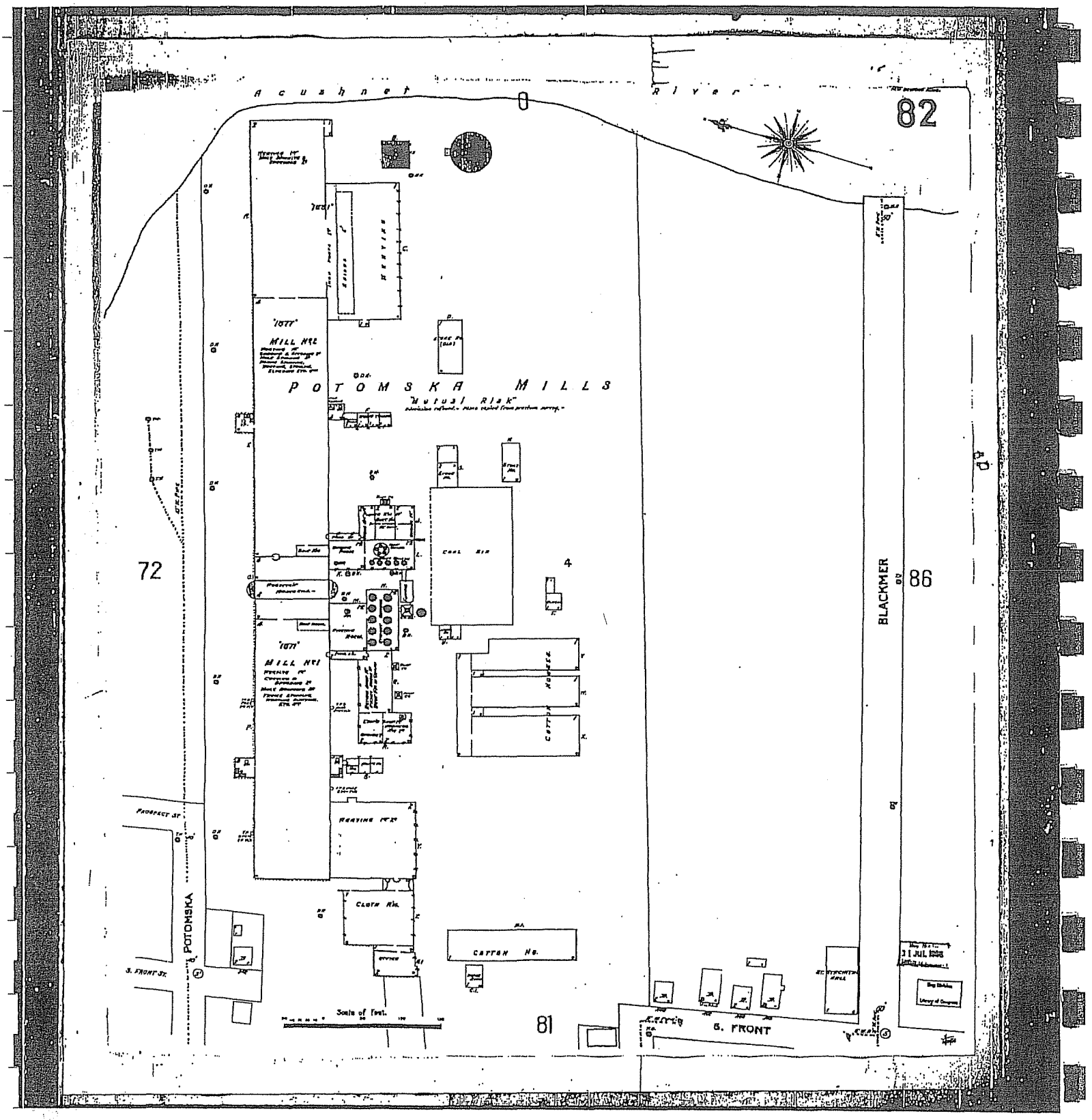

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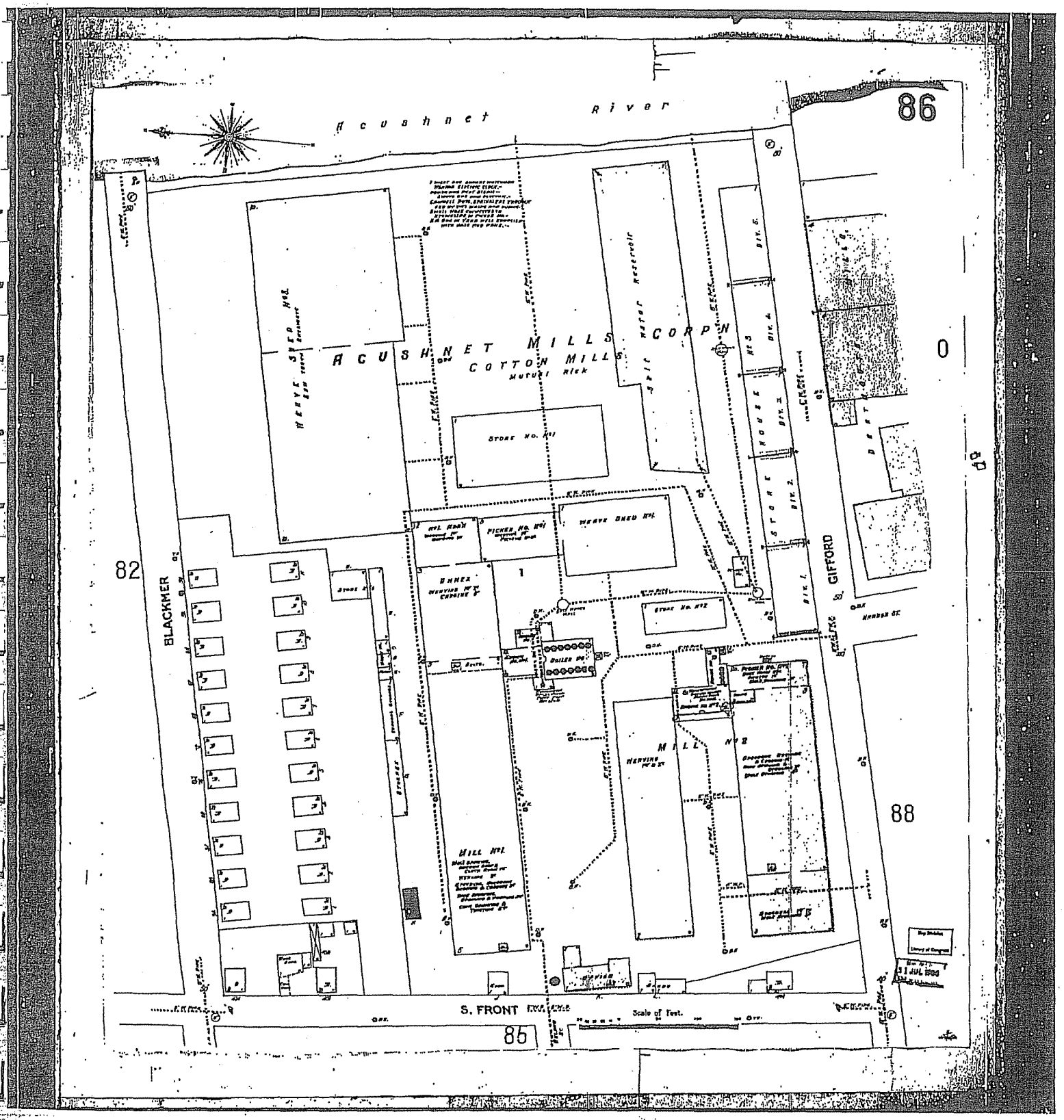

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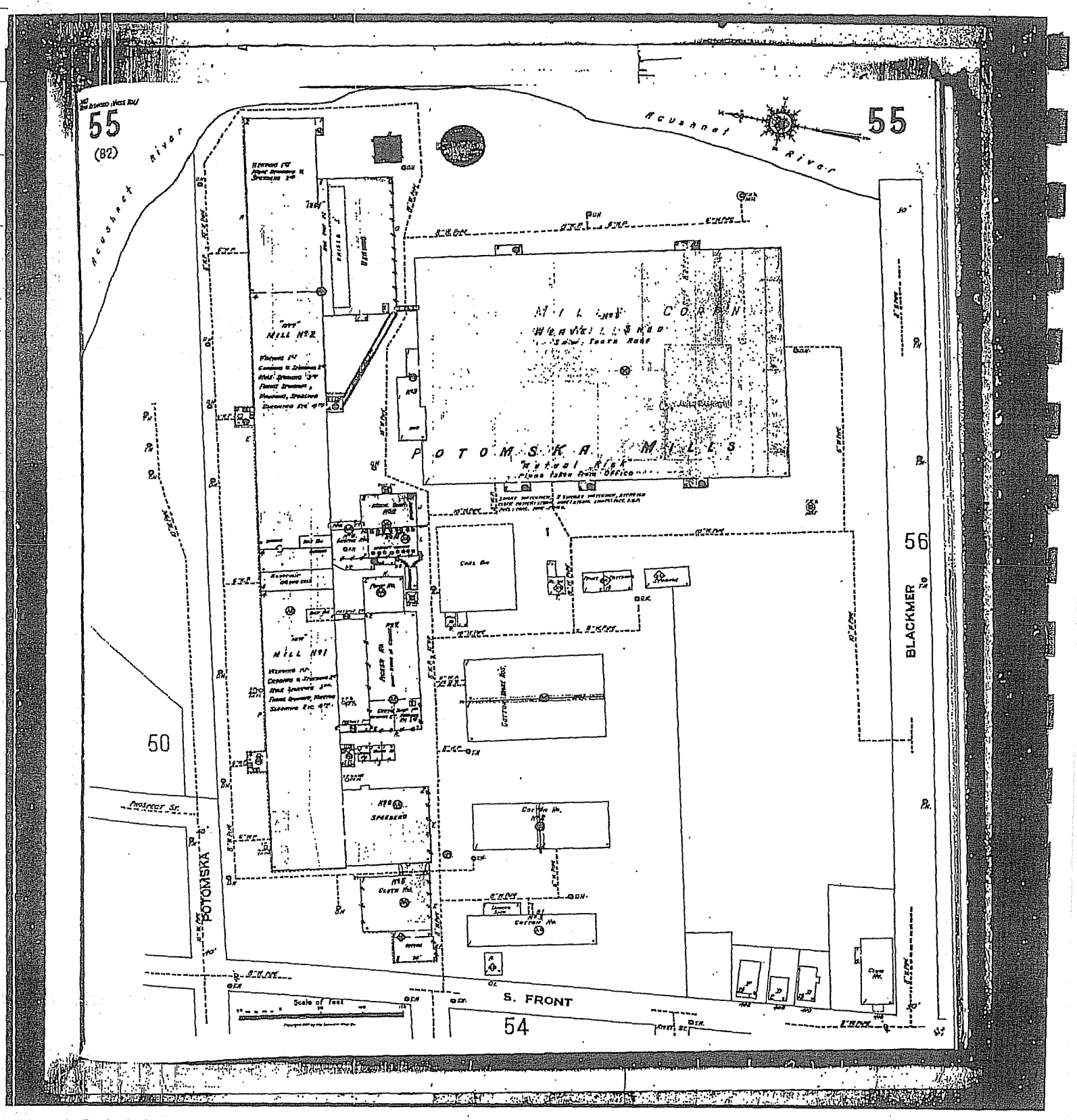

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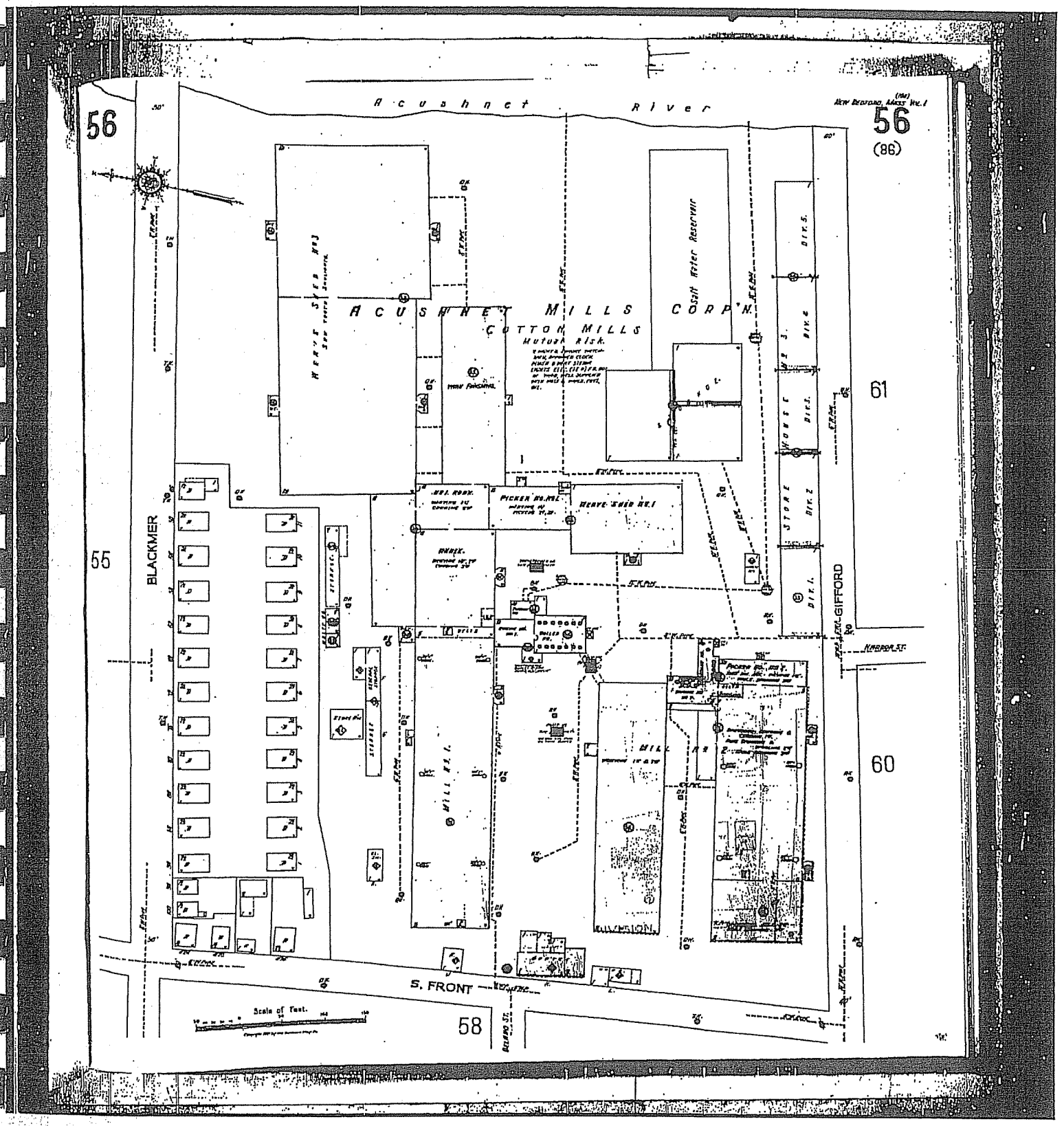

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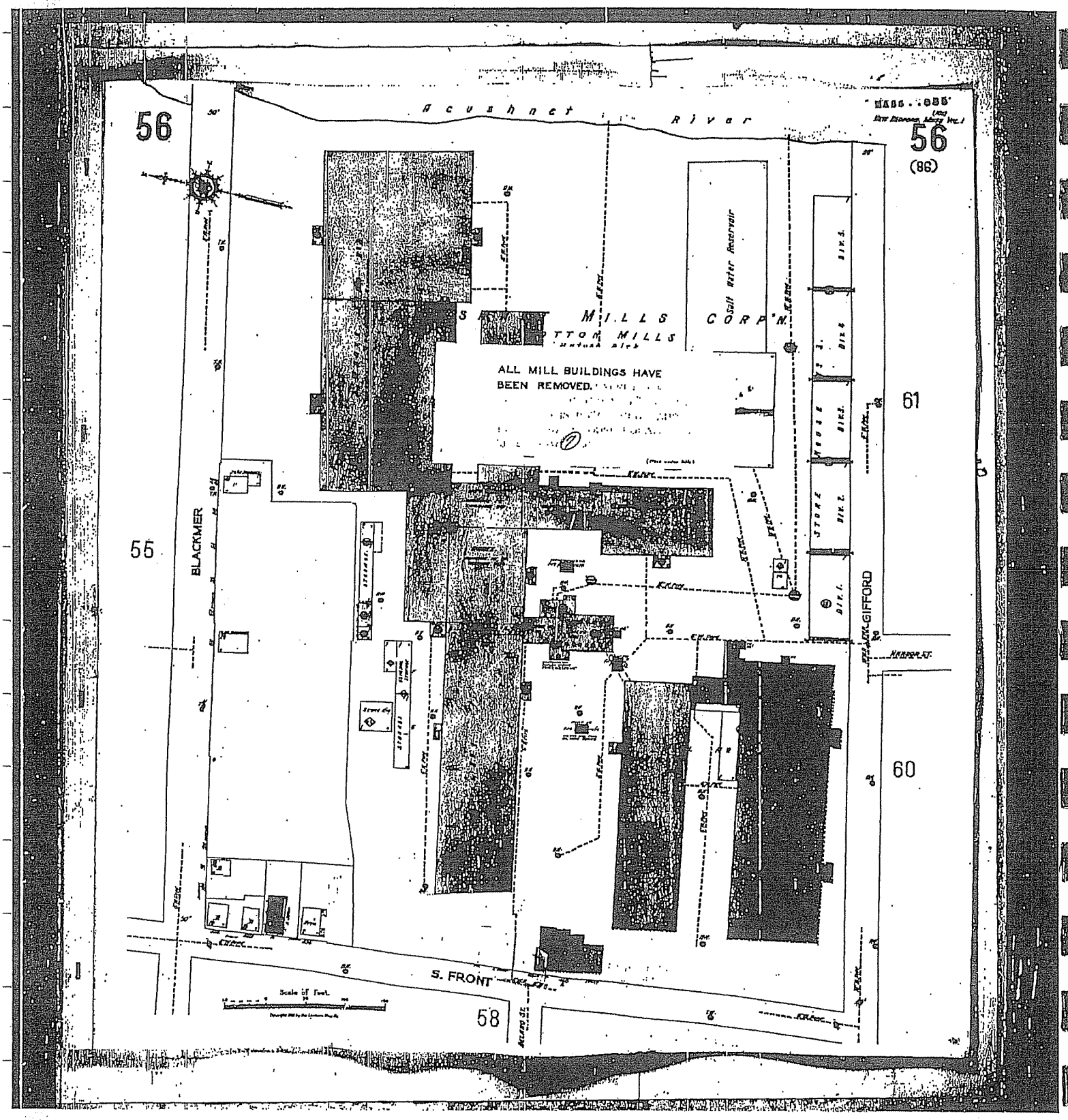

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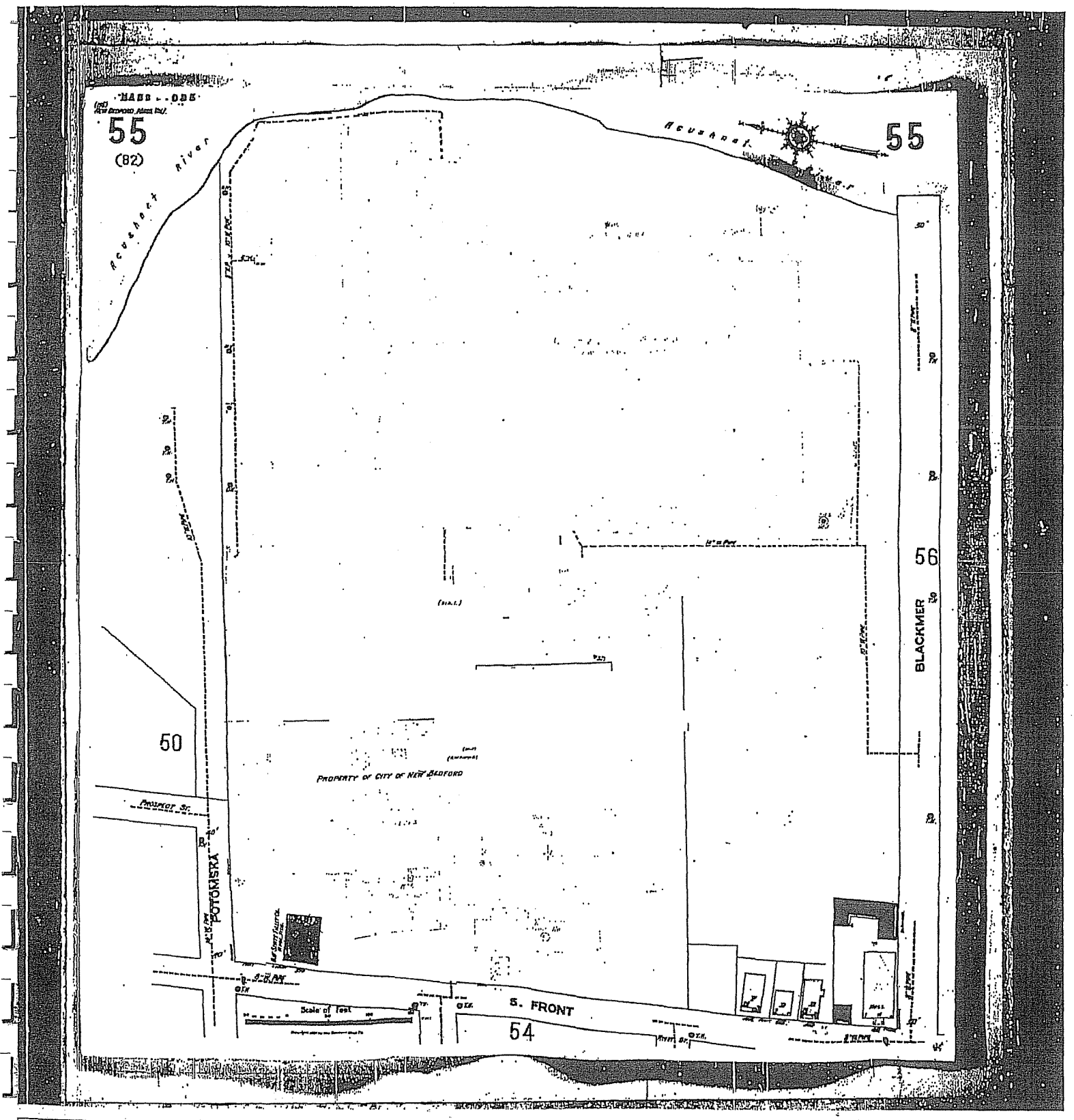

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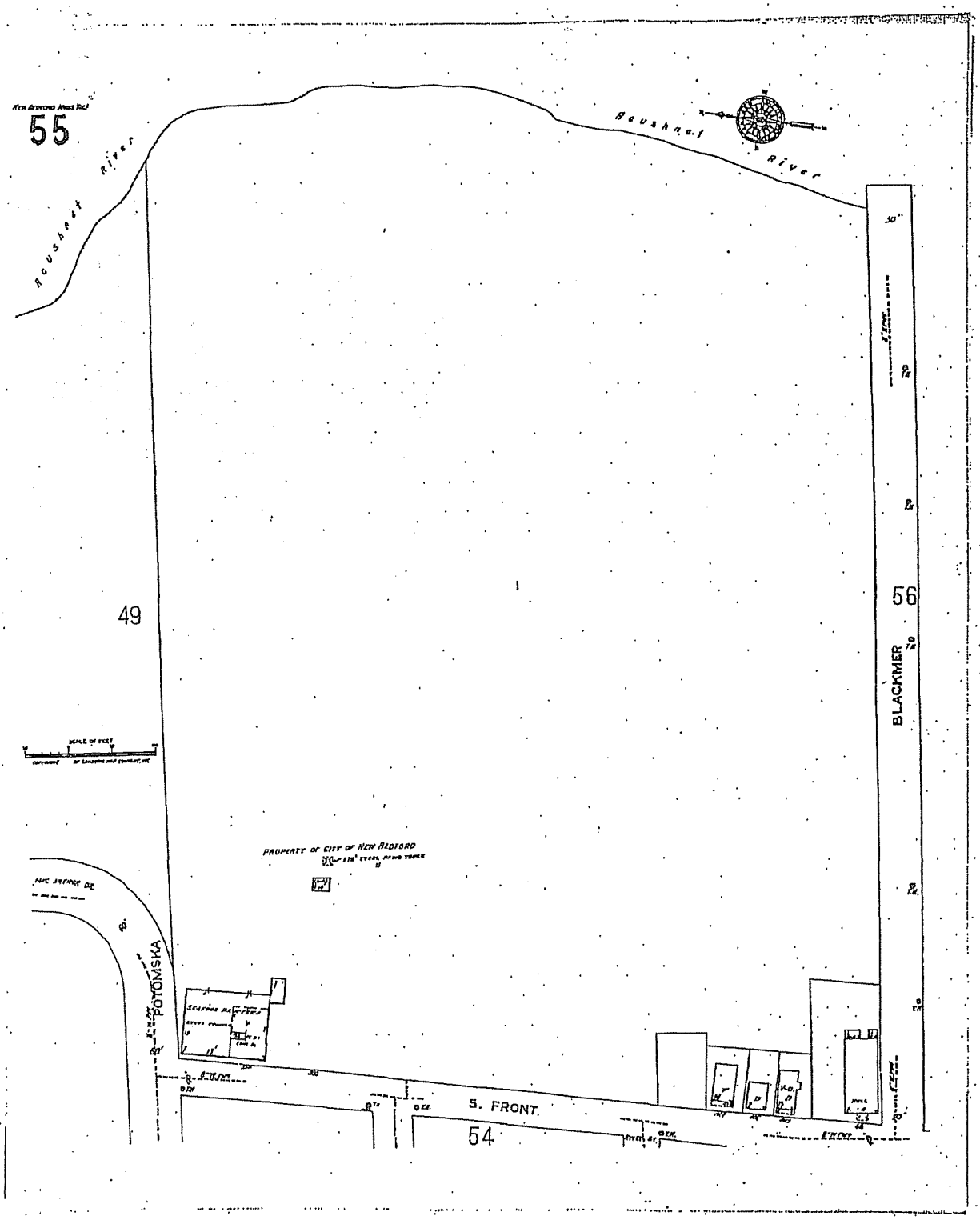

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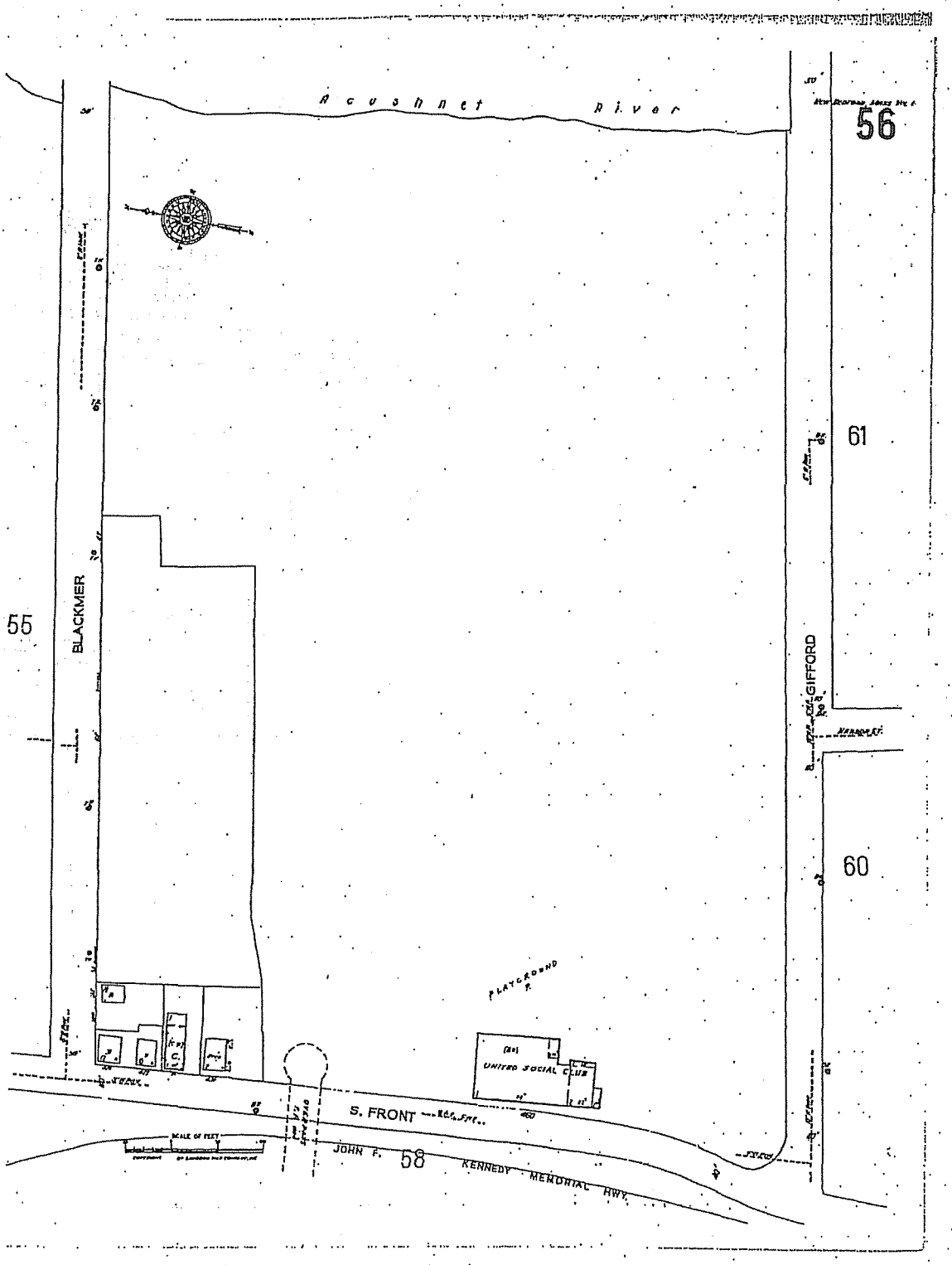

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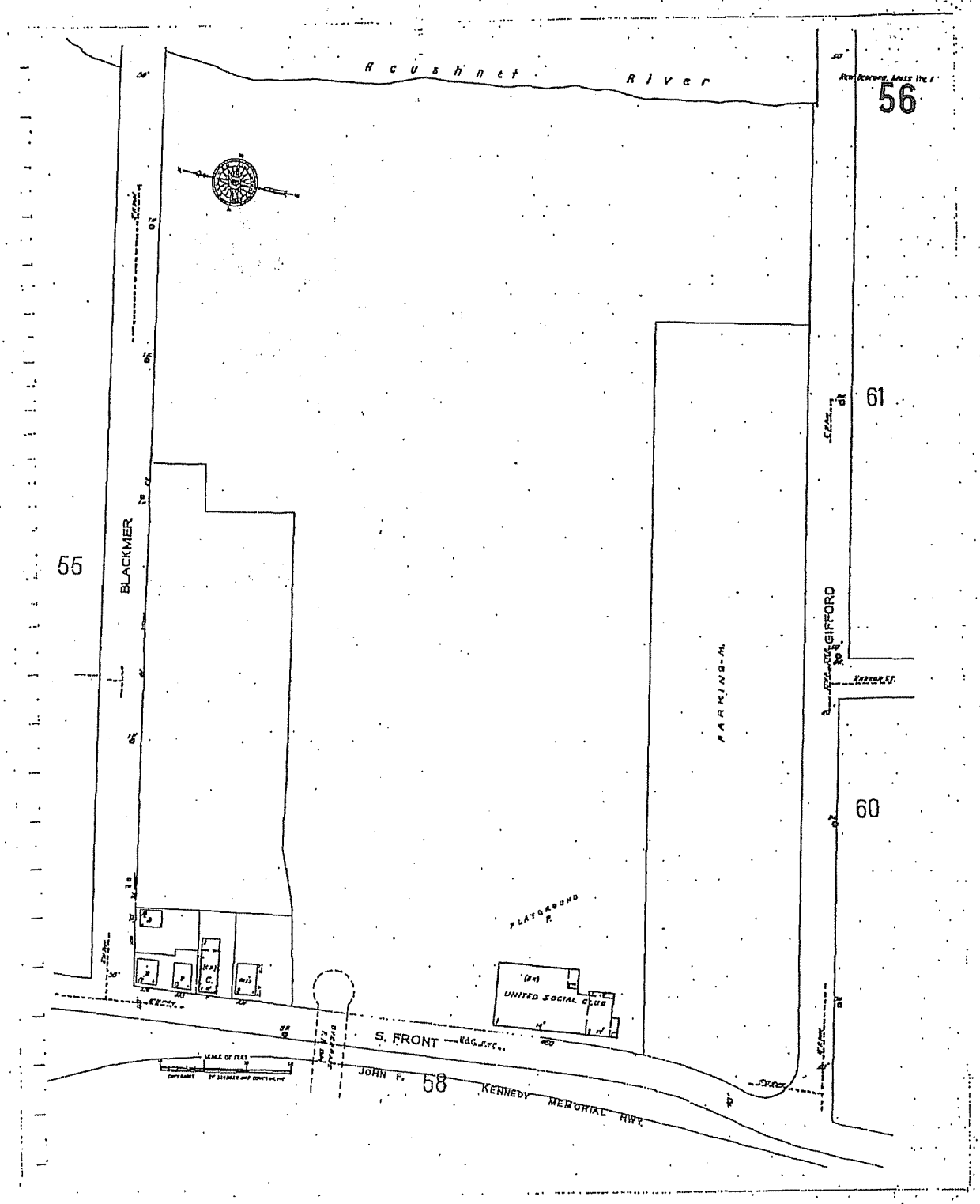

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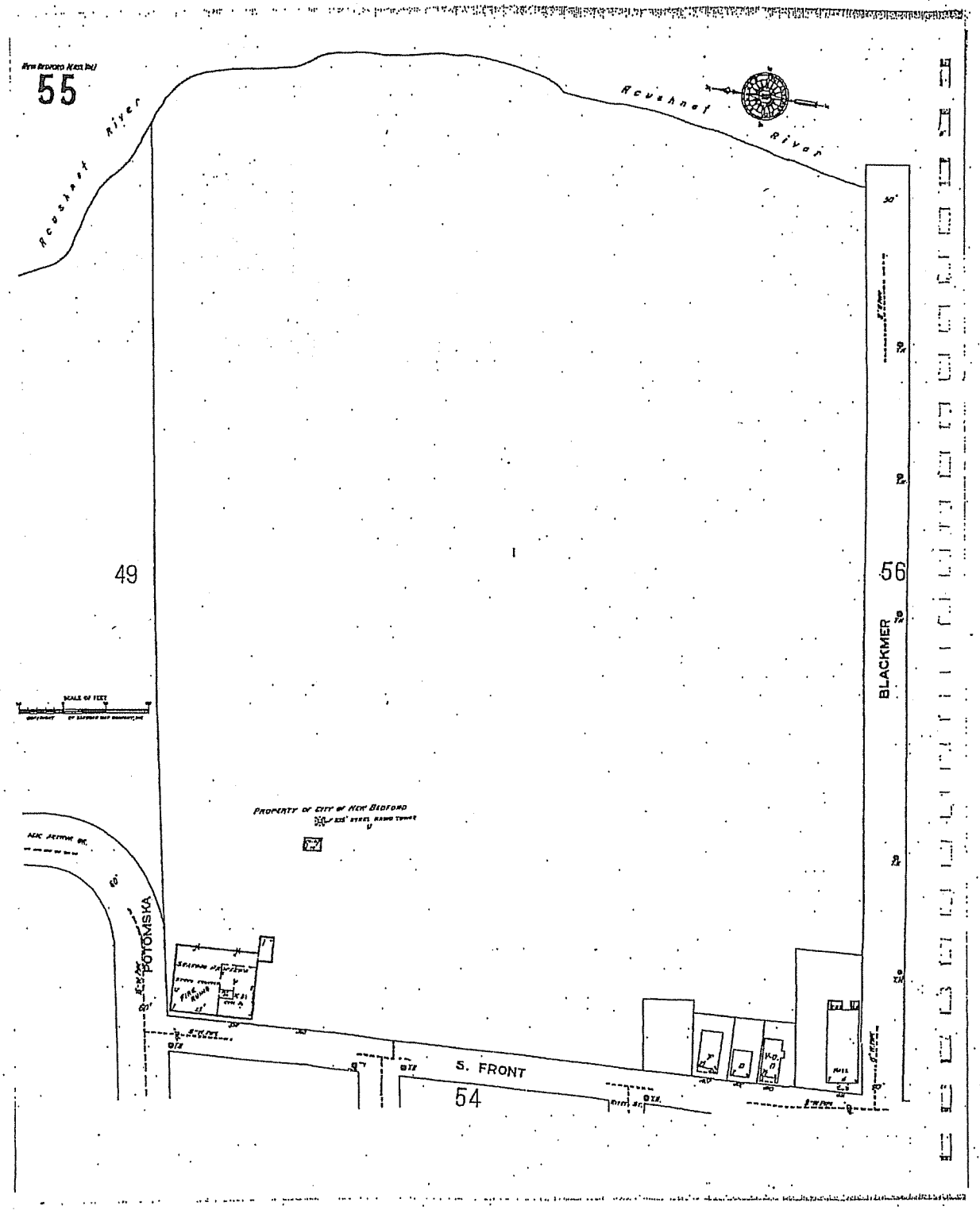

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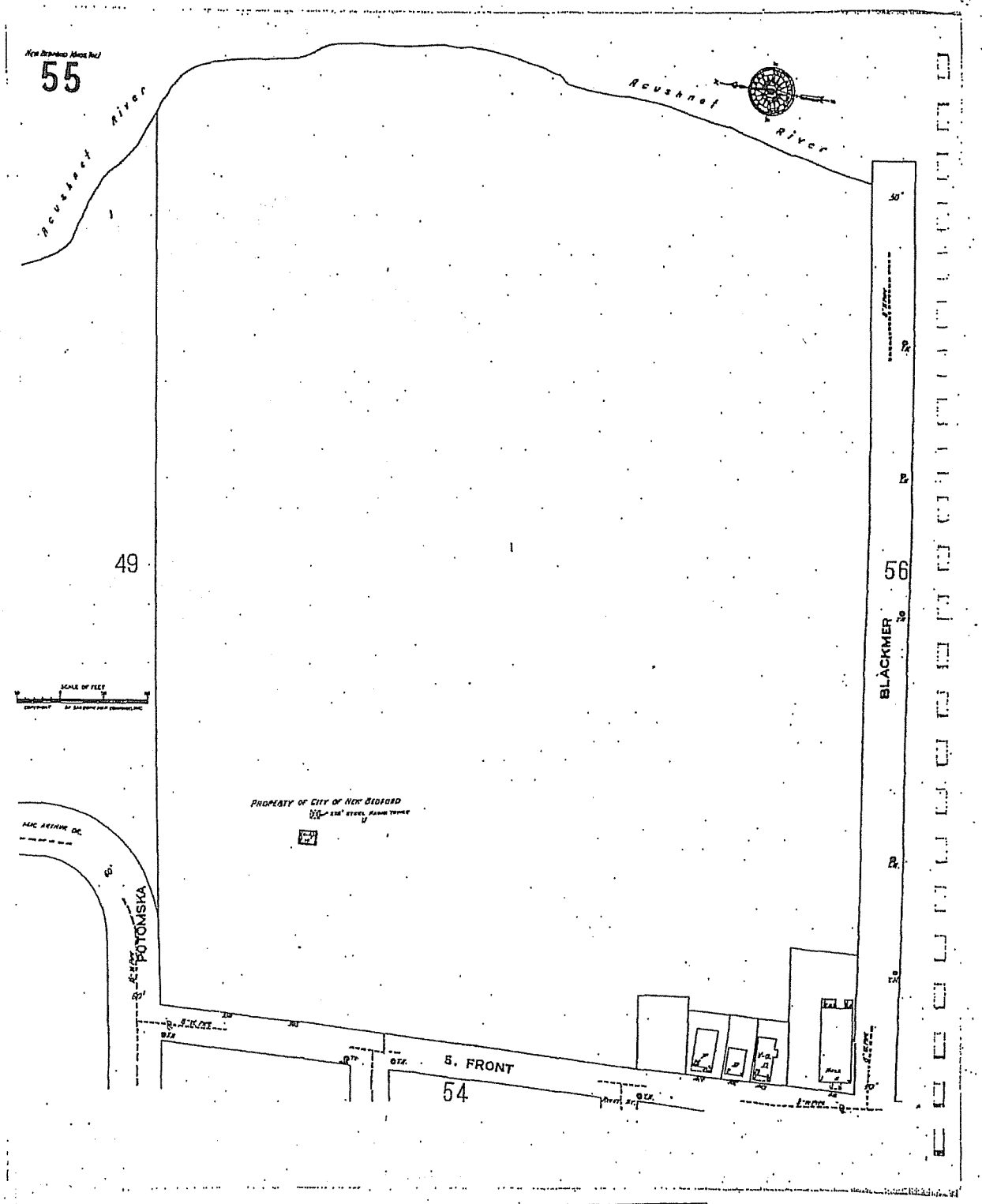

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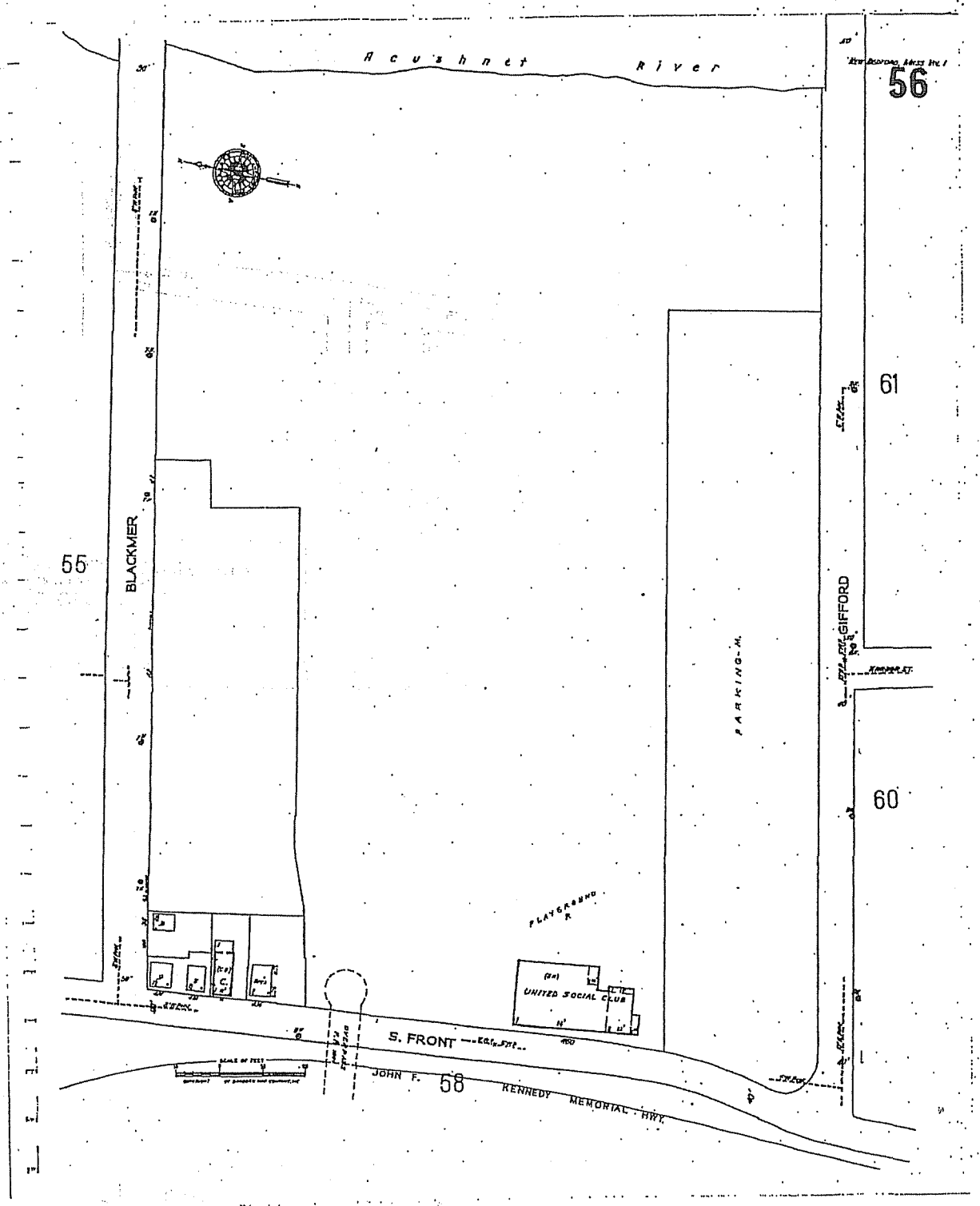

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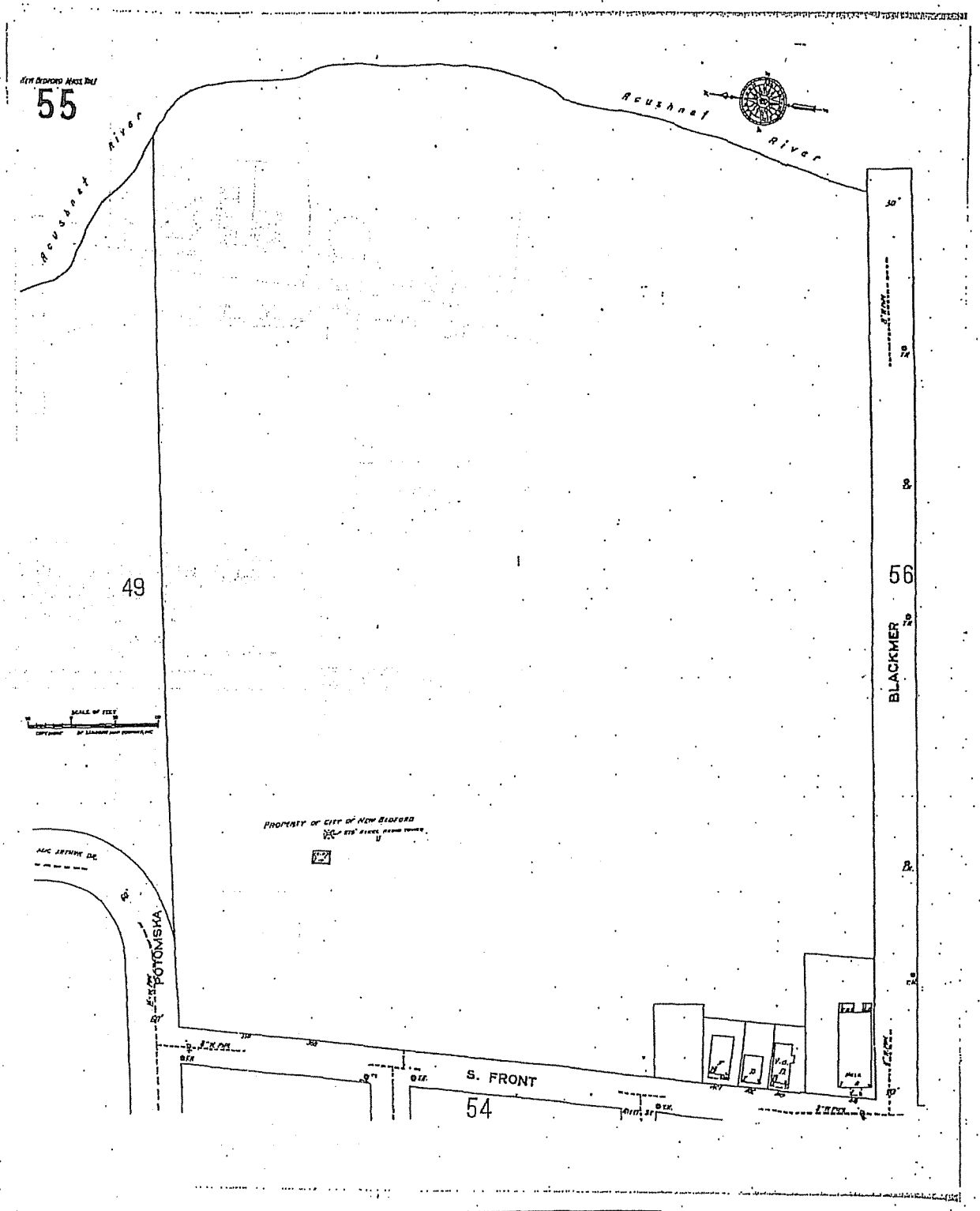

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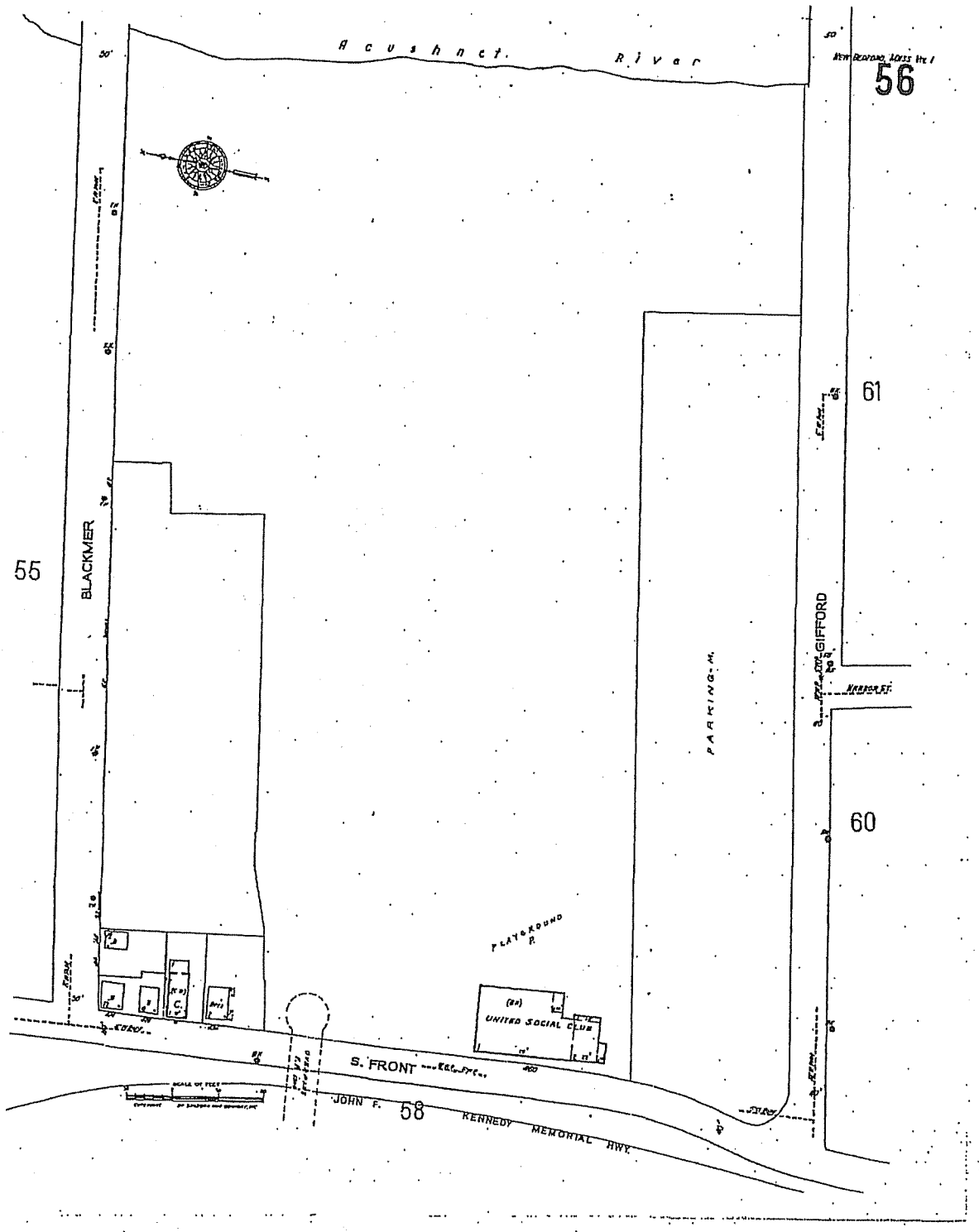

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R.I. Analytical

Specialists in Environmental Services

CERTIFICATE OF ANALYSIS

CLC Consulting Group
Attn: Ms. Cheryl Coderre
P.O. Box 9531
31 Hanson Street
Fall River, MA 02720

Date Received: 1/5/06
Date Reported: 1/12/06
P.O. #:
Work Order #: 0601-00240

DESCRIPTION: SHUSTER CORP (SIX SOIL SAMPLES)

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies and all NELAC requirements were met. The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844, NY-11726

If you have any questions regarding this work, or if we may be of further assistance, please contact us.

Approved by:

Data Reporting

enc: Chain of Custody

41 Illinois Avenue, Warwick, RI 02888
Tel: (401) 737-8500 Fax: (401) 738-1970

ACCREDITED IN ACCORDANCE WITH nelac

131 Coolidge Street, Bldg 2, Hudson, MA 01749
Tel: (978) 568-0041 Fax: (978) 568-0078

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLC Consulting Group
Date Received: 1/5/06
Work Order #: 0601-00240

Approved by: _____
Data Reporting

Sample # 001
SAMPLE DESCRIPTION: B-1 0-5'
SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 12/29/2005 @ 11:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
TOTAL CYANIDE	<11	11	mg/kg dry	SW-846 9010A	1/9/06	HD
PCB						
Aroclor-1016	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1221	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1232	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1242	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1248	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1254	0.17	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1260	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
MOISTURE	15		%	SM2540 G.	1/6/06	KR
SURROGATE			RANGE	SW-846 8082	1/12/06	MFT
Tetrachloro-m-xylene (TCMX)	76		30-150%	SW-846 8082	1/12/06	MFT
Decachlorobiphenyl	93		30-150%	SW-846 8082	1/12/06	MFT
Extraction date	Extracted			SW846 3550B	1/9/06	BNS
VPH						
Unadjusted C5-C8 Aliphatics(FID)	<3.0	3.0	mg/kg dry	MADEP	1/10/06	RGM
Unadjusted C9-C12 Aliphatics(FID)	<1.0	1.0	mg/kg dry	MADEP	1/10/06	RGM
Methyl-tert-butylether	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Benzene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Toluene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Ethylbenzene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
m,p-Xylene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
o-Xylene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Naphthalene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Adjusted C5-C8 Aliphatics(FID)	<3.0	3.0	mg/kg dry	MADEP	1/10/06	RGM
Adjusted C9-C12 Aliphatics(FID)	<1.0	1.0	mg/kg dry	MADEP	1/10/06	RGM
C9-C10 Aromatics(PID)	<2.0	2.0	mg/kg dry	MADEP	1/10/06	RGM
MOISTURE	15		%	SM2540 G.	1/6/06	KR
SURROGATE			RANGE		1/10/06	RGM
2,5-Dibromotoluene(PID)	95		70-130%	MADEP	1/10/06	RGM
2,5-Dibromotoluene(FID)	99		70-130%	MADEP	1/10/06	RGM
EPH/PAH						
C9-C18 Aliphatics	<10	10	mg/kg dry	MADEP	1/11/06	NR
C19-C36 Aliphatics	21	10	mg/kg dry	MADEP	1/11/06	NR
C11-C22 Aromatics	57	10	mg/kg dry	MADEP	1/11/06	NR
Total EPH	78		mg/kg dry	MADEP	1/11/06	NR
TARGET PAH ANALYTES					1/11/06	NR
Naphthalene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
2-Methylnaphthalene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLC Consulting Group
Date Received: 1/5/06
Work Order #: 0601-00240

Approved by: _____
Data Reporting

Sample # 001
SAMPLE DESCRIPTION: B-1 0-5'
SAMPLE TYPE: GRAB
SAMPLE DATE/TIME: 12/29/2005 @ 11:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Acenaphthylene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Acenaphthene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Fluorene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Phenanthrene	2.6	0.4	mg/kg dry	MADEP	1/11/06	NR
Anthracene	0.6	0.4	mg/kg dry	MADEP	1/11/06	NR
Fluoranthene	3.1	0.4	mg/kg dry	MADEP	1/11/06	NR
Pyrene	3.7	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(a)anthracene	1.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Chrysene	1.5	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(b)fluoranthene	1.3	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(k)fluoranthene	1.2	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(a)pyrene	1.5	0.4	mg/kg dry	MADEP	1/11/06	NR
Indeno(1,2,3-cd)pyrene	1.0	0.4	mg/kg dry	MADEP	1/11/06	NR
Dibenzo(a,h)anthracene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(g,h,i)perylene	0.9	0.4	mg/kg dry	MADEP	1/11/06	NR
MOISTURE	15		%	SM2540 G.	1/6/06	KR
SURROGATES			RANGE		1/11/06	NR
Chloro-octadecane	56		40-140%	MADEP	1/11/06	NR
Ortho-terphenyl	62		40-140%	MADEP	1/11/06	NR
FRACTIONATION SURROGATES			RANGE		1/11/06	NR
2-Fluorobiphenyl	81		40-140%	MADEP	1/11/06	NR
2-Bromonaphthalene	80		40-140%	MADEP	1/11/06	NR
Extraction date	Extracted			MADEP	1/6/06	KR
TOTAL METALS						
ARSENIC	<5.3	5.3	mg/kg dry	SW-846 6010	1/10/06	JNB
BARIUM	21	0.26	mg/kg dry	SW-846 6010	1/10/06	JNB
CADMIUM	<0.26	0.26	mg/kg dry	SW-846 6010	1/10/06	JNB
CHROMIUM	7.2	1.6	mg/kg dry	SW-846 6010	1/10/06	JNB
LEAD	19	2.1	mg/kg dry	SW-846 6010	1/10/06	JNB
MERCURY	0.26	0.11	mg/kg dry	SW-846 7471A	1/9/06	REA
SELENIUM	<10	10	mg/kg dry	SW-846 6010	1/10/06	JNB
SILVER	<1.0	1.0	mg/kg dry	SW-846 6010	1/10/06	JNB

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Date Received: 1/5/06
Work Order #: 0601-00240

Approved by: _____
Data Reporting

All QA/QC procedures required by the VPH Method were followed.
All Performance/Acceptance Standards for the required QA/QC procedures were achieved or otherwise stated.
No significant modifications were made to the VPH Method.

All QA/QC procedures required by the EPH Method were followed.
All Performance/Acceptance Standards for the required QA/QC procedures were achieved or otherwise stated.
No significant modifications were made to the EPH Method with the following exception: C-range values may have been blank subtracted to minimize the effect of leachable plasticizers from the SPE cartridges.

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CLC Consulting Group
Date Received: 1/5/06
Work Order #: 0601-00240

Approved by: _____
Data Reporting

Sample # 002
SAMPLE DESCRIPTION: B-2 5-10'
SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 12/29/2005 @ 11:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
TOTAL CYANIDE	<10	10	mg/kg dry	SW-846 9010A	1/9/06	HD
PCB						
Aroclor-1016	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1221	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1232	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1242	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1248	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1254	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1260	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
MOISTURE	11		%	SM2540 G.	1/6/06	KR
SURROGATE			RANGE	SW-846 8082	1/12/06	MFT
Tetrachloro-m-xylene (TCMX)	59		30-150%	SW-846 8082	1/12/06	MFT
Decachlorobiphenyl	67		30-150%	SW-846 8082	1/12/06	MFT
Extraction date	Extracted			SW846 3550B	1/9/06	BNS
VPH						
Unadjusted C5-C8 Aliphatics(FID)	<3.0	3.0	mg/kg dry	MADEP	1/10/06	RGM
Unadjusted C9-C12 Aliphatics(FID)	<1.0	1.0	mg/kg dry	MADEP	1/10/06	RGM
Methyl-tert-butylether	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Benzene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Toluene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Ethylbenzene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
m,p-Xylene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
o-Xylene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Naphthalene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Adjusted C5-C8 Aliphatics(FID)	<3.0	3.0	mg/kg dry	MADEP	1/10/06	RGM
Adjusted C9-C12 Aliphatics(FID)	<1.0	1.0	mg/kg dry	MADEP	1/10/06	RGM
C9-C10 Aromatics(PID)	<2.0	2.0	mg/kg dry	MADEP	1/10/06	RGM
MOISTURE	11		%	SM2540 G.	1/6/06	KR
SURROGATE			RANGE		1/10/06	RGM
2,5-Dibromotoluene(PID)	81		70-130%	MADEP	1/10/06	RGM
2,5-Dibromotoluene(FID)	82		70-130%	MADEP	1/10/06	RGM
EPH/PAH						
C9-C18 Aliphatics	<10	10	mg/kg dry	MADEP	1/11/06	NR
C19-C36 Aliphatics	10	10	mg/kg dry	MADEP	1/11/06	NR
C11-C22 Aromatics	210	40	mg/kg dry	MADEP	1/11/06	NR
Total EPH	220		mg/kg dry	MADEP	1/11/06	NR
TARGET PAH ANALYTES					1/11/06	NR
Naphthalene	<2	2	mg/kg dry	MADEP	1/11/06	NR
2-Methylnaphthalene	<2	2	mg/kg dry	MADEP	1/11/06	NR

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CERTIFICATE OF ANALYSIS

CLC Consulting Group
Date Received: 1/5/06
Work Order #: 0601-00240

Approved by: _____
Data Reporting

Sample # 002
SAMPLE DESCRIPTION: B-2 5-10'
SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 12/29/2005 @ 11:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Acenaphthylene	<2	2	mg/kg dry	MADEP	1/11/06	NR
Acenaphthene	<2	2	mg/kg dry	MADEP	1/11/06	NR
Fluorene	<2	2	mg/kg dry	MADEP	1/11/06	NR
Phenanthrene	2.1	2	mg/kg dry	MADEP	1/11/06	NR
Anthracene	<2	2	mg/kg dry	MADEP	1/11/06	NR
Fluoranthene	17	2	mg/kg dry	MADEP	1/11/06	NR
Pyrene	19	2	mg/kg dry	MADEP	1/11/06	NR
Benzo(a)anthracene	11	2	mg/kg dry	MADEP	1/11/06	NR
Chrysene	8.8	2	mg/kg dry	MADEP	1/11/06	NR
Benzo(b)fluoranthene	7.6	2	mg/kg dry	MADEP	1/11/06	NR
Benzo(k)fluoranthene	9.6	2	mg/kg dry	MADEP	1/11/06	NR
Benzo(a)pyrene	11	2	mg/kg dry	MADEP	1/11/06	NR
Indeno(1,2,3-cd)pyrene	7.6	2	mg/kg dry	MADEP	1/11/06	NR
Dibenzo(a,h)anthracene	<2	2	mg/kg dry	MADEP	1/11/06	NR
Benzo(g,h,i)perylene	6.0	2	mg/kg dry	MADEP	1/11/06	NR
MOISTURE	11		%	SM2540 G.	1/6/06	KR
SURROGATES			RANGE		1/11/06	NR
Chloro-octadecane	68		40-140%	MADEP	1/11/06	NR
Ortho-terphenyl	64		40-140%	MADEP	1/11/06	NR
FRACTIONATION SURROGATES			RANGE		1/11/06	NR
2-Fluorobiphenyl	80		40-140%	MADEP	1/11/06	NR
2-Bromonaphthalene	83		40-140%	MADEP	1/11/06	NR
Extraction date	Extracted			MADEP	1/6/06	KR
TOTAL METALS						
ARSENIC	<5.3	5.3	mg/kg dry	SW-846 6010	1/10/06	JNB
BARIUM	19	0.27	mg/kg dry	SW-846 6010	1/10/06	JNB
CADMIUM	<0.27	0.27	mg/kg dry	SW-846 6010	1/10/06	JNB
CHROMIUM	6.2	1.6	mg/kg dry	SW-846 6010	1/10/06	JNB
LEAD	16	2.1	mg/kg dry	SW-846 6010	1/10/06	JNB
MERCURY	0.16	0.11	mg/kg dry	SW-846 7471A	1/9/06	REA
SELENIUM	<11	11	mg/kg dry	SW-846 6010	1/10/06	JNB
SILVER	<1.1	1.1	mg/kg dry	SW-846 6010	1/10/06	JNB

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All QA/QC procedures required by the VPH Method were followed.
All Performance/Acceptance Standards for the required QA/QC procedures were achieved or otherwise stated.
No significant modifications were made to the VPH Method.

All QA/QC procedures required by the EPH Method were followed.
All Performance/Acceptance Standards for the required QA/QC procedures were achieved or otherwise stated.
No significant modifications were made to the EPH Method with the following exception: C-range values may have been blank subtracted to minimize the effect of leachable plasticizers from the SPE cartridges.

Aromatic dilution factor=4

Aromatic dilution factor 4

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Date Received: 1/5/06
Work Order #: 0601-00240

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Sample # 003
SAMPLE DESCRIPTION: B-3 0-5'
SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 12/29/2005 @ 12:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
TOTAL CYANIDE	<10	10	mg/kg dry	SW-846 9010A	1/9/06	HD
PCB						
Aroclor-1016	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1221	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1232	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1242	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1248	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1254	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1260	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
MOISTURE	13		%	SM2540 G.	1/6/06	KR
SURROGATE			RANGE	SW-846 8082	1/12/06	MFT
Tetrachloro-m-xylene (TCMX)	78		30-150%	SW-846 8082	1/12/06	MFT
Decachlorobiphenyl	93		30-150%	SW-846 8082	1/12/06	MFT
Extraction date	Extracted			SW846 3550B	1/9/06	BNS
VPH						
Unadjusted C5-C8 Aliphatics(FID)	<3.0	3.0	mg/kg dry	MADEP	1/10/06	RGM
Unadjusted C9-C12 Aliphatics(FID)	<1.0	1.0	mg/kg dry	MADEP	1/10/06	RGM
Methyl-tert-butylether	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Benzene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Toluene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Ethylbenzene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
m,p-Xylene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
o-Xylene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Naphthalene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Adjusted C5-C8 Aliphatics(FID)	<3.0	3.0	mg/kg dry	MADEP	1/10/06	RGM
Adjusted C9-C12 Aliphatics(FID)	<1.0	1.0	mg/kg dry	MADEP	1/10/06	RGM
C9-C10 Aromatics(PID)	<2.0	2.0	mg/kg dry	MADEP	1/10/06	RGM
MOISTURE	13		%	SM2540 G.	1/6/06	KR
SURROGATE			RANGE		1/10/06	RGM
2,5-Dibromotoluene(PID)	84		70-130%	MADEP	1/10/06	RGM
2,5-Dibromotoluene(FID)	84		70-130%	MADEP	1/10/06	RGM
EPH/PAH						
C9-C18 Aliphatics	<10	10	mg/kg dry	MADEP	1/11/06	NR
C19-C36 Aliphatics	10	10	mg/kg dry	MADEP	1/11/06	NR
C11-C22 Aromatics	28	10	mg/kg dry	MADEP	1/11/06	NR
Total EPH	38		mg/kg dry	MADEP	1/11/06	NR
TARGET PAH ANALYTES					1/11/06	NR
Naphthalene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
2-Methylnaphthalene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR

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CLC Consulting Group
Date Received: 1/5/06
Work Order #: 0601-00240

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Sample # 003
SAMPLE DESCRIPTION: B-3 0-5'
SAMPLE TYPE: GRAB
SAMPLE DATE/TIME: 12/29/2005 @ 12:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Acenaphthylene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Acenaphthene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Fluorene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Phenanthrene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Anthracene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Fluoranthene	0.8	0.4	mg/kg dry	MADEP	1/11/06	NR
Pyrene	0.8	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(a)anthracene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Chrysene	0.5	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(b)fluoranthene	0.6	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(k)fluoranthene	0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(a)pyrene	0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Indeno(1,2,3-cd)pyrene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Dibenzo(a,h)anthracene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(g,h,i)perylene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
MOISTURE	13		%	SM2540 G.	1/6/06	KR
SURROGATES			RANGE		1/11/06	NR
Chloro-octadecane	77		40-140%	MADEP	1/11/06	NR
Ortho-terphenyl	66		40-140%	MADEP	1/11/06	NR
FRACTIONATION SURROGATES			RANGE		1/11/06	NR
2-Fluorobiphenyl	80		40-140%	MADEP	1/11/06	NR
2-Bromonaphthalene	75		40-140%	MADEP	1/11/06	NR
Extraction date	Extracted			MADEP	1/6/06	KR
TOTAL METALS						
ARSENIC	<5.2	5.2	mg/kg dry	SW-846 6010	1/10/06	JNB
BARIUM	19	0.26	mg/kg dry	SW-846 6010	1/10/06	JNB
CADMIUM	<0.26	0.26	mg/kg dry	SW-846 6010	1/10/06	JNB
CHROMIUM	6.9	1.6	mg/kg dry	SW-846 6010	1/10/06	JNB
LEAD	20	2.1	mg/kg dry	SW-846 6010	1/10/06	JNB
MERCURY	<0.11	0.11	mg/kg dry	SW-846 7471A	1/9/06	REA
SELENIUM	<10	10	mg/kg dry	SW-846 6010	1/10/06	JNB
SILVER	<1.6	1.6	mg/kg dry	SW-846 6010	1/10/06	JNB

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All QA/QC procedures required by the VPH Method were followed.
All Performance/Acceptance Standards for the required QA/QC procedures were achieved or otherwise stated.
No significant modifications were made to the VPH Method.

All QA/QC procedures required by the EPH Method were followed.
All Performance/Acceptance Standards for the required QA/QC procedures were achieved or otherwise stated.
No significant modifications were made to the EPH Method with the following exception: C-range values may have been blank subtracted to minimize the effect of leachable plasticizers from the SPE cartridges.

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Date Received: 1/5/06
Work Order #: 0601-00240

Approved by: _____
Data Reporting

Sample # 004
SAMPLE DESCRIPTION: B-4 6'
SAMPLE TYPE: GRAB
SAMPLE DATE/TIME: 12/29/2005 @ 12:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
TOTAL CYANIDE	<16	16	mg/kg dry	SW-846 9010A	1/9/06	HD
PCB						
Aroclor-1016	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1221	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1232	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1242	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1248	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1254	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1260	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
MOISTURE	61		%	SM2540 G.	1/6/06	KR
SURROGATE			RANGE	SW-846 8082	1/12/06	MFT
Tetrachloro-m-xylene (TCMX)	74		30-150%	SW-846 8082	1/12/06	MFT
Decachlorobiphenyl	89		30-150%	SW-846 8082	1/12/06	MFT
Extraction date	Extracted			SW846 3550B	1/11/06	BNS
VPH						
Unadjusted C5-C8 Aliphatics(FID)	11	8.4	mg/kg dry	MADEP	1/10/06	RGM
Unadjusted C9-C12 Aliphatics(FID)	23	2.8	mg/kg dry	MADEP	1/10/06	RGM
Methyl-tert-butylether	<0.8	0.8	mg/kg dry	MADEP	1/10/06	RGM
Benzene	<0.8	0.8	mg/kg dry	MADEP	1/10/06	RGM
Toluene	<0.8	0.8	mg/kg dry	MADEP	1/10/06	RGM
Ethylbenzene	<0.8	0.8	mg/kg dry	MADEP	1/10/06	RGM
m,p-Xylene	<0.8	0.8	mg/kg dry	MADEP	1/10/06	RGM
o-Xylene	<0.8	0.8	mg/kg dry	MADEP	1/10/06	RGM
Naphthalene	<0.8	0.8	mg/kg dry	MADEP	1/10/06	RGM
Adjusted C5-C8 Aliphatics(FID)	11	8.4	mg/kg dry	MADEP	1/10/06	RGM
Adjusted C9-C12 Aliphatics(FID)	23	2.8	mg/kg dry	MADEP	1/10/06	RGM
C9-C10 Aromatics(PID)	<5.6	5.6	mg/kg dry	MADEP	1/10/06	RGM
MOISTURE	61		%	SM2540 G.	1/6/06	KR
SURROGATE			RANGE		1/10/06	RGM
2,5-Dibromotoluene(PID)	88		70-130%	MADEP	1/10/06	RGM
2,5-Dibromotoluene(FID)	86		70-130%	MADEP	1/10/06	RGM
EPH/PAH						
C9-C18 Aliphatics	<10	10	mg/kg dry	MADEP	1/11/06	NR
C19-C36 Aliphatics	<10	10	mg/kg dry	MADEP	1/11/06	NR
C11-C22 Aromatics	<10	10	mg/kg dry	MADEP	1/11/06	NR
Total EPH	<30		mg/kg dry	MADEP	1/11/06	NR
TARGET PAH ANALYTES					1/11/06	NR
Naphthalene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
2-Methylnaphthalene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR

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CLC Consulting Group
Date Received: 1/5/06
Work Order #: 0601-00240

Approved by: _____
Data Reporting

Sample # 004
SAMPLE DESCRIPTION: B-4 6'
SAMPLE TYPE: GRAB
SAMPLE DATE/TIME: 12/29/2005 @ 12:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Acenaphthylene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Acenaphthene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Fluorene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Phenanthrene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Anthracene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Fluoranthene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Pyrene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(a)anthracene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Chrysene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(b)fluoranthene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(k)fluoranthene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(a)pyrene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Indeno(1,2,3-cd)pyrene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Dibenzo(a,h)anthracene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(g,h,i)perylene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
MOISTURE	61		%	SM2540 G.	1/6/06	KR
SURROGATES			RANGE		1/11/06	NR
Chloro-octadecane	46		40-140%	MADEP	1/11/06	NR
Ortho-terphenyl	56		40-140%	MADEP	1/11/06	NR
FRACTIONATION SURROGATES			RANGE		1/11/06	NR
2-Fluorobiphenyl	81		40-140%	MADEP	1/11/06	NR
2-Bromonaphthalene	83		40-140%	MADEP	1/11/06	NR
Extraction date	Extracted			MADEP	1/6/06	KR
TOTAL METALS						
ARSENIC	<12	12	mg/kg dry	SW-846 6010	1/10/06	JNB
BARIUM	50	0.62	mg/kg dry	SW-846 6010	1/10/06	JNB
CADMIUM	<0.62	0.62	mg/kg dry	SW-846 6010	1/10/06	JNB
CHROMIUM	21	3.7	mg/kg dry	SW-846 6010	1/10/06	JNB
LEAD	91	5.0	mg/kg dry	SW-846 6010	1/10/06	JNB
MERCURY	<0.24	0.24	mg/kg dry	SW-846 7471A	1/9/06	REA
SELENIUM	<25	25	mg/kg dry	SW-846 6010	1/10/06	JNB
SILVER	<3.7	3.7	mg/kg dry	SW-846 6010	1/10/06	JNB

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All QA/QC procedures required by the VPH Method were followed.
All Performance/Acceptance Standards for the required QA/QC procedures were achieved or otherwise stated.
No significant modifications were made to the VPH Method.

VPH: Increased detection limits due to high moisture content in sample.

All QA/QC procedures required by the EPH Method were followed.
All Performance/Acceptance Standards for the required QA/QC procedures were achieved or otherwise stated.
No significant modifications were made to the EPH Method with the following exception: C-range values may have been blank subtracted to minimize the effect of leachable plasticizers from the SPE cartridges.

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CLC Consulting Group
Date Received: 1/5/06
Work Order #: 0601-00240

Approved by: _____
Data Reporting

Sample # 005
SAMPLE DESCRIPTION: B-5 0-4'
SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 12/29/2005 @ 13:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
TOTAL CYANIDE	<11	11	mg/kg dry	SW-846 9010A	1/9/06	HD
PCB						
Aroclor-1016	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1221	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1232	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1242	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1248	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1254	0.12	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1260	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
MOISTURE	13		%	SM2540 G.	1/6/06	KR
SURROGATE			RANGE	SW-846 8082	1/12/06	MFT
Tetrachloro-m-xylene (TCMX)	79		30-150%	SW-846 8082	1/12/06	MFT
Decachlorobiphenyl	110		30-150%	SW-846 8082	1/12/06	MFT
Extraction date	Extracted			SW846 3550B	1/9/06	BNS
VPH						
Unadjusted C5-C8 Aliphatics(FID)	<3.0	3.0	mg/kg dry	MADEP	1/10/06	RGM
Unadjusted C9-C12 Aliphatics(FID)	<1.0	1.0	mg/kg dry	MADEP	1/10/06	RGM
Methyl-tert-butylether	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Benzene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Toluene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Ethylbenzene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
m,p-Xylene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
o-Xylene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Naphthalene	<0.3	0.3	mg/kg dry	MADEP	1/10/06	RGM
Adjusted C5-C8 Aliphatics(FID)	<3.0	3.0	mg/kg dry	MADEP	1/10/06	RGM
Adjusted C9-C12 Aliphatics(FID)	<1.0	1.0	mg/kg dry	MADEP	1/10/06	RGM
C9-C10 Aromatics(PID)	<2.0	2.0	mg/kg dry	MADEP	1/10/06	RGM
MOISTURE	13		%	SM2540 G.	1/6/06	KR
SURROGATE			RANGE		1/10/06	RGM
2,5-Dibromotoluene(PID)	81		70-130%	MADEP	1/10/06	RGM
2,5-Dibromotoluene(FID)	82		70-130%	MADEP	1/10/06	RGM
EPH/PAH						
C9-C18 Aliphatics	<10	10	mg/kg dry	MADEP	1/11/06	NR
C19-C36 Aliphatics	11	10	mg/kg dry	MADEP	1/11/06	NR
C11-C22 Aromatics	53	10	mg/kg dry	MADEP	1/11/06	NR
Total EPH	64		mg/kg dry	MADEP	1/11/06	NR
TARGET PAH ANALYTES					1/11/06	NR
Naphthalene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
2-Methylnaphthalene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLC Consulting Group
Date Received: 1/5/06
Work Order #: 0601-00240

Approved by: _____
Data Reporting

Sample # 005
SAMPLE DESCRIPTION: B-5 0-4'
SAMPLE TYPE: GRAB
SAMPLE DATE/TIME: 12/29/2005 @ 13:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Acenaphthylene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Acenaphthene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Fluorene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Phenanthrene	1.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Anthracene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Fluoranthene	2.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Pyrene	3.3	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(a)anthracene	1.5	0.4	mg/kg dry	MADEP	1/11/06	NR
Chrysene	1.7	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(b)fluoranthene	2.7	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(k)fluoranthene	1.2	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(a)pyrene	2.1	0.4	mg/kg dry	MADEP	1/11/06	NR
Indeno(1,2,3-cd)pyrene	1.5	0.4	mg/kg dry	MADEP	1/11/06	NR
Dibenzo(a,h)anthracene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(g,h,i)perylene	1.7	0.4	mg/kg dry	MADEP	1/11/06	NR
MOISTURE	13		%	SM2540 G.	1/6/06	KR
SURROGATES			RANGE		1/11/06	NR
Chloro-octadecane	74		40-140%	MADEP	1/11/06	NR
Ortho-terphenyl	66		40-140%	MADEP	1/11/06	NR
FRACTIONATION SURROGATES			RANGE		1/11/06	NR
2-Fluorobiphenyl	62		40-140%	MADEP	1/11/06	NR
2-Bromonaphthalene	71		40-140%	MADEP	1/11/06	NR
Extraction date	Extracted			MADEP	1/6/06	KR
TOTAL METALS						
ARSENIC	<5.6	5.6	mg/kg dry	SW-846 6010	1/10/06	JNB
BARIUM	22	0.28	mg/kg dry	SW-846 6010	1/10/06	JNB
CADMIUM	<0.28	0.28	mg/kg dry	SW-846 6010	1/10/06	JNB
CHROMIUM	8.5	1.7	mg/kg dry	SW-846 6010	1/10/06	JNB
LEAD	41	2.2	mg/kg dry	SW-846 6010	1/10/06	JNB
MERCURY	0.16	0.12	mg/kg dry	SW-846 7471A	1/9/06	REA
SELENIUM	<11	11	mg/kg dry	SW-846 6010	1/10/06	JNB
SILVER	<1.7	1.7	mg/kg dry	SW-846 6010	1/10/06	JNB

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLC Consulting Group
Date Received: 1/5/06
Work Order #: 0601-00240

Approved by: _____
Data Reporting

All QA/QC procedures required by the VPH Method were followed.
All Performance/Acceptance Standards for the required QA/QC procedures were achieved or otherwise stated.
No significant modifications were made to the VPH Method.

All QA/QC procedures required by the EPH Method were followed.
All Performance/Acceptance Standards for the required QA/QC procedures were achieved or otherwise stated.
No significant modifications were made to the EPH Method with the following exception: C-range values may have been blank subtracted to minimize the effect of leachable plasticizers from the SPE cartridges.

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLC Consulting Group
Date Received: 1/5/06
Work Order #: 0601-00240

Approved by: _____
Data Reporting

Sample # 006
SAMPLE DESCRIPTION: B-6 8'
SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 12/29/2005 @ 13:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
TOTAL CYANIDE	<12	12	mg/kg dry	SW-846 9010A	1/9/06	HD
PCB						
Aroclor-1016	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1221	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1232	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1242	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1248	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1254	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
Aroclor-1260	<0.1	0.1	mg/kg dry	SW-846 8082	1/12/06	MFT
MOISTURE	76		%	SM2540 G.	1/6/06	KR
SURROGATE			RANGE	SW-846 8082	1/12/06	MFT
Tetrachloro-m-xylene (TCMX)	69		30-150%	SW-846 8082	1/12/06	MFT
Decachlorobiphenyl	83		30-150%	SW-846 8082	1/12/06	MFT
Extraction date	Extracted			SW846 3550B	1/9/06	BNS
VPH						
Unadjusted C5-C8 Aliphatics(FID)	<25	25	mg/kg dry	MADEP	1/10/06	RGM
Unadjusted C9-C12 Aliphatics(FID)	190	8.3	mg/kg dry	MADEP	1/10/06	RGM
Methyl-tert-butylether	<2	2	mg/kg dry	MADEP	1/10/06	RGM
Benzene	6	0.3	mg/kg dry	MADEP	1/10/06	RGM
Toluene	<2	2	mg/kg dry	MADEP	1/10/06	RGM
Ethylbenzene	23	2	mg/kg dry	MADEP	1/10/06	RGM
m,p-Xylene	20	2	mg/kg dry	MADEP	1/10/06	RGM
o-Xylene	14	2	mg/kg dry	MADEP	1/10/06	RGM
Naphthalene	89	2	mg/kg dry	MADEP	1/10/06	RGM
Adjusted C5-C8 Aliphatics(FID)	<25	25	mg/kg dry	MADEP	1/10/06	RGM
Adjusted C9-C12 Aliphatics(FID)	27	1.0	mg/kg dry	MADEP	1/10/06	RGM
C9-C10 Aromatics(PID)	110	17	mg/kg dry	MADEP	1/10/06	RGM
MOISTURE	76		%	SM2540 G.	1/6/06	KR
SURROGATE			RANGE		1/10/06	RGM
2,5-Dibromotoluene(PID)	90		70-130%	MADEP	1/10/06	RGM
2,5-Dibromotoluene(FID)	92		70-130%	MADEP	1/10/06	RGM
EPH/PAH						
C9-C18 Aliphatics	<10	10	mg/kg dry	MADEP	1/11/06	NR
C19-C36 Aliphatics	13	10	mg/kg dry	MADEP	1/11/06	NR
C11-C22 Aromatics	40	10	mg/kg dry	MADEP	1/11/06	NR
Total EPH	53		mg/kg dry	MADEP	1/11/06	NR
TARGET PAH ANALYTES					1/11/06	NR
Naphthalene	14	0.4	mg/kg dry	MADEP	1/11/06	NR
2-Methylnaphthalene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLC Consulting Group
Date Received: 1/5/06
Work Order #: 0601-00240

Approved by: _____
Data Reporting

Sample # 006
SAMPLE DESCRIPTION: B-6 8'
SAMPLE TYPE: GRAB
SAMPLE DATE/TIME: 12/29/2005 @ 13:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Acenaphthylene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Acenaphthene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Fluorene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Phenanthrene	1.1	0.4	mg/kg dry	MADEP	1/11/06	NR
Anthracene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Fluoranthene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Pyrene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(a)anthracene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Chrysene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(b)fluoranthene	0.5	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(k)fluoranthene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(a)pyrene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Indeno(1,2,3-cd)pyrene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Dibenzo(a,h)anthracene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
Benzo(g,h,i)perylene	<0.4	0.4	mg/kg dry	MADEP	1/11/06	NR
MOISTURE	76		%	SM2540 G.	1/6/06	KR
SURROGATES			RANGE		1/11/06	NR
Chloro-octadecane	47		40-140%	MADEP	1/11/06	NR
Ortho-terphenyl	41		40-140%	MADEP	1/11/06	NR
FRACTIONATION SURROGATES			RANGE		1/11/06	NR
2-Fluorobiphenyl	81		40-140%	MADEP	1/11/06	NR
2-Bromonaphthalene	82		40-140%	MADEP	1/11/06	NR
Extraction date	Extracted			MADEP	1/6/06	KR
TOTAL METALS						
ARSENIC	<20	20	mg/kg dry	SW-846 6010	1/10/06	JNB
BARIUM	79	1.0	mg/kg dry	SW-846 6010	1/10/06	JNB
CADMIUM	<1.0	1.0	mg/kg dry	SW-846 6010	1/10/06	JNB
CHROMIUM	32	6.2	mg/kg dry	SW-846 6010	1/10/06	JNB
LEAD	160	8.2	mg/kg dry	SW-846 6010	1/10/06	JNB
MERCURY	<0.38	0.38	mg/kg dry	SW-846 7471A	1/9/06	REA
SELENIUM	<41	41	mg/kg dry	SW-846 6010	1/10/06	JNB
SILVER	<6.2	6.2	mg/kg dry	SW-846 6010	1/10/06	JNB

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLC Consulting Group
Date Received: 1/5/06
Work Order #: 0601-00240

Approved by: _____
Data Reporting

All QA/QC procedures required by the VPH Method were followed.
All Performance/Acceptance Standards for the required QA/QC procedures were achieved or otherwise stated.
No significant modifications were made to the VPH Method.

VPH: Increased detection limits due to high moisture content in sample.

All QA/QC procedures required by the EPH Method were followed.
All Performance/Acceptance Standards for the required QA/QC procedures were achieved or otherwise stated.
No significant modifications were made to the EPH Method with the following exception: C-range values may have been blank subtracted to minimize the effect of leachable plasticizers from the SPE cartridges.

R.I. Analytical

Specialists in Environmental Services

Case Narrative

Date: 01/25/05

CLC Consulting Group
Attn: Ms. Cheryl Coderre
P.O. Box 9531
31 Hanson Street
Fall River, MA 02720

Project: SHUSTER CORP

RIAL WO# 0601-00240

The following exceptions were noted for this Work Order:

Most of the PCB Method 8082 LCS/LCSD Relative Percent Differences (RPDs) were within the recommended acceptance limit of ≤20% except for; Aroclor 1254 (33%).

Michael J. Hobin
QA/QC Manager

41 Illinois Avenue, Warwick, RI 02888
Tel: (401) 737-8500 Fax: (401) 738-1970

ACCREDITED IN ACCORDANCE WITH nelac

131 Coolidge Street, Bldg 2, Hudson, MA 01749
Tel: (978) 568-0041 Fax: (978) 568-0078

R.I. Analytical

Specialists in Environmental Services

Customer Name : CLC Consulting Group

W.O. Number 0601-00240

MADEP MCP Response Action Analytical Report Certification Form	
Laboratory Name: R.I. Analytical Laboratories	Work Order No: 0601-00240
Project / Location: SHUSTER CORP (SIX SOIL SAMPLES)	MADEP RTN 1 :
This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)] 0601-00240-001 thru -006	

Sample Matrices: ☐ Groundwater ☒ Soil / Sediment ☐ Drinking Water ☐ Other :

M C P SW-846 As specified in MADEP Compendium of Analytical Methods: (check all that apply)					
	8260B ( )	8151A ( )	8330 ( )	6010B(X)	7470A/1A(X)
	8270C ( )	8081A ( )	VPH (X)	6020 ( )	9014M 2 ( )
	8082 (X)	8021B ( )	EPH (X)	7000 S 3 ( )	OTHER (X)
	1 List Release Tracking Number (RTN), if known 2 M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method 3 S - SW-846 Methods 7000 Series List individual method and analyte				

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of Custody documentation for the data set?	☒ Yes ☐ No 1
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	☒ Yes ☐ No 1
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty ", as described in Section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Aquisition and Reporting of Analytical Data"?	☒ Yes ☐ No 1
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	☒ Yes ☐ No 1

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all QC performance standards and recommendations for the specified methods achieved?	☐ Yes ☒ No 1
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	☒ Yes ☐ No 1

1 *All NO answers must be addressed in an attached Environmental Laboratory case narrative.*

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

Signature _____ Date: 1/26/06

Mike Hobin, QA/QC Manager

ACCREDITED IN ACCORDANCE WITH nelac

41 Illinois Avenue, Warwick, RI 02888
Tel: (401) 737-8500 Fax: (401) 738-1970

131 Coolidge Street, Bldg 2, Hudson, MA 01749
Tel: (978) 568-0041 Fax: (978) 568-0078

RI Analytical Laboratories, Inc.
QA/QC Report

Client: CLC CONSULTING GROUP
W.O. #: 0601-00240
Date: 01/23/2006

-Method Blank Results-

Parameter	Units	Results	Date Analyzed
Cyanide	ug/l	<10	01/09/2006

-EPH LCS/LCS Duplicate Results-

Parameter	Units	Spike Conc.	LCS Detected Conc.	% Rec.	LCS dup. Detected Conc.	% Rec.	RPD	Date Analyzed
Cyanide	ug/l	10.0	9.2	92	8.7	87	6	01/09/2006

-Replicate Sample Results-

Parameter	Units	Sample #	Rep 1 Conc.	Rep 2 Conc.	Mean Conc.	Reported Value	RPD	Date Analyzed
Cyanide	ug/l	00240-2	<10	<10	<10	<10	0	01/09/06

-Matrix Spike Results-

Parameter	Units	Sample #	Sample Conc.	Spike Conc.	Detected Conc.	% Rec.	Date Analyzed
Cyanide	ug/l	00240-2	<10	98	87	89	01/09/2006

PCB ORGANICS METHOD BLANK DATA SHEET

Lab Name: RI ANALYTICAL CLIENT: CLC CONSULTING GROUP

Date: 1/9/2006 W.O #: 0601-00240

COMPOUND		CONCENTRATION UNITS: mg/kg dry
Aroclor-1016		<0.1
Aroclor-1221		<0.1
Aroclor-1232		<0.1
Aroclor-1242		<0.1
Aroclor-1248		<0.1
Aroclor-1254		<0.1
Aroclor-1260		<0.1
Tetrachloro-m-xylene (TCMX)	(30-150%)	84
Decachlorobiphenyl	(30-150%)	108

PCB ORGANICS LCS/LCS DUPLICATE DATA SHEET

Lab Name: RI ANALYTICAL

Client: CLC CONSULTING GROUP

W.O. #: 0601-00240

COMPOUND		SPIKE CONC. mg/kg dry	LCS CONC. mg/kg dry	LCS % REC.	LCS DUP. CONC. mg/kg dry	LCS DUP. % REC.	RPD
Aroclor-1254		0.33	0.23	70	0.32	97	33
Tetrachloro-m-xylene (TCMX)	(30-150%)			33		77	
Decachlorobiphenyl	(30-150%)			67		84	

RI Analytical Laboratories, Inc.
QA/QC Report

Client: CLC Consulting Group
W.O.#: 0601-00240
Date: 01/23/2006

-VPH Method Blank Results-

Parameter	Units	Results	Date Analyzed
Unadj C5-C8 Aliphatics(FID)	mg/kg dry	<3.0	01/10/2006
Unadj C9-C12 Aliphatics(FID)	mg/kg dry	<1.0	01/10/2006
Methyl-tert-butylether	mg/kg dry	<0.3	01/10/2006
Benzene	mg/kg dry	<0.3	01/10/2006
Toluene	mg/kg dry	<0.3	01/10/2006
Ethylbenzene	mg/kg dry	<0.3	01/10/2006
m,p-Xylene	mg/kg dry	<0.3	01/10/2006
o-Xylene	mg/kg dry	<0.3	01/10/2006
Naphthalene	mg/kg dry	<0.3	01/10/2006
adj C5-C8 Aliphatics(FID)	mg/kg dry	<3.0	01/10/2006
adj C9-C12 Aliphatics(FID)	mg/kg dry	<1.0	01/10/2006
C9-C10 Aromatics(PID)	mg/kg dry	<2.0	01/10/2006
SURROGATE			
2,5-Dibromotoluene(PID)	%	78	01/10/2006
2,5-Dibromotoluene(FID)	%	77	01/10/2006

-VPH LCS Results-

Parameter	Units	Spike Conc.	Detected Conc.	% Rec.	Date Analyzed
Methyl-tert-butylether	mg/kg dry	15.0	14.1	94	01/10/2006
Benzene	mg/kg dry	5.0	4.8	96	01/10/2006
Toluene	mg/kg dry	15.0	14.6	97	01/10/2006
Ethylbenzene	mg/kg dry	5.0	4.9	98	01/10/2006
m,p-Xylene	mg/kg dry	20.0	20.1	100	01/10/2006
o-Xylene	mg/kg dry	10.0	10.2	102	01/10/2006
Naphthalene	mg/kg dry	10.0	12.4	124	01/10/2006
SURROGATE					
2,5-Dibromotoluene(PID)	%			93	01/10/2006
2,5-Dibromotoluene(FID)	%			78	01/10/2006

RI Analytical Laboratories, Inc.
QA/QC Report

Client: CLC Consulting Group
W.O.#: 0601-00240
Date: 01/23/2006

-VPH LCS Duplicate Results-

Parameter	Units	Spike Conc.	Detected Conc.	% Rec.	RPD	Date Analyzed
Methyl-tert-butylether	mg/kg dry	15.0	14.3	95	1	01/10/2006
Benzene	mg/kg dry	5.0	4.8	96	0	01/10/2006
Toluene	mg/kg dry	15.0	14.3	95	2	01/10/2006
Ethylbenzene	mg/kg dry	5.0	4.8	96	2	01/10/2006
m,p-Xylene	mg/kg dry	20.0	19.2	96	4	01/10/2006
o-Xylene	mg/kg dry	10.0	9.5	95	7	01/10/2006
Naphthalene	mg/kg dry	10.0	11.2	112	10	01/10/2006
SURROGATE						
2,5-Dibromotoluene(PID)	%			93		01/10/2006
2,5-Dibromotoluene(FID)	%			95		01/10/2006

EPH METHOD BLANK DATA SHEET

Lab Name: RI ANALYTICAL Client: CLC CONSULTING GROUP

Date: 1/23/2006 W.O.#: 0601-00240

COMPOUND	CONCENTRATION UNITS: mg/kg dry
C9-C18 Aliphatics (FID)	<10
C19-C36 Aliphatics (FID)	<10
C11-C22 Aromatics (FID)	<10
Naphthalene	<0.4
2-Methylnaphthalene	<0.4
Acenaphthylene	<0.4
Acenaphthene	<0.4
Fluorene	<0.4
Phenanthrene	<0.4
Anthracene	<0.4
Fluoranthene	<0.4
Pyrene	<0.4
Benzo(a)anthracene	<0.4
Chrysene	<0.4
Benzo(b)fluoranthene	<0.4
Benzo(k)fluoranthene	<0.4
Benzo(a)pyrene	<0.4
Indeno(1,2,3-cd)pyrene	<0.4
Dibenzo(a,h)anthracene	<0.4
Benzo(g,h,i)perylene	<0.4
EXTRACTION SURROGATE (40-140%)	
Chloro-octadecane	77
Ortho-terphenyl	80
FRACTIONATION SURROGATE (40-140%)	
2-Fluorobiphenyl	81
2-Bromonaphthalene	82

EPH LCS/LCS DUPLICATE DATA SHEET

Lab Name: RI ANALYTICAL Client: CLC CONSULTING GROUP

Date: 1/23/2006 W.O. # 0601-00240

COMPOUND	SPIKE CONC. mg/kg dry	LCS CONC. mg/kg dry	LCS % REC.	LCS DUP. CONC. mg/kg dry	LCS DUP. % REC.	RPD
C9-C18 Aliphatics (FID)	20	13	65	13	65	0
C19-C36 Aliphatics (FID)	27	20	74	21	78	5
C11-C22 Aromatics (FID)	57	38	67	43	75	12
Naphthalene	3.3	2.2	67	2.5	76	4
2-Methylnaphthalene	3.3	2.2	67	2.5	76	13
Acenaphthylene	3.3	2.3	70	2.6	79	12
Acenaphthene	3.3	2.3	70	2.5	76	8
Fluorene	3.3	2.4	73	2.6	79	8
Phenanthrene	3.3	2.5	76	2.7	82	8
Anthracene	3.3	2.6	79	2.9	88	11
Fluoranthene	3.3	2.7	82	2.9	88	7
Pyrene	3.3	2.7	82	2.9	88	7
Benzo(a)anthracene	3.3	2.8	85	3.0	91	7
Chrysene	3.3	2.8	85	3.0	91	7
Benzo(b)fluoranthene	3.3	2.9	88	3.1	94	7
Benzo(k)fluoranthene	3.3	2.8	85	3.0	91	7
Benzo(a)pyrene	3.3	2.8	85	3.0	91	7
Indeno(1,2,3-cd)pyrene	3.3	2.8	85	3.4	103	19
Dibenzo(a,h)anthracene	3.3	2.7	82	2.6	79	4
Benzo(g,h,i)perylene	3.3	2.7	82	2.9	88	7
EXTRACTION SURROGATE (40-140%)						
Chloro-octadecane		82		73		
Ortho-terphenyl		76		82		
FRACTIONATION SURROGATE (40-140%)						
2-Fluorobiphenyl		83		83		
2-Bromonaphthalene		70		82		

RI Analytical Laboratories, Inc.
QA/QC Report

Client: CLC Consulting Group
W.O. #: 0601-00240
Date: 01/23/2006

-Method Blank Results-

Parameter	Units	Results	Date Analyzed
Arsenic	mg/kg dry	<4.9	1/10/2006
Barium	mg/kg dry	<0.25	1/10/2006
Cadmium	mg/kg dry	<0.25	1/10/2006
Chromium	mg/kg dry	<1.5	1/10/2006
Lead	mg/kg dry	<2.0	1/10/2006
Selenium	mg/kg dry	<9.8	1/10/2006
Silver	mg/kg dry	<0.98	1/10/2006
Mercury	mg/kg dry	<0.10	1/9/2006

-LCS-

Parameter	Units	Known Conc.	Detected Conc.	% Rec.	Date Analyzed
Arsenic	mg/kg dry	49	45	92	1/10/2006
Barium	mg/kg dry	49	48	98	1/10/2006
Cadmium	mg/kg dry	49	43	88	1/10/2006
Chromium	mg/kg dry	49	49	100	1/10/2006
Lead	mg/kg dry	49	47	96	1/10/2006
Selenium	mg/kg dry	49	42	86	1/10/2006
Silver	mg/kg dry	49	46	94	1/10/2006
Mercury	mg/kg dry	0.36	0.39	108	1/9/2006

-LCS dup-

Parameter	Units	Known Conc.	Detected Conc.	% Rec.	Date Analyzed
Arsenic	mg/kg dry	49	44	90	1/10/2006
Barium	mg/kg dry	49	49	100	1/10/2006
Cadmium	mg/kg dry	49	42	86	1/10/2006
Chromium	mg/kg dry	49	48	98	1/10/2006
Lead	mg/kg dry	49	47	96	1/10/2006
Selenium	mg/kg dry	49	41	84	1/10/2006
Silver	mg/kg dry	49	46	94	1/10/2006
Mercury	mg/kg dry	0.36	0.42	117	1/9/2006

CHAIN OF CUSTODY RECORD

R.I. Analytical Laboratories, Inc.

41 Illinois Avenue
Warwick, RI 02888
Tel: 800-937-2580
Fax: 401-738-1970

131 Coolidge St, Bldg. 2
Hudson, MA 01749
Tel: 888-228-3334
Fax: 978-568-0078

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type T	Preservation Code P	Matrix Code M	EPH w PAHs	8 RCRA Metals	Cyanide	PCBs	VPH w/target												
12-29-05	11:00	B-1 0-5'	G	2-G	NP	S	X	X	X	X													
	11:00	B-1 0-5'	G	1-V	M	S					X												
	11:30	B-2 5-10'	G	2-G	NP	S	X	X	X	X													
	11:30	B-2 5-10'	G	1-V	M	S					X												
	12:00	B-3 0-5'	G	2-G	NP	S	X	X	X	X													
	12:00	B-3 0-5'	G	1-V	M	S					X												
	12:30	B-4 ~~[illegible]~~ 6'	G	2-G	NP	S	X	X	X	X													
	12:30	B-4 ~~[illegible]~~ 6'	G	1-V	M	S					X												
	1:00	B-5 0-4'	G	2-G	NP	S	X	X	X	X													
	1:00	B-5 0-4'	G	1-V	M	S					X												
	1:30	B-6 8'	G	2-G	NP	S	X	X	X	X													
	1:30	B-6 8'	G	1-V	M	S					X												

Client Information		Project Information	
Company Name:	CLC Consulting Group	Project Name:	Shuster Corp.
Address:	P.O. Box 9531	P.O. Number:	Project Number:
City / State / Zip:	Fall River MA 02720	Report To:	CLC Phone: Fax:
Telephone:	508.353.1318 Fax: 508.674.4849	Sampled by:	CLC
Contact Person:	Cheryl L Coderre	Quote No:	Email address: clcconsultinggrp@aol

Relinquished By	Date	Time	Received By	Date	Time
Cheryl L Coderre	01-04-05	5:00pm	D. DeFrancesco	~~1-4-06~~ 1-5-06	1430
D. DeFrancesco	1-5-06	1700	Leslie R Ray	1-5-06	1700

Turn Around Time

- Normal — EMAIL Report
- 5 Business days. Possible surcharge.
- Rush _____ (business days)

Project Comments

Circle if applicable: GW-1, GW-2, GW-3, (S-1), S-2, S-3 MCP Data Enhancement QC Package? (Yes) No

Lab Use Only

- Sample Pick Up Only
- RIAL sampled; attach field hours
- Shipped on ice

Workorder No: 0601-00240

Container Types: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile

Preservation Codes: NP=None, N=HNO_3, H=HCl, S=H_2SO_4, SH=NaOH, SB=$NaHSO_4$, M=MeOH, T=$Na_2S_2O_3$, Z=ZnOAc, I=Ice

Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, Sl=Sludge, A=Air, B=Bulk/Solid, O=_____

R.I. Analytical

Specialists in Environmental Services

CERTIFICATE OF ANALYSIS

CLC Consulting Group
Attn: Ms. Cheryl Coderre
P.O. Box 9531
31 Hanson Street
Fall River, MA 02720

Date Received: 1/9/06
Date Reported: 1/16/06
P.O. #:
Work Order #: 0601-00398

DESCRIPTION: SHUSTER CORP (THREE GROUNDWATER SAMPLES)

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies and all NELAC requirements were met. The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844, NY-11726

If you have any questions regarding this work, or if we may be of further assistance, please contact us.

Approved by:

Data Reporting

enc: Chain of Custody

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLC Consulting Group
Date Received: 1/9/06
Work Order #: 0601-00398

Approved by: _____
Data Reporting

Sample # 001
SAMPLE DESCRIPTION: MW-1
SAMPLE TYPE: GRAB
SAMPLE DATE/TIME: 1/06/2006 @ 14:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
SPECIFIC CONDUCTANCE	450	1.0	uMHOS/CM	EPA 120.1	1/11/06	JW
TOTAL CYANIDE	<0.01	0.01	mg/l	EPA 335.2	1/11/06	HD
PCB						
Aroclor-1016	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1221	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1232	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1242	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1248	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1254	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1260	<1	1	ug/l	SW-846 8082	1/10/06	MFT
SURROGATE			RANGE	SW-846 8082	1/10/06	MFT
Tetrachloro-m-xylene (TCMX)	73		30-150%	SW-846 8082	1/10/06	MFT
Decachlorobiphenyl	54		30-150%	SW-846 8082	1/10/06	MFT
Extraction date	Extracted			SW846 3510	1/10/06	AO
VPH						
Unadjusted C5-C8 Aliphatics(FID)	26	10	ug/l	MADEP	1/12/06	RGM
Unadjusted C9-C12 Aliphatics(FID)	<10	10	ug/l	MADEP	1/12/06	RGM
Methyl-tert-butylether	<5	5	ug/l	MADEP	1/12/06	RGM
Benzene	<5	5	ug/l	MADEP	1/12/06	RGM
Toluene	<5	5	ug/l	MADEP	1/12/06	RGM
Ethylbenzene	<5	5	ug/l	MADEP	1/12/06	RGM
m,p-Xylene	<5	5	ug/l	MADEP	1/12/06	RGM
o-Xylene	<5	5	ug/l	MADEP	1/12/06	RGM
Naphthalene	<5	5	ug/l	MADEP	1/12/06	RGM
Adjusted C5-C8 Aliphatics(FID)	26	10	ug/l	MADEP	1/12/06	RGM
Adjusted C9-C12 Aliphatics(FID)	<10	10	ug/l	MADEP	1/12/06	RGM
C9-C10 Aromatics(PID)	<10	10	ug/l	MADEP	1/12/06	RGM
SURROGATE			RANGE		1/12/06	RGM
2,5-Dibromotoluene(PID)	87		70-130%	MADEP	1/12/06	RGM
2,5-Dibromotoluene(FID)	95		70-130%	MADEP	1/12/06	RGM
EPH/PAH						
C9-C18 Aliphatics	<20	20	ug/l	MADEP	1/12/06	NR
C19-C36 Aliphatics	<20	20	ug/l	MADEP	1/12/06	NR
C11-C22 Aromatics	<20	20	ug/l	MADEP	1/12/06	NR
Total EPH	<60		ug/l	MADEP	1/12/06	NR
TARGET PAH ANALYTES					1/12/06	NR
Naphthalene	<5	5	ug/l	MADEP	1/12/06	NR
2-Methylnaphthalene	<5	5	ug/l	MADEP	1/12/06	NR
Acenaphthylene	<5	5	ug/l	MADEP	1/12/06	NR

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLC Consulting Group
Date Received: 1/9/06
Work Order #: 0601-00398

Approved by: _____
Data Reporting

Sample # 001
SAMPLE DESCRIPTION: MW-1
SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 1/06/2006 @ 14:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Acenaphthene	<5	5	ug/l	MADEP	1/12/06	NR
Fluorene	<5	5	ug/l	MADEP	1/12/06	NR
Phenanthrene	<5	5	ug/l	MADEP	1/12/06	NR
Anthracene	<5	5	ug/l	MADEP	1/12/06	NR
Fluoranthene	<5	5	ug/l	MADEP	1/12/06	NR
Pyrene	<5	5	ug/l	MADEP	1/12/06	NR
Benzo(a)anthracene	<5	5	ug/l	MADEP	1/12/06	NR
Chrysene	<5	5	ug/l	MADEP	1/12/06	NR
Benzo(b)fluoranthene	<5	5	ug/l	MADEP	1/12/06	NR
Benzo(k)fluoranthene	<5	5	ug/l	MADEP	1/12/06	NR
Benzo(a)pyrene	<5	5	ug/l	MADEP	1/12/06	NR
Indeno(1,2,3-cd)pyrene	<5	5	ug/l	MADEP	1/12/06	NR
Dibenzo(a,h)anthracene	<5	5	ug/l	MADEP	1/12/06	NR
Benzo(g,h,i)perylene	<5	5	ug/l	MADEP	1/12/06	NR
SURROGATES			RANGE		1/12/06	NR
Chloro-octadecane	53		40-140%	MADEP	1/12/06	NR
Ortho-terphenyl	77		40-140%	MADEP	1/12/06	NR
FRACTIONATION SURROGATES			RANGE		1/12/06	NR
2-Fluorobiphenyl	86		40-140%	MADEP	1/12/06	NR
2-Bromonaphthalene	87		40-140%	MADEP	1/12/06	NR
Extraction date	Extracted			MADEP	1/10/06	BNS
TOTAL DISSOLVED METALS						
ARSENIC	<0.1	0.1	mg/l	EPA 200.7	1/13/06	JNB
BARIUM	0.040	0.005	mg/l	EPA 200.7	1/12/06	JNB
CADMIUM	<0.005	0.005	mg/l	EPA 200.7	1/13/06	JNB
CHROMIUM	<0.03	0.03	mg/l	EPA 200.7	1/13/06	JNB
LEAD	<0.04	0.04	mg/l	EPA 200.7	1/13/06	JNB
MERCURY	<0.0005	0.0005	mg/l	EPA 245.1	1/11/06	REA
SELENIUM	<0.2	0.2	mg/l	EPA 200.7	1/13/06	JNB
SILVER	<0.02	0.02	mg/l	EPA 200.7	1/12/06	JNB

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLC Consulting Group
Date Received: 1/9/06
Work Order #: 0601-00398

Approved by: _____
Data Reporting

All QA/QC procedures required by the VPH Method were followed.
All Performance/Acceptance Standards for the required QA/QC procedures were achieved or otherwise stated.
No significant modifications were made to the VPH Method.

All QA/QC procedures required by the EPH Method were followed.
All Performance/Acceptance Standards for the required QA/QC procedures were achieved or otherwise stated.
No significant modifications were made to the EPH Method with the following exception: C-range values may have been blank subtracted to minimize the effect of leachable plasticizers from the SPE cartridges.

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLC Consulting Group
Date Received: 1/9/06
Work Order #: 0601-00398

Approved by: _____
Data Reporting

Sample # 002
SAMPLE DESCRIPTION: MW-2
SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 1/06/2006 @ 15:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
SPECIFIC CONDUCTANCE	400	1.0	uMHOS/CM	EPA 120.1	1/11/06	JW
TOTAL CYANIDE	<0.01	0.01	mg/l	EPA 335.2	1/11/06	HD
PCB						
Aroclor-1016	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1221	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1232	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1242	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1248	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1254	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1260	<1	1	ug/l	SW-846 8082	1/10/06	MFT
SURROGATE			RANGE	SW-846 8082	1/10/06	MFT
Tetrachloro-m-xylene (TCMX)	68		30-150%	SW-846 8082	1/10/06	MFT
Decachlorobiphenyl	35		30-150%	SW-846 8082	1/10/06	MFT
Extraction date	Extracted			SW846 3510	1/10/06	AO
VPH						
Unadjusted C5-C8 Aliphatics(FID)	<10	10	ug/l	MADEP	1/12/06	RGM
Unadjusted C9-C12 Aliphatics(FID)	<10	10	ug/l	MADEP	1/12/06	RGM
Methyl-tert-butylether	<5	5	ug/l	MADEP	1/12/06	RGM
Benzene	<5	5	ug/l	MADEP	1/12/06	RGM
Toluene	<5	5	ug/l	MADEP	1/12/06	RGM
Ethylbenzene	<5	5	ug/l	MADEP	1/12/06	RGM
m,p-Xylene	<5	5	ug/l	MADEP	1/12/06	RGM
o-Xylene	<5	5	ug/l	MADEP	1/12/06	RGM
Naphthalene	<5	5	ug/l	MADEP	1/12/06	RGM
Adjusted C5-C8 Aliphatics(FID)	<10	10	ug/l	MADEP	1/12/06	RGM
Adjusted C9-C12 Aliphatics(FID)	<10	10	ug/l	MADEP	1/12/06	RGM
C9-C10 Aromatics(PID)	<10	10	ug/l	MADEP	1/12/06	RGM
SURROGATE			RANGE		1/12/06	RGM
2,5-Dibromotoluene(PID)	93		70-130%	MADEP	1/12/06	RGM
2,5-Dibromotoluene(FID)	101		70-130%	MADEP	1/12/06	RGM
EPH/PAH						
C9-C18 Aliphatics	<20	20	ug/l	MADEP	1/12/06	NR
C19-C36 Aliphatics	<20	20	ug/l	MADEP	1/12/06	NR
C11-C22 Aromatics	<20	20	ug/l	MADEP	1/12/06	NR
Total EPH	<60		ug/l	MADEP	1/12/06	NR
TARGET PAH ANALYTES					1/12/06	NR
Naphthalene	<5	5	ug/l	MADEP	1/12/06	NR
2-Methylnaphthalene	<5	5	ug/l	MADEP	1/12/06	NR
Acenaphthylene	<5	5	ug/l	MADEP	1/12/06	NR

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLC Consulting Group
Date Received: 1/9/06
Work Order #: 0601-00398

Approved by: _____
Data Reporting

Sample # 002
SAMPLE DESCRIPTION: MW-2
SAMPLE TYPE: GRAB
SAMPLE DATE/TIME: 1/06/2006 @ 15:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Acenaphthene	<5	5	ug/l	MADEP	1/12/06	NR
Fluorene	<5	5	ug/l	MADEP	1/12/06	NR
Phenanthrene	<5	5	ug/l	MADEP	1/12/06	NR
Anthracene	<5	5	ug/l	MADEP	1/12/06	NR
Fluoranthene	<5	5	ug/l	MADEP	1/12/06	NR
Pyrene	<5	5	ug/l	MADEP	1/12/06	NR
Benzo(a)anthracene	<5	5	ug/l	MADEP	1/12/06	NR
Chrysene	<5	5	ug/l	MADEP	1/12/06	NR
Benzo(b)fluoranthene	<5	5	ug/l	MADEP	1/12/06	NR
Benzo(k)fluoranthene	<5	5	ug/l	MADEP	1/12/06	NR
Benzo(a)pyrene	<5	5	ug/l	MADEP	1/12/06	NR
Indeno(1,2,3-cd)pyrene	<5	5	ug/l	MADEP	1/12/06	NR
Dibenzo(a,h)anthracene	<5	5	ug/l	MADEP	1/12/06	NR
Benzo(g,h,i)perylene	<5	5	ug/l	MADEP	1/12/06	NR
SURROGATES			RANGE		1/12/06	NR
Chloro-octadecane	49		40-140%	MADEP	1/12/06	NR
Ortho-terphenyl	82		40-140%	MADEP	1/12/06	NR
FRACTIONATION SURROGATES			RANGE		1/12/06	NR
2-Fluorobiphenyl	88		40-140%	MADEP	1/12/06	NR
2-Bromonaphthalene	66		40-140%	MADEP	1/12/06	NR
Extraction date	Extracted			MADEP	1/10/06	BNS
TOTAL DISSOLVED METALS						
ARSENIC	<0.1	0.1	mg/l	EPA 200.7	1/13/06	JNB
BARIUM	0.006	0.005	mg/l	EPA 200.7	1/13/06	JNB
CADMIUM	<0.005	0.005	mg/l	EPA 200.7	1/13/06	JNB
CHROMIUM	<0.03	0.03	mg/l	EPA 200.7	1/13/06	JNB
LEAD	<0.04	0.04	mg/l	EPA 200.7	1/13/06	JNB
MERCURY	<0.0005	0.0005	mg/l	EPA 245.1	1/11/06	REA
SELENIUM	<0.2	0.2	mg/l	EPA 200.7	1/13/06	JNB
SILVER	<0.02	0.02	mg/l	EPA 200.7	1/12/06	JNB

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLC Consulting Group
Date Received: 1/9/06
Work Order #: 0601-00398

Approved by: _____
Data Reporting

All QA/QC procedures required by the VPH Method were followed.
All Performance/Acceptance Standards for the required QA/QC procedures were achieved or otherwise stated.
No significant modifications were made to the VPH Method.

All QA/QC procedures required by the EPH Method were followed.
All Performance/Acceptance Standards for the required QA/QC procedures were achieved or otherwise stated.
No significant modifications were made to the EPH Method with the following exception: C-range values may have been blank subtracted to minimize the effect of leachable plasticizers from the SPE cartridges.

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLC Consulting Group
Date Received: 1/9/06
Work Order #: 0601-00398

Approved by: _____
Data Reporting

Sample # 003
SAMPLE DESCRIPTION: MW-4
SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 1/06/2006 @ 16:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
SPECIFIC CONDUCTANCE	11000	1.0	uMHOS/CM	EPA 120.1	1/11/06	JW
TOTAL CYANIDE	<0.01	0.01	mg/l	EPA 335.2	1/11/06	HD
PCB						
Aroclor-1016	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1221	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1232	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1242	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1248	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1254	<1	1	ug/l	SW-846 8082	1/10/06	MFT
Aroclor-1260	<1	1	ug/l	SW-846 8082	1/10/06	MFT
SURROGATE			RANGE	SW-846 8082	1/10/06	MFT
Tetrachloro-m-xylene (TCMX)	68		30-150%	SW-846 8082	1/10/06	MFT
Decachlorobiphenyl	41		30-150%	SW-846 8082	1/10/06	MFT
Extraction date	Extracted			SW846 3510	1/10/06	AO
VPH						
Unadjusted C5-C8 Aliphatics(FID)	<10	10	ug/l	MADEP	1/12/06	RGM
Unadjusted C9-C12 Aliphatics(FID)	<10	10	ug/l	MADEP	1/12/06	RGM
Methyl-tert-butylether	<5	5	ug/l	MADEP	1/12/06	RGM
Benzene	<5	5	ug/l	MADEP	1/12/06	RGM
Toluene	<5	5	ug/l	MADEP	1/12/06	RGM
Ethylbenzene	<5	5	ug/l	MADEP	1/12/06	RGM
m,p-Xylene	<5	5	ug/l	MADEP	1/12/06	RGM
o-Xylene	<5	5	ug/l	MADEP	1/12/06	RGM
Naphthalene	<5	5	ug/l	MADEP	1/12/06	RGM
Adjusted C5-C8 Aliphatics(FID)	<10	10	ug/l	MADEP	1/12/06	RGM
Adjusted C9-C12 Aliphatics(FID)	<10	10	ug/l	MADEP	1/12/06	RGM
C9-C10 Aromatics(PID)	<10	10	ug/l	MADEP	1/12/06	RGM
SURROGATE			RANGE		1/12/06	RGM
2,5-Dibromotoluene(PID)	88		70-130%	MADEP	1/12/06	RGM
2,5-Dibromotoluene(FID)	92		70-130%	MADEP	1/12/06	RGM
EPH/PAH						
C9-C18 Aliphatics	<20	20	ug/l	MADEP	1/12/06	NR
C19-C36 Aliphatics	26	20	ug/l	MADEP	1/12/06	NR
C11-C22 Aromatics	<20	20	ug/l	MADEP	1/12/06	NR
Total EPH	<60		ug/l	MADEP	1/12/06	NR
TARGET PAH ANALYTES					1/12/06	NR
Naphthalene	<5	5	ug/l	MADEP	1/12/06	NR
2-Methylnaphthalene	<5	5	ug/l	MADEP	1/12/06	NR
Acenaphthylene	<5	5	ug/l	MADEP	1/12/06	NR

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLC Consulting Group
Date Received: 1/9/06
Work Order #: 0601-00398

Approved by: _____
Data Reporting

Sample # 003
SAMPLE DESCRIPTION: MW-4
SAMPLE TYPE: GRAB
SAMPLE DATE/TIME: 1/06/2006 @ 16:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Acenaphthene	<5	5	ug/l	MADEP	1/12/06	NR
Fluorene	<5	5	ug/l	MADEP	1/12/06	NR
Phenanthrene	<5	5	ug/l	MADEP	1/12/06	NR
Anthracene	<5	5	ug/l	MADEP	1/12/06	NR
Fluoranthene	<5	5	ug/l	MADEP	1/12/06	NR
Pyrene	<5	5	ug/l	MADEP	1/12/06	NR
Benzo(a)anthracene	<5	5	ug/l	MADEP	1/12/06	NR
Chrysene	<5	5	ug/l	MADEP	1/12/06	NR
Benzo(b)fluoranthene	<5	5	ug/l	MADEP	1/12/06	NR
Benzo(k)fluoranthene	<5	5	ug/l	MADEP	1/12/06	NR
Benzo(a)pyrene	<5	5	ug/l	MADEP	1/12/06	NR
Indeno(1,2,3-cd)pyrene	<5	5	ug/l	MADEP	1/12/06	NR
Dibenzo(a,h)anthracene	<5	5	ug/l	MADEP	1/12/06	NR
Benzo(g,h,i)perylene	<5	5	ug/l	MADEP	1/12/06	NR
SURROGATES			RANGE		1/12/06	NR
Chloro-octadecane	42		40-140%	MADEP	1/12/06	NR
Ortho-terphenyl	77		40-140%	MADEP	1/12/06	NR
FRACTIONATION SURROGATES			RANGE		1/12/06	NR
2-Fluorobiphenyl	87		40-140%	MADEP	1/12/06	NR
2-Bromonaphthalene	88		40-140%	MADEP	1/12/06	NR
Extraction date	Extracted			MADEP	1/10/06	BNS
TOTAL DISSOLVED METALS						
ARSENIC	<0.1	0.1	mg/l	EPA 200.7	1/13/06	JNB
BARIUM	0.029	0.005	mg/l	EPA 200.7	1/13/06	JNB
CADMIUM	<0.005	0.005	mg/l	EPA 200.7	1/13/06	JNB
CHROMIUM	<0.03	0.03	mg/l	EPA 200.7	1/13/06	JNB
LEAD	<0.04	0.04	mg/l	EPA 200.7	1/13/06	JNB
MERCURY	<0.0005	0.0005	mg/l	EPA 245.1	1/11/06	REA
SELENIUM	<0.2	0.2	mg/l	EPA 200.7	1/13/06	JNB
SILVER	<0.02	0.02	mg/l	EPA 200.7	1/12/06	JNB

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLC Consulting Group
Date Received: 1/9/06
Work Order #: 0601-00398

Approved by: _____
Data Reporting

All QA/QC procedures required by the VPH Method were followed.
All Performance/Acceptance Standards for the required QA/QC procedures were achieved or otherwise stated.
No significant modifications were made to the VPH Method.

All QA/QC procedures required by the EPH Method were followed.
All Performance/Acceptance Standards for the required QA/QC procedures were achieved or otherwise stated.
No significant modifications were made to the EPH Method with the following exception: C-range values may have been blank subtracted to minimize the effect of leachable plasticizers from the SPE cartridges.

CHAIN OF CUSTODY RECORD

R.I. Analytical Laboratories, Inc.

41 Illinois Avenue
Warwick, RI 02888
Tel: 800-937-2580
Fax: 401-738-1970

131 Coolidge St, Bldg. 2
Hudson, MA 01749
Tel: 888-228-3334
Fax: 978-568-0078

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type T	Preservation Code P	Matrix Code M	VPH w/ tamda	EPH w/ PAHs	RCRA-8	Cyanide	PCBs	Added Specific product, per Mike Bradbury 11/9/06
01-06-06	2:00	MW-1	G	2-V	H	GW	X					
	2:00	MW-1	G	1-AG	H	GW		X				
	2:00	MW-1	G	2-AG	NP	GW			X	X	X	
	3:00	MW-2	G	2-V	H	GW	X					
	3:00	MW-2	G	1-AG	H	GW		X				
	3:00	MW-2	G	2-AG	NP	GW			X	X	X	
	4:00	MW-4	G	2-V	H	GW	X					
	4:00	MW-4	G	1-AG	H	GW		X				
	4:00	MW-4	G	2-AG	NP	GW			X	X	X	

Client Information

Company Name: CLC Consulting Group
Address: P.O. Box 9531
City / State / Zip: Fall River MA 02720
Telephone: 508 353 1318 Fax: 508 674 4849
Contact Person: Cheryl Coderre

Project Information

Project Name: Shuster Corp
P.O. Number: Project Number:
Report To: CLC Phone: Fax:
Sampled by: C Coderre
Quote No: Email address:

Relinquished By	Date	Time	Received By	Date	Time
Cheryl Coderre	01-09	9:00am	[illegible]	01/09/06	9:05
[illegible]	01/09/06	1754	Leslie R Ray	1/9/06	1754

Turn Around Time

- ✓ Normal — EMAIL Report
- 5 Business days. Possible surcharge.
- Rush _____ (business days)

Project Comments

Circle if applicable: GW-1, GW-2, GW-3, S-1, S-2, S-3 MCP Data Enhancement QC Package? Yes No

Metals need to be filtered in lab. Please do field type measurements to analyze for saltwater intrusion.

Lab Use Only

- ✓ Sample Pick Up Only
- RIAL sampled; attach field hours
- ✓ Shipped on ice

Workorder No: 0601-00398

Container Types: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservation Codes: NP=None, N=HNO_3, H=HCl, S=H_2SO_4, SH=NaOH, SB=$NaHSO_4$, M=MeOH, T=$Na_2S_2O_3$, Z=ZnOAc, I=Ice

Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, Sl=Sludge, A=Air, B=Bulk/Solid, O=_____

R.I. Analytical

Specialists in Environmental Services

CERTIFICATE OF ANALYSIS

CLC Consulting Group
Attn: Ms. Cheryl Coderre
P.O. Box 9531
31 Hanson Street
Fall River, MA 02720

Date Received: 1/20/06
Date Reported: 1/26/06
P.O. #:
Work Order #: 0601-01203

DESCRIPTION: SHUSTER CORPORATION (THREE SOIL SAMPLES)

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies and all NELAC requirements were met. The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844, NY-11726

If you have any questions regarding this work, or if we may be of further assistance, please contact us.

Approved by:

Data Reporting

enc: Chain of Custody

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLC Consulting Group
Date Received: 1/20/06
Work Order #: 0601-01203

Approved by: _____
Data Reporting

Sample # 001
SAMPLE DESCRIPTION: B-2 0'-5'
SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 12/29/2005 @ 11:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
TOTAL CYANIDE	<11	11	mg/kg dry	SW-846 9010A	1/25/06	HD
PAH						
Naphthalene	<2	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Acenaphthylene	<2	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Acenaphthene	<2	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Fluorene	<2	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Phenanthrene	6	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Anthracene	3	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Fluoranthene	23	7	mg/kg dry	SW-846 8270C	1/24/06	PJG
Pyrene	19	7	mg/kg dry	SW-846 8270C	1/24/06	PJG
Benzo(a)anthracene	13	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Chrysene	11	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Benzo(b)fluoranthene	14	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Benzo(k)fluoranthene	7	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Benzo(a)pyrene	13	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Indeno(1,2,3-cd)pyrene	4	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Dibenzo(a,h)anthracene	<2	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Benzo(g,h,i)perylene	4	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
2-Methylnaphthalene	<2	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Dibenzofuran	<2	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
MOISTURE	12		%	SM2540 G.	1/23/06	AO
SURROGATES			RANGE	SW-846 8270C	1/24/06	PJG
Nitrobenzene-d5	69		23-120%	SW-846 8270C	1/24/06	PJG
2-Fluorobiphenyl	69		30-115%	SW-846 8270C	1/24/06	PJG
P-Terphenyl-d14	84		18-137%	SW-846 8270C	1/24/06	PJG
Extraction date	Extracted			SW846 3545	1/23/06	AO
TOTAL METALS						
LEAD	78	2.2	mg/kg dry	SW-846 6010	1/24/06	JNB

Method 8270C: Increased detection limit due to extract matrix.

Dilution factor=3x

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLC Consulting Group
Date Received: 1/20/06
Work Order #: 0601-01203

Approved by: _____
Data Reporting

Sample # 002
SAMPLE DESCRIPTION: B-4 1'-3'
SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 12/29/2005 @ 12:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
TOTAL CYANIDE	<11	11	mg/kg dry	SW-846 9010A	1/25/06	HD
PAH						
Naphthalene	<2	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Acenaphthylene	<2	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Acenaphthene	<2	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Fluorene	<2	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Phenanthrene	13	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Anthracene	3	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Fluoranthene	17	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Pyrene	16	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Benzo(a)anthracene	8	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Chrysene	7	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Benzo(b)fluoranthene	8	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Benzo(k)fluoranthene	4	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Benzo(a)pyrene	7	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Indeno(1,2,3-cd)pyrene	3	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Dibenzo(a,h)anthracene	<2	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Benzo(g,h,i)perylene	2	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
2-Methylnaphthalene	<2	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
Dibenzofuran	<2	2	mg/kg dry	SW-846 8270C	1/24/06	PJG
MOISTURE	15		%	SM2540 G.	1/23/06	AO
SURROGATES			RANGE	SW-846 8270C	1/24/06	PJG
Nitrobenzene-d5	64		23-120%	SW-846 8270C	1/24/06	PJG
2-Fluorobiphenyl	64		30-115%	SW-846 8270C	1/24/06	PJG
P-Terphenyl-d14	79		18-137%	SW-846 8270C	1/24/06	PJG
Extraction date	Extracted			SW846 3545	1/23/06	AO
TOTAL METALS						
LEAD	140	2.3	mg/kg dry	SW-846 6010	1/24/06	JNB

Method 8270C: Increased detection limit due to extract matrix.

Dilution factor=3x

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLC Consulting Group
Date Received: 1/20/06
Work Order #: 0601-01203

Approved by: _____
Data Reporting

Sample # 003
SAMPLE DESCRIPTION: B-6 2'-3'
SAMPLE TYPE: GRAB
SAMPLE DATE/TIME: 12/29/2005 @ 13:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
TOTAL CYANIDE	<12	12	mg/kg dry	SW-846 9010A	1/25/06	HD
PAH						
Naphthalene	<0.7	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
Acenaphthylene	<0.7	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
Acenaphthene	<0.7	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
Fluorene	<0.7	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
Phenanthrene	2.1	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
Anthracene	<0.7	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
Fluoranthene	3.0	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
Pyrene	2.8	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
Benzo(a)anthracene	1.6	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
Chrysene	1.5	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
Benzo(b)fluoranthene	1.9	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
Benzo(k)fluoranthene	<0.7	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
Benzo(a)pyrene	1.4	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
Indeno(1,2,3-cd)pyrene	<0.7	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
Dibenzo(a,h)anthracene	<0.7	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
Benzo(g,h,i)perylene	<0.7	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
2-Methylnaphthalene	<0.7	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
Dibenzofuran	<0.7	0.7	mg/kg dry	SW-846 8270C	1/25/06	PJG
MOISTURE	20		%	SM2540 G.	1/23/06	AO
SURROGATES			RANGE	SW-846 8270C	1/25/06	PJG
Nitrobenzene-d5	64		23-120%	SW-846 8270C	1/25/06	PJG
2-Fluorobiphenyl	64		30-115%	SW-846 8270C	1/25/06	PJG
P-Terphenyl-d14	73		18-137%	SW-846 8270C	1/25/06	PJG
Extraction date	Extracted			SW846 3545	1/23/06	AO
TOTAL METALS						
LEAD	230	2.4	mg/kg dry	SW-846 6010	1/25/06	JNB

R.I. Analytical

Specialists in Environmental Services

Case Narrative

Date: 01/31/06

CLC Consulting Group
Attn: Ms. Cheryl Coderre
P.O. Box 9531
31 Hanson Street
Fall River, MA 02720

Project: SHUSTER CORPORATION

RIAL WO# 0601-01203

There were no exceptions or analytical issues to discuss concerning the testing requirements for the project.

Michael J. Hobin
QA/QC Manager

41 Illinois Avenue, Warwick, RI 02888
Tel: (401) 737-8500 Fax: (401) 738-1970

ACCREDITED IN ACCORDANCE WITH nelac

131 Coolidge Street, Bldg 2, Hudson, MA 01749
Tel: (978) 568-0041 Fax: (978) 568-0078

R.I. Analytical

Specialists in Environmental Services

Customer Name : CLC Consulting Group

W.O. Number 0601-01203

MADEP MCP Response Action Analytical Report Certification Form	
Laboratory Name: R.I. Analytical Laboratories	Work Order No: 0601-01203
Project / Location: SHUSTER CORPORATION (THREE SOIL SAMPLES)	MADEP RTN 1 :
This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]	
0601-01203-001 thru -003	

Sample Matrices: ☐ Groundwater ☒ Soil / Sediment ☐ Drinking Water ☐ Other :

M C P SW-846 As specified in MADEP Compendium of Analytical Methods (check all that apply)					
	8260B ( )	8151A ( )	8330 ( )	6010B(X)	7470A/1A( )
	8270C(X)	8081A ( )	VPH ( )	6020 ( )	9014M 2 ( )
	8082 ( )	8021B ( )	EPH ( )	7000 S 3 ( )	OTHER (X)
	1 List Release Tracking Number (RTN), if known 2 M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method 3 S - SW-846 Methods 7000 Series. List individual method and analyte.				

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of Custody documentation for the data set?	☒ Yes ☐ No 1
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	☒ Yes ☐ No 1
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty ", as described in Section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Aquisition and Reporting of Analytical Data"?	☒ Yes ☐ No 1
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	☐ Yes ☐ No 1

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all QC performance standards and recommendations for the specified methods achieved?	☒ Yes ☐ No 1
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	☒ Yes ☐ No 1

1 *All NO answers must be addressed in an attached Environmental Laboratory case narrative.*

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

Signature _____ Date: 1/31/06

Mike Hobin / QA/QC Manager

ACCREDITED IN ACCORDANCE WITH nelac

41 Illinois Avenue, Warwick, RI 02888
Tel: (401) 737-8500 Fax: (401) 738-1970

131 Coolidge Street, Bldg 2, Hudson, MA 01749
Tel: (978) 568-0041 Fax: (978) 568-0078

RI Analytical Laboratories, Inc.
QA/QC Report

Client: CLC Consulting Group
W.O. #: 0601-01203
Date: 01/30/2006

-Method Blank Results-

Parameter	Units	Results	Date Analyzed
Cyanide	mg/kg dry	<10	01/25/2006

-Laboratory Control Standard-

Parameter	Units	Spike Conc.	Detected Conc.	% Rec.	Date Analyzed
Cyanide	mg/kg dry	100	99	99	01/25/2006

-Laboratory Control Standard Duplicate-

Parameter	Units	Spike Conc.	Detected Conc.	% Rec.	RPD	Date Analyzed
Cyanide	mg/kg dry	100	98	98	1	01/25/2006

-Replicate Sample Results-

Parameter	Units	Sample #	Rep. 1 Conc.	Rep. 2 Conc.	Mean Conc.	Reported Value	RPD	Date Analyzed
Cyanide	mg/kg dry	01203-1	<11	<11	<11	<11	0	01/25/2006

-Matrix Spike Results-

Parameter	Units	Sample #	Sample Conc.	Spike Conc.	Detected Conc.	% Rec.	Date Analyzed
Cyanide	mg/kg dry	01203-3	<12	115	116	101	01/25/2006

RI Analytical Laboratories, Inc.
QA/QC Report

Client: CLC Consulting Group
W.O. #: 0601-01203
Date: 01/30/2006

-Method Blank Results-

Parameter	Units	Results	Date Analyzed
Lead	mg/kg dry	<2.0	1/24/2006

-LCS-

Parameter	Units	Known Conc.	Detected Conc.	% Rec.	Date Analyzed
Lead	mg/kg dry	50	50	100	1/24/2006

-LCS dup-

Parameter	Units	Known Conc.	Detected Conc.	% Rec.	Date Analyzed
Lead	mg/kg dry	50	49	98	1/24/2006

METHOD 8270

SEMI-VOLATILE ORGANICS METHOD BLANK DATA SHEET

Lab Name: RI ANALYTICAL

CLIENT: CLC Consulting Group

W.O #: 0601-01203

COMPOUND	CONCENTRATION UNITS: mg/kg dry
Naphthalene	<0.7
Acenaphthylene	<0.7
Acenaphthene	<0.7
Fluorene	<0.7
Phenanthrene	<0.7
Anthracene	<0.7
Fluoranthene	<0.7
Pyrene	<0.7
Benzo(a)anthracene	<0.7
Chrysene	<0.7
Benzo(b)fluoranthene	<0.7
Benzo(k)fluoranthene	<0.7
Benzo(a)pyrene	<0.7
Indeno(1,2,3-cd)pyrene	<0.7
Dibenzo(a,h)anthracene	<0.7
Benzo(g,h,i)perylene	<0.7
2-Methylnaphthalene	<0.7
Dibenzofuran	<0.7
Nitrobenzene-d5	60
2-Fluorobiphenyl	59
P-Terphenyl-d14	63

METHOD 8270

SEMI-VOLATILE ORGANICS LCS/LCS DUPLICATE DATA SHEET

Lab Name: RI ANALYTICAL

Client: CLC Consulting Group

W.O. # 0601-01203

COMPOUND	SPIKE CONC. mg/kg dry	LCS CONC. mg/kg dry	LCS % REC.	LCS DUP. CONC. mg/kg dry	LCS DUP. % REC.	RPD
Naphthalene	3.3	2.8	85	2.3	70	20
Acenaphthylene	3.3	2.6	79	2.2	67	17
Acenaphthene	3.3	2.7	82	2.2	67	20
Fluorene	3.3	2.8	85	2.2	67	24
Phenanthrene	3.3	2.8	85	2.3	70	20
Anthracene	3.3	2.8	85	2.3	70	20
Fluoranthene	3.3	2.9	88	2.4	73	19
Pyrene	3.3	2.5	76	2.1	64	17
Benzo(a)anthracene	3.3	2.7	82	2.2	67	20
Chrysene	3.3	2.6	79	2.2	67	17
Benzo(b)fluoranthene	3.3	2.8	85	1.9	58	38
Benzo(k)fluoranthene	3.3	2.8	85	2.4	73	15
Benzo(a)pyrene	3.3	2.8	85	2.3	70	20
Indeno(1,2,3-cd)pyrene	3.3	3.0	91	2.4	73	22
Dibenzo(a,h)anthracene	3.3	3.0	91	2.4	73	22
Benzo(g,h,i)perylene	3.3	3.1	94	2.5	76	21
2-Methylnaphthalene	3.3	2.8	85	2.3	70	20
Dibenzofuran	3.3	2.7	82	2.2	67	20
Nitrobenzene-d5			81		64	
2-Fluorobiphenyl			93		66	
P-Terphenyl-d14			84		63	

R.I. Analytical

Specialists in Environmental Services

CERTIFICATE OF ANALYSIS

CLC Consulting Group
Attn: Ms. Cheryl Coderre
P.O. Box 9531
31 Hanson Street
Fall River, MA 02720

Date Received: 1/20/2006
Date Reported: 1/25/2006
Work Order #: 0601-01205

Enclosed please find your sample(s) analysis results for asbestos content. The six asbestos types include amosite, chrysotile, crocidolite, anthophyllite, tremolite, and actinolite.

METHODOLOGY: Polarized Light Microscopy (PLM) as suggested by EPA/600/R-93/116, July 1993 edition.

If the samples are found to be inhomogeneous, individual components will be analyzed separately. If individual components cannot be separated, the samples will be homogenized and a single result will be provided for the entire sample.

Sample results pertain only to items tested. The report must not be reproduced except in full with permission of R.I. Analytical. Samples submitted for analysis will be retained for three months for your future reference.

Our laboratory maintains NVLAP accreditation for bulk asbestos fiber analysis NVLAP lab code 101440-0.

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government.

If you have any questions regarding this report, or if we may be of further assistance, please contact us.

Approved by:

Data Reporting

41 Illinois Avenue, Warwick, RI 02888
Tel: (401) 737-8500 Fax: (401) 738-1970

ACCREDITED IN ACCORDANCE WITH nelac

131 Coolidge Street, Bldg 2, Hudson, MA 01749
Tel: (978) 568-0041 Fax: (978) 568-0078

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

CLC Consulting Group
Date Received: 1/20/2006
Work Order #: 0601-01205
Site Location:SHUSTER CORPORATION (ONE SOIL SAMPLE)

Approved by: _____
Data Reporting

METHOD: EPA/600/R-93-116

AMPLE O.	SAMPLE DESCRIPTION	PARAMETER	SAMPLE RESULTS / UNITS		DATE ANALYZED	ANALYST
)1	B-6 2-3'	PLM FIBER ANALYSIS				
		ASBESTOS	POSITIVE		1/25/2006	EDN
		Chrysotile	5-15	%	1/25/2006	EDN
		Non-fibrous	85-95	%	1/25/2006	EDN
		Sample Color	Brown		1/25/2006	EDN

CHAIN OF CUSTODY RECORD

R.I. Analytical Laboratories, Inc.

41 Illinois Avenue
Warwick, RI 02888
Tel: 800-937-2580
Fax: 401-738-1970

131 Coolidge St, Bldg. 2
Hudson, MA 01749
Tel: 888-228-3334
Fax: 978-568-0078

Date Collected	Time Collected	Field Sample Identification		Grab or Composite	# of Containers & Type	Preservation Code P	Matrix Code M	PAH 5	Cyanide	Lead	Asbestos (TSP) Bulk Analysis
12-29-05	11:30am	B-2	0-5'	G	1/G	NP	S	X	X	X	
	12:30	B-4	1-3'	G	2/G	NP	S	X	X	X	
	1:30	B-6	2-3'	G	2/G	NP	S	X	X	X	
✓	1:30	B-6	2-3'	G	1/G	NP					X

Client Information		Project Information			
Company Name:	CLC Consulting Group	Project Name:	Shuster Corp		
Address:	P.O. Box 9531	P.O. Number:		Project Number:	
City / State / Zip:	Fall River MA 02720	Report To:	CLC	Phone:	Fax:
Telephone:	508 353 1318 Fax: 508 674 4849	Sampled by:	CLC		
Contact Person:	Cheryl L. Coderre	Quote No:		Email address:	clcconsultinggrp@aol

Relinquished By	Date	Time	Received By	Date	Time
Cheryl Coderre	1-20-06	9:30am	[signature]	01/20/06	1635
[signature]	01/20/06	1745			

Turn Around Time		
✓	Normal	EMAIL Report
	5 Business days. Possible surcharge.	
	Rush _____ (business days)	

Project Comments

Circle if applicable: GW-1, GW-2, GW-3, S-1, S-2, S-3 MCP Data Enhancement QC Package? Yes No

0601-01205

Lab Use Only	
✓	Sample Pick Up Only
	RIAL sampled; attach field hours
✓	Shipped on ice
Workorder No:	0601-01202

Container Types: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile

Preservation Codes: NP=None, N=HNO_3, H=HCl, S=H_2SO_4, SH=NaOH, SB=$NaHSO_4$, M=MeOH, T=$Na_2S_2O_3$, Z=ZnOAc, I=Ice

Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, Sl=Sludge, A=Air, B=Bulk/Solid, O=_____

APPENDIX H

EPA CONTRACT NO. 68-W6-0042
EPA WORK ASSIGNMENT NO. 043-SISI-01ZZ

EPA Project Officer: Diana King
EPA Work Assignment Manager: Jim Byrne

BACKGROUND SUMMARY MEMORANDUM FOR STANDARD TIMES FIELD SITE NEW BEDFORD, MASSACHUSETTS

BROWNFIELDS TARGETED SITE ASSESSMENTS

May 1999

Prepared By:

M&E
AQUA ALLIANCE

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Appendix A EDR Database Search Report
Appendix B Historical Sanborn Map Report
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EXECUTIVE SUMMARY

Metcalf & Eddy, Inc. (M&E) prepared this Background Summary Memorandum for the property at South Front Street, known as Standard Times Field, in the city of New Bedford. This report was prepared for the U.S. Environmental Protection Agency. The purpose of the memorandum is to provide a summary of all reasonably available environmental information related to the site. This report will be used as background information for the determination of additional assessment activities for the property.

The site is bordered by the Acushnet River to the east, paved areas and Gifford Street to the south, residential and small business properties to the west, and commercial properties to the north. The site is currently vacant and is owned by the city. It contains tall grass, bush, and tree overgrowth, along with scattered rubbish and piles of fill and debris materials. Active recreational areas, including a baseball field, basketball court, and a bike path are located near the southern portion of the site.

Previous uses and features of the subject site included textile mill work and associated buildings in the late 1800s and early 1900s. The former buildings were shown to be demolished by the 1930s in historical plans. Other uses appear to be limited to the support of construction business and hydraulic projects along the river and recreational activities.

Environmental assessment reports were reviewed for the site. Three reports were made available by the city. The reports include limited subsurface investigations and summaries of records reviews. Some soil samples from these assessments indicated the presence of relatively low levels of petroleum hydrocarbons, metals, and PCBs (<2.0 ppm). The reports do not indicate spills or releases of oil or hazardous materials at the site.

A review of an environmental database search indicated that the subject site was not listed on any state or federal database. Some surrounding properties were listed, including two properties adjacent to the northwest corner of the site. These two properties were listed as having a release of oil to the subsurface soil and groundwater.

The city has plans to subdivide the area and promote the subdivisions to businesses related to commercial fishing industry.

1.0 INTRODUCTION

The Background Summary Memorandum for the property known as Standard Times Field has been prepared in accordance with the Work Plan developed by Metcalf & Eddy (1999) for conducting the Brownfields Targeted Site Assessments (BTSAs) Work Assignment, No. 043-SISI-01ZZ, under EPA's Response Action Contract (RAC). The Standard Times Field property is located off of South Front Street in New Bedford, Massachusetts.

Information in this memorandum includes the site location and current conditions, historical uses of the property, and summaries of regulatory information for the site and surrounding properties from the review of environmental database searches and existing reports. Background and information sources used for this memorandum included the city of New Bedford's BTSA application, environmental reports submitted by the city, records and reports available at city and state agencies, environmental database search of state and federal regulatory agencies, historical Sanborn maps and topographic maps, and a limited site survey (drive-by). No formal site visit, interviews, or sampling activities, such as data measurements, were conducted.

The report is divided into the following sections:

2.0 - Scope of Work
3.0 - Site Overview
4.0 - Regulatory and Government Agency Review
5.0 - Previous/ongoing Environmental Investigation/Remediation Activities at or Near the Site
6.0 - Summary of Findings
7.0 - Statement of Limitations

The purpose of this memorandum is to summarize reasonably available information related to the site for use by M&E and its client, the U.S. EPA, for conducting a formal site visit and developing scope for conducting subsequent assessment activities in support of the objectives of EPA's BTSA program.

2.0 SCOPE OF WORK

In preparation of this memorandum, the following activities were conducted by M&E:

- Collection and review of readily available site information, including the BTSA Application by the city, historical topographic maps and Sanborn maps, and other publicly available information from municipal offices and departments and the regional Massachusetts Department of Protection (MADEP) office.

- Review of an environmental database search performed by Environmental Data Resources, Inc. (EDR), which included the following:

  - Federal environmental regulatory databases
  - State environmental regulatory databases
  - Geological and hydrogeological databases

- Conduct a limited site survey, or drive-by visual evaluation, of the subject and abutting properties for review of current site conditions and general features

- Contact of local and state points-of-contact (POCs)

- Review of previous environmental investigation reports, including:

  - M.G.L. 21E Assessment Report for Property at Front Street - June 1986, prepared by Kurz Associates, Inc. for Lantz and Mulford

  - Preliminary Assessment Review of the Playground Near South Terminal - September 1989, prepared by NUS Corporation for U. S. Environmental Protection Agency

  - Environmental Site Assessment, Palmers Cove - February 1991, prepared by GZA Geoenvironmental, Inc. for Warren Five Cent Savings Bank

  - Additional Environmental Assessment Services, Palmers Cove Site - April 1993, prepared by GZA Geoenvironmental, Inc. for Warren Five Cent Savings Bank

In addition to the above reports, according to the city, other studies have been conducted for Warren Five Cent Savings Bank; however, this information is not available.

The activities performed in preparation of this memorandum closely followed the requirements of ASTM E 1527-97 for conducting environmental site assessments.

3.0 SITE OVERVIEW

Background information on the Standard Times Field property was reviewed and is summarized below. Sources of information used includes the city's BTSA application, historical Sanborn maps provided by the city's Building Department, utility plans from the city's Engineering Department, previous environmental reports (Section 2.0), historical topographic maps, and a database search provided by EDR. In addition, information gathered from a limited site survey of the property and available information from municipal offices and departments and the regional MADEP office is included in this section where relevant. This survey was performed by driving and walking the perimeter of the site and viewing site features from public accesses and rights-of-way.

3.1 Location

The Standard Times Field property (the Site) is located in the city of New Bedford, off of South Front Street, and bordered by parking areas parallel to Gifford Street to the South, and the Achusnet River to the East. Various commercial properties border the Site to the North. The Site is approximately 25.5 acres in size according to the city's BTSA application. The Site coordinates are 41°37'16.0"11 latitude and 70°55'3.7" longitude according to the EDR report. The regional area is urban with dense residential and commercial property. Much of the area that borders the river is established for various marine related businesses.

3.2 Site Ownership and Use History

According to available records and information, the Site was used to support the textile milling industry in the late 1800s and early 1900s. Since that time, site use records are limited, but the Site has had a number of different owners. It is likely that the Site was used to store construction equipment and fill materials to support the construction business and marine services. In the later decades of the 1900s the site was used for recreational uses. The site history as constructed from available information is summarized as follows:

1880s - 1930s:	The Site was used for mill work, both the Achusnet and Potomska Mills operated on the property.
1930s - 1940s:	The Site was owned by the city of New Bedford. There are no records of use; however, the mill buildings had been demolished, likely some time between 1923 and 1935.

1946 - 1966:	The Site was owned by E. Anthony & Sons, Inc. The only record of use was that of the U.S. Army Corps of Engineers in 1963. The site was used as a staging area for the construction of the hurricane barrier in the river.
1966 - 1983:	The Site was owned Ottaway News and Radio.
1983 - 1992:	The Site was owned by Palmers Island Corporation and then Palmers Cove Limited Partnership.
1992 - 1998:	The Site was owned by the Warren Five Cents Savings Bank.
1998 - present:	The Site is currently owned by the city of New Bedford. It is primarily vacant and there are no formal operations or uses conducted on the property.

3.3 Site Features and Utilities

The Historical Sanborn Fire Insurance map database was searched by EDR for the subject property. Several maps were available for review from the years 1888, 1893, 1906, 1924, 1950, 1990, 1992, 1993, and 1995 (Appendix B).

The maps dated 1888 through 1924 indicate mill structures and associated uses at the Site. Of particular interest, these older maps show a "gas holder" and an associated building in the northeast corner of the current property, a transformer in the south section, and a buried fuel tank in the south/southeast corner (near the vicinity of the current baseball field). The buried tank is listed on the 1924 map as having a storage capacity of 150,000 gallons. There are no records of this tank being removed, nor was it identified in any previous environmental reports conducted at the Site. The Sanborn map for 1950 indicates that the buildings had been removed by that time. Maps from the 1990s show a vacant lot with one radio tower.

Historical topographic maps were available for the years 1948, 1963, 1964, 1977, and 1979. Similar to the Sanborn maps for these years, the topographic maps indicate that the property was vacant or has been used as a playground or recreational area. Historical aerial photographs were not available for review by EDR.

Currently, the lot is primarily vacant. The city is the current site owner and does not operate on the property. There is one radio tower, about 200 feet tall, on the Site and a small structure that may be used as a radio station. It is not known whether this building is utilized. Other facilities

on the Site include a baseball field and basketball court, located in the southwest corner of the Site. These areas may still be active.

Currently, there are no known sources of electric or gas utilities at the Site, with the exception of pole-mounted lights that were once used for ballfields. A stormwater drain crosses the center of the Site from west to east and extends from Blackmer Street. Another drain extends along the Northern boundary of the Site. A sewer pipe was located in the center of the Site but it not likely used at this time. These features are located on the site plan (Figure 2).

3.4 Environmental Conditions

A review of topographic maps indicates that the topography of the area slopes in a east, southeast direction. The surficial topography for most of the Site slopes slightly in the same direction, towards the river. A review of previous assessment reports indicates that the Site's subsurface consists of a sandy fill over a small layer of peat and coarse gravel, with some mixture of brick, wood, and cinder, indicating that previous structures may have been demolished in place. On average, depth to groundwater ranges from 4 to 5 feet below the ground surface.

No hazardous materials are known to be stored at the Site. The city does not store or allow the storage of any materials at the Site. Currently, no wastes are generated at the property and there are no air pollution controls or issues identified at the Site. Asbestos-containing materials and lead-based paint may have been used at one time within the mill buildings; however, there are no formal records or reports of sampling and analysis being conducted that indicate that the presence of either material was evaluated at the Site. Several previous studies (NUS, 1989 and Kurtz, 1986) indicate that dredge spoils from the Harbor have been placed in the recreational areas and fill materials have been used throughout the Site.

Some limited sampling of soil and groundwater has been undertaken at the Site. Kurtz Associates' 21E assessment (1986) reported the presence of relatively low levels of PCBs (up to <1.9 ppm) and oil and grease (up to 0.707%) in two of five subsurface soil samples collected from test pits in the vicinity of the radio tower (to the south and southeast). According to the historical maps, at least one transformer was located on the property. Groundwater samples collected from water that seeped into the test pits was collected and analyzed for volatile organic compounds, of which none were detected. Subsequent sampling efforts by GZA Geoenvironmental (1991 and 1993) did not report PCBs in soil, but did confirmed the presence of petroleum hydrocarbons (fuel oil and asphalt). The Kurtz and GZA reports indicate the possibility of a buried foundation in the vicinity of the radio tower. Although no VOCs were detected in test pit grab groundwater samples

collected by GZA, methane was reported at levels ranging from 17 to 2,200 ppm. Section 5.0 provides more detail on the results of the abovementioned previous studies.

In accordance with the search of environmental databases, there are no records of spills or releases at the Site. There were several releases from properties in the surrounding area as described in Section 4.0.

3.5 Adjacent Properties

Property located along the west side of the Site includes residential units with a few small businesses. Across Front Street, near the northwest corner, is a gas service station which is in operation.

Property along the north edge of the Site includes commercial and seafood related type businesses. The southern boundary of the Site includes paved areas used for parking and a marine services such as boat repair and storage. Across Gifford Street are commercial and industrial buildings, used and unused, that support a variety of businesses.

3.5 Intended Site Use

The site is currently vacant without much formal use. The city is currently promoting marine-related industrial development. To date, there has been one purchase of a proposed 10-lot subdivision (Figure 3). The city recently voted to extend the boundaries of the waterfront overlay district to include the Site. Future plans include developing a formal access road and subdivision with water and sewer service in support of the subdivision.

The city has submitted an application to the Massachusetts Executive Office of Transportation and Construction for a grant for the roadway construction. Another application was submitted to the Massachusetts Department of Housing and Community Development for the design and construction of the water and sewer services.

3.6 Regulatory Status of the Site

The Site, or a portion thereof, is not currently listed as a waste site under the Massachusetts Contingency Plan (310 CMR 40.0000, MCP) pursuant to the Massachusetts Oil and Hazardous Material Release Prevention and Response Act (M.G.L. Chapter 21E).

4.0 REGULATORY AND GOVERNMENTAL AGENCY REVIEW

To facilitate review of the status of the Site in terms of federal and state regulatory requirements, the government environmental database search conducted by EDR was used. The search radius for the database review was based upon the approximated center point of the site. Facilities identified in this report are limited to the search distances used by EDR. The search of available government records is based on the requirements of ASTM Standards Practices for Environmental Site Assessments, E 1527-97. A copy of the EDR report is provided as Appendix B. This report includes siting maps that indicate the locations of surrounding properties listed in the searched databases.

M&E also conducted a search of available records and reports at state and local offices and agencies. In addition, the MADEP Site/Reportable Release database was reviewed to identify properties near the site having reported releases of oil or hazardous substances, pursuant to the MCP.

4.1 Federal Database Records

Summarized below are the results of EDR's federal environmental databases search that indicated the listing of the Site or properties within the search area. The Site was not listed in any federal databases searched:

- **Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS)** located within approximately ½ mile of the subject site - One CERCLIS site was identified within ½ mile of the subject property and is listed below.

Site Name	Address	Distance/Direction
Dartmouth Finishing	45 Cove Street	⅛-¼ mile South-southeast, upgradient

- **National Priority List (NPL)** for facilities within a 1 mile the subject property - No sites were identified in this database surrounding the property.

- **Resource Conservation and Recovery Information System (RCRIS)** Facilities Lists; including large and small quantity generators and treatment facilities located within

approximately ⅛ mile, and storage, transportation and disposal facilities located within approximately 1 mile of the boundary of the subject property - One site was listed within ¼ mile of the subject property as shown below.

Site Name	Address	Distance/Direction
Multicolor Screen Printing	62 Gifford Street	⅛-¼ mile South, upgradient

- **Toxic Chemical Release Inventory System (TRIS)** - No surrounding sites were listed as a TRIS site.

- **Toxic Substances Control Act (TSCA)** - No surrounding sites were listed as a TSCA site.

Additional details regarding the database search is provided in the EDR report in Appendix B. Other Federal databases were searched by EDR and are included in the Appendix. The subject property and surrounding properties were not located in any of the other databases searched.

4.2 State Database Records

Summarized below are the results of EDR's state environmental databases search that indicated the listing of the Site or properties within the search area. The subject property was not listed in any of the state databases searched:

- **Leaking Underground Storage Tank File (LUST)** incident report lists sites located within approximately one-half mile of the subject property - Two sites located within ½ mile of the subject property were listed under LUST as shown below.

Site Name	Address	Distance/Direction
Mutual Service Station	56 Potomska Street	⅛-¼ mile Northwest, upgradient
Southeast Transit Authority	75 Potomska Street	⅛-¼ mile West-Northwest, upgradient

- **Inactive Hazardous Waste Disposal Sites** (SHWS) located within 1 mile of the subject property - Four sites were located near the subject property and are shown below.

Site Name	Address	Distance/Direction
Standard Taxi	241 County Street	¼-½ mile WNW, upgradient
Commonwealth Electric	Pine Street	½-1 mile NNW, upgradient
Morse Cutting Tools	163 Pleasant Street	½-1 mile Northwest, upgradient
Furniture City	127 W. Rodney Fr. Blvd	½-1 mile South, upgradient

- **Underground Storage Tanks** (UST) registered within ¼ mile - One UST site was identified and is listed below. The subject property was not listed as containing any registered USTs. However, as noted in Section 3.0, review of historical Sanborn maps indicates that an underground fuel tank was or is still located on the property. There are no records of its removal, and none of the environmental assessment reports confirm its existence or non-existence.

Site Name	Address	Distance/Direction
Mutual Oil Company	56 Potomska Street	⅛-¼ mile Northwest, upgradient

The following state environmental databases were reviewed by M&E:

- **Site/Reportable Release Look-up** indicates sites listed with the MADEP having a reportable release of oil or hazardous materials. Three sites were located on this list that are adjacent to the subject property.

Site Name	Address	Distance/Direction
Mutual Service Station	56 Potomska Street	⅛-¼ mile Northwest, upgradient
Southeast Transit Authority	65 Potomska Street	⅛-¼ mile West-Northwest, upgradient

Southeast Transit Authority	75 Potomska Street	⅛-¼ mile West-Northwest, upgradient

No reports were available for the 75 Potomska Street property. Reports were reviewed and summarized for the 65 Potomska Street Site (Section 5.5). A Response Action Outcome (RAO) statement has been submitted for the Mutual Service Station site.

4.3 Review of Additional Records

According the EDR database search there is one coal gas site located within 1 mile of the subject property.

Site Name	Address	Distance/Direction
New Bedford Gas and Edison Light	230 S. Water Street	½-1 mile North-Northwest, upgradient

- City of New Bedford Records: Three environmental site assessments have been completed for the property or portions thereof. These reports were submitted to M&E for review and are discussed in detail in the Section 5.0. In addition, the city indicated that the former owners of the Site, Warren Five Cents Savings, conducted environmental assessments of the property. The city has not received copies of these reports.

- New Bedford Fire Prevention Department: In accordance with records reviewed, the Fire Prevention Department does not have any reports of hazardous substance releases at the Site. Releases of oil from leaking underground storage tanks were reported for the following adjacent properties: Mutual Oil Station at 56 Potomska Street and Southeast Transit Authority at 65 Potomska Street.

5.0 PREVIOUS/ON-GOING ENVIRONMENTAL INVESTIGATION/REMEDIATION ACTIVITIES AT OR NEAR THE SITE

In preparation of this memorandum, M&E reviewed available environmental reports. Each report was related to the site or a portion thereof. The following paragraphs summarize the information in the reports. In addition, M&E reviewed and summarized information for two MCP release sites adjacent to the subject property.

5.1 21E Assessment Report - Kurz Associates

A 21E Report was prepared by Kurz Associates in 1986 for its client, Lantz and Mulford. This limited environmental assessment included a review of files, site visit, and soil and groundwater sampling. The review of files indicated that there were no reported spills or incidents at the Site. The site visit revealed a vacant lot with overgrowth and recreational areas and areas of gravel piles and rubbish.

The subsurface investigation included 20 test pits located throughout the Site. Materials encountered were 4 to 5 feet of sand and gravel, including pieces of glass, brick, and cinders. A layer of sand and a layer of peat were noted just above the test pit completion layer (6 to 10 feet below ground surface), which also consisted of sand. Groundwater was encountered at depths of 4 to 5 feet below ground surface on average.

Soil and groundwater samples collected from the test pits were analyzed for VOCs. Three water samples were analyzed for VOCs and five soil samples analyzed for PCBs and oil and grease content. Two test pit samples indicated a presence of relatively low levels of PCBs (0.8 and 1.9 ppm) and two test pit samples indicated a presence of oil and grease (3,490 ppm and 7,070 ppm). Kurz suggested that one source of the petroleum hydrocarbons may be from the importing of fill materials, but no records were available to confirm this. No VOCs were detected in the groundwater.

5.2 Pre-Assessment of Playground - NUS

A pre-assessment of the playground area located in the southwest corner of the Site was conducted by NUS in 1989. The review of the area was limited to records search and site observations. No samples were collected or analyzed from the Site. The literature did indicate that part of the Site

was likely graded with dredge spoils from the Harbor. The pre-assessment did not identify the source of the fill materials, but concluded that there is a possibility that contaminated fill materials were used at the Site.

5.3 Environmental Site Assessments - GZA

GZA completed an Environmental Site Assessment of the Site in 1991 for Warren Five Cents Savings Bank. The report described the Site as a vacant field with a radio tower. The report also identified sewer lines at the Site which extend from Blackmer Street. The topography was noted as gentle sloping to the East.

GZA identified the former site use by the mills and discovered that coal gasification may have been conducted at the Site. During the 1993 assessment, piles of construction debris, concrete and asphalt, were observed by GZA to be randomly scattered across the Site. In addition, municipal rubbish dumping along roadways was observed. Empty and unlabeled 55-gallon drums were also observed at the northwest corner of the property.

Soil and groundwater samples collected from test pits in 1991 and 1993 were analyzed for VOCs. Additionally the soil samples were analyzed for PCBs and petroleum hydrocarbons. Two of the soil samples were collected in close to the locations where Kurtz found PCBs. The sampling efforts by GZA did not report PCBs in soil, but did confirmed the presence of petroleum hydrocarbons (fuel oil and asphalt). Although no VOCs were detected in test pit grab groundwater samples collected by GZA, methane was reported at levels ranging from 17 to 2,200 ppm.

5.4 Mutual Service Station at 56 Potomska Street, RTN 4-0485

The Mutual Service Station has operated as a fuel service station since 1968. Several underground storage tanks (USTs) had been placed and replaced at the site, including gasoline, unleaded gasoline, diesel, and kerosine tanks. In 1989, the MADEP issued a Notice of Responsibility to Mutual for the release of oil and hazardous materials at the site. Zecco reported the presence of separate-phase product in groundwater monitoring wells on the property in 1990. Subsequently, tanks were replaced in 1992 and contaminated soil was removed from the site.

A groundwater treatment and soil vapor extraction remediation system was installed in 1993 and was operated into 1996. According to Handex in a Response Action Outcome (RAO) dated June 1996, data from the site indicate a trend of lower contaminant concentrations. Oil and hazardous

material concentrations in the groundwater were below MCP Method 1 GW-2. The RAO indicated that the site conditions met a level of No Significant Risk in accordance with the MCP.

The likely flow of groundwater from this property is in a southwest direction, towards the Standard Times Field and the Acushnet River.

5.5 Southeast Transit Authority at 65 Potomska Street, RTN 4-0714

This site is located within ⅛ of a mile northwest of the subject property's northwest property corner. Soil contamination was observed at the Southeast Transit Authority (SRTA) site in 1988 during the removal of USTs. The USTs contained gasoline, diesel fuel, and motor oil. Sampling and analyses indicated the presence of petroleum hydrocarbons in soil and groundwater from the former tank locations. An undocumented amount of soil was removed during the tank removal, and contamination was also evident in soils adjacent to a building structure, and were left in place. A *Limited Phase I Environmental Site Assessment Report* was submitted in November 1991 by Briggs Associates. An *LSP Evaluation Opinion*, from Atlantic Environmental, Inc. in 1996, indicated that a release of oil had occurred at the site.

A notice of Responsibility was issued to SRTA by the MADEP in March of 1998 indicating the need to address the presence of separate phase product in the groundwater. Additional contaminated soil was removed from the site in 1998 (approximately 1,000 tons).

The Southeast Transit Authority was also listed in the MADEP release database for a 72-hour reportable release (RTN 4-013706). No reports about the 72-hour release were available for review.

6.0 SUMMARY OF FINDINGS

Upon review of collected information, key points regarding the site history and current site conditions that are relevant to performing additional work in support of the BTSA at the Standard Times Field site can be summarized as follows:

- The Site is currently owned by the city. The Site is currently vacant with some recreational use. Future plans for the Site include the development of commercial property in support of the area's fishing industry.

- Historical information indicates that textile mills operated at the Site and were demolished in the 1930s. Information shows former locations of a gas holder, gas machine, buried fuel tank, and a transformer in the vicinity of the mills.

- Previous environmental studies have indicated relatively low levels of petroleum hydrocarbons and PCBs in subsurface soil and methane in groundwater. These reports did not specifically address the presence of, or contamination due to, the former site structures such as the buried oil tank.

- Several sites near the property were identified on federal and state environmental databases. In particular, two sites had releases of petroleum products that affect the local subsurface soil and groundwater. Both sites reside within ⅛ of a mile from the northwest corner of the Site.

- Fill material, demolition debris, and dredge spoils have been reportedly placed in localized areas of the Site.

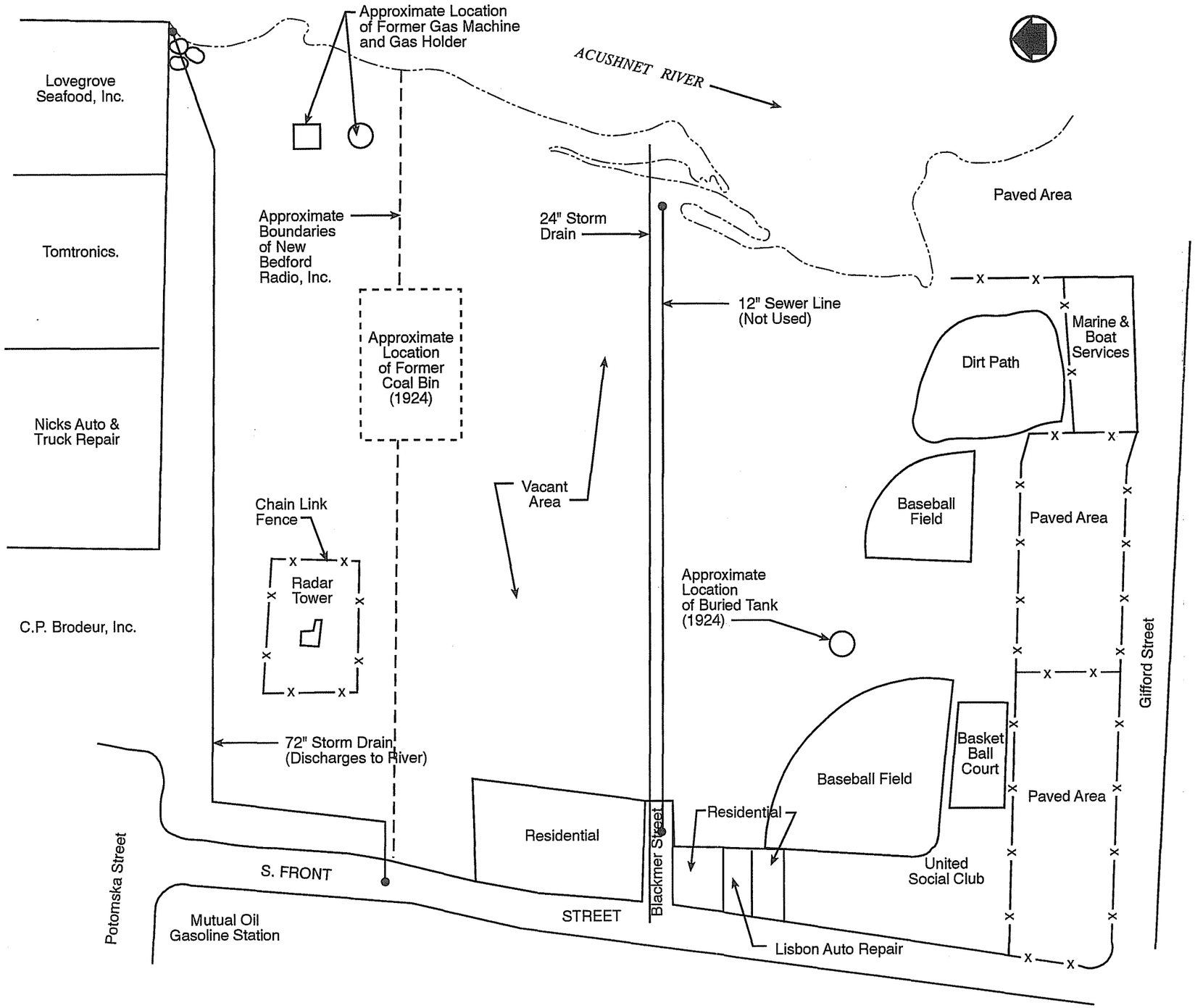
FIGURES

SOURCE: USGS TOPOGRAPHIC MAP
NEW BEDFORD SOUTH, MA., 1977

2000 0 2000
SCALE IN FEET

FIGURE 1.
STANDARD TIMES FIELD
FRONT ST. NEW BEDFORD, MA

01/6402



NOTE:

The base map was developed from an aerial photograph dated 1985 provided by the New Bedford Public Works Department and the New Bedford Tax Assessors maps plat 25A dated November 1944 and Plat 31 dated January 1969.
Original scale 1" = 100'

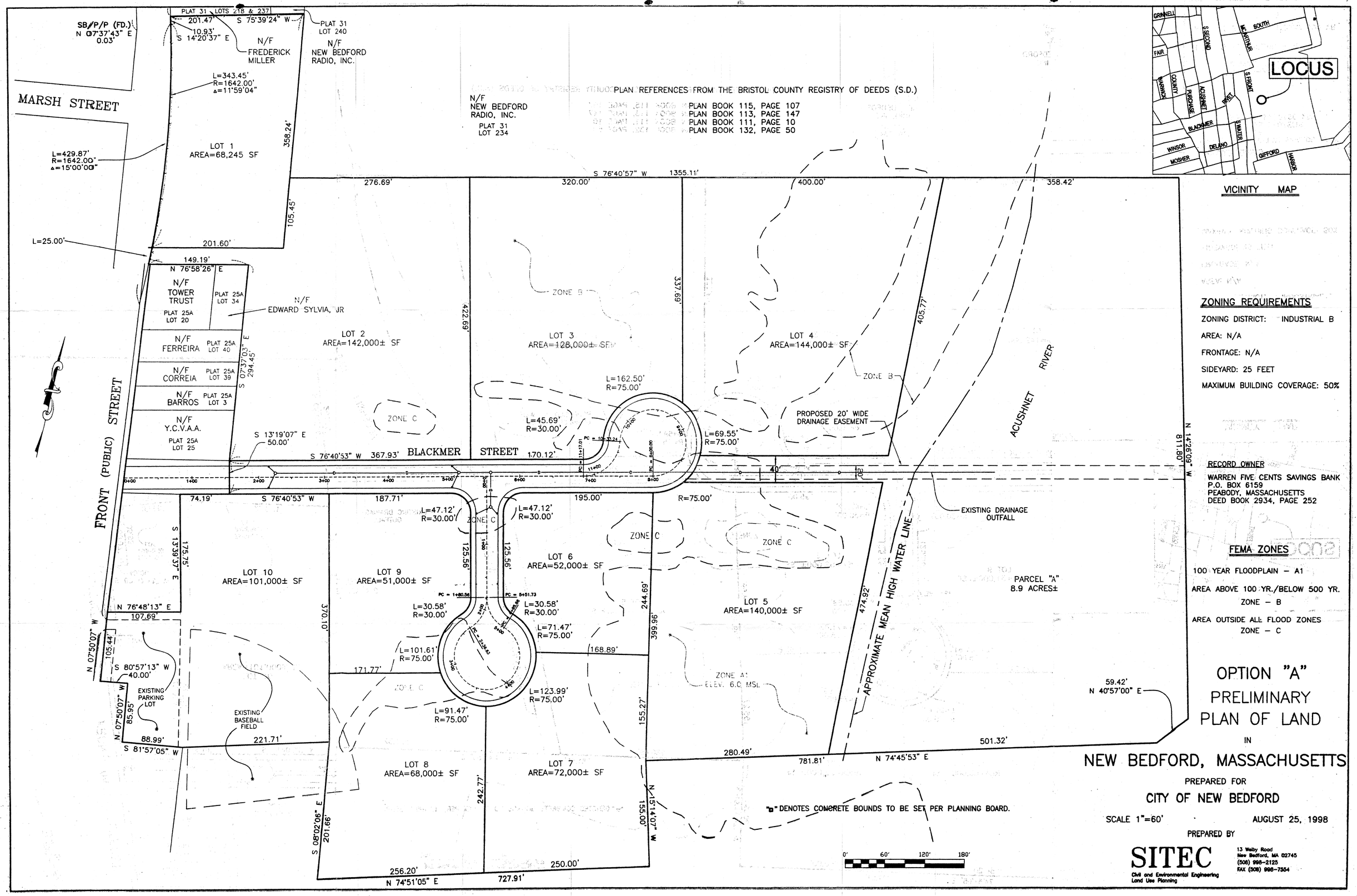
Site Features are Located by Approximation.

160 0 160

SCALE IN FEET

FIGURE 2.
STANDARD TIMES FIELD FRONT ST.
NEW BEDFORD, MA
SITE PLAN

02/6402



ZONING REQUIREMENTS

ZONING DISTRICT: INDUSTRIAL B

AREA: N/A

FRONTAGE: N/A

SIDEYARD: 25 FEET

MAXIMUM BUILDING COVERAGE: 50%

RECORD OWNER

WARREN FIVE CENTS SAVINGS BANK
P.O. BOX 6159
PEABODY, MASSACHUSETTS
DEED BOOK 2934, PAGE 252

FEMA ZONES

100 YEAR FLOODPLAIN – A1

AREA ABOVE 100 YR./BELOW 500 YR.
ZONE – B

AREA OUTSIDE ALL FLOOD ZONES
ZONE – C

OPTION "A" PRELIMINARY PLAN OF LAND

IN

NEW BEDFORD, MASSACHUSETTS

PREPARED FOR

CITY OF NEW BEDFORD

SCALE 1"=60' AUGUST 25, 1998

PREPARED BY

SITEC
Civil and Environmental Engineering
Land Use Planning
13 Welby Road
New Bedford, MA 02745
(508) 996-2125
FAX (508) 996-7554

Figure 3

APPENDIX A

EDR DATABASE SEARCH

The EDR-Radius Map
with GeoCheck®

Standard Times Field
Front Street/Blackmer Street
New Bedford, MA 02740

Inquiry Number: 359293.1s

April 16, 1999

Environmental Data Resources, Inc.
an edr company

The Source For Environmental Risk Management Data

3530 Post Road
Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

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Detail Map	6
Map Summary - All Sites	7
Map Summary - Sites with higher or the same elevation as the Target Property	8
Map Findings	9
Orphan Summary	30

APPENDICES

GeoCheck Version 2.1	A1
Government Records Searched / Data Currency Tracking Addendum	A8

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 meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-97. Search distances are per ASTM standard or custom distances requested by the user.

The address of the subject property for which the search was intended is:

FRONT STREET/BLACKMER STREET
NEW BEDFORD, MA 02740

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the subject property or within the ASTM E 1527-97 search radius around the subject property for the following Databases:

NPL:..... National Priority List
Delisted NPL:..... NPL Deletions
RCRIS-TSD:..... Resource Conservation and Recovery Information System
CERC-NFRAP:..... Comprehensive Environmental Response, Compensation, and Liability Information System
CORRACTS:..... Corrective Action Report
SWF/LF:..... Solid Waste Facility Database/Transfer Stations
AST:..... Summary Listing of All the Tanks Registered in the State of Massachusetts
RAATS:..... RCRA Administrative Action Tracking System
RCRIS-LQG:..... Resource Conservation and Recovery Information System
HMIRS:..... Hazardous Materials Information Reporting System
PADS:..... PCB Activity Database System
ERNS:..... Emergency Response Notification System
FINDS:..... Facility Index System/Facility Identification Initiative Program Summary Report
TRIS:..... Toxic Chemical Release Inventory System
NPL Lien:..... NPL Liens
TSCA:..... Toxic Substances Control Act
MLTS:..... Material Licensing Tracking System
Release:..... Release Tracking Report
MA Spills:..... Historical Spill List
ROD:..... ROD
CONSENT:..... Superfund (CERCLA) Consent Decrees

Unmapped (orphan) sites are not considered in the foregoing analysis.

Search Results:

Search results for the subject property and the search radius, are listed below:

Subject Property:

The subject property was not listed in any of the databases searched by EDR.

EXECUTIVE SUMMARY

Surrounding Properties:

Elevations have been determined from the USGS 1 degree 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. EDR's definition of a site with an elevation equal to the subject property includes a tolerance of -10 feet. Sites with an elevation equal to or higher than the subject property have been differentiated below from sites with an elevation lower than the subject property (by more than 10 feet). 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.

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Protection's List of Confirmed Disposal Sites & Locations to be Investigated.

A review of the SHWS list, as provided by EDR, has revealed that there are 4 SHWS sites within approximately 1 mile of the subject property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
STANDARD TAXI	241 COUNTY ST.	1/4 - 1/2 WNW	6	18
~~***COMMONWEALTH ELECTRIC CO.***~~	~~***PINE ST.***~~	~~***1/2 - 1 NNW***~~	~~***7***~~	~~***19***~~
MORSE CUTTING TOOLS	***163 PLEASANT STREET***	***1/2 - 1 NW***	***8***	***24***
FURNITURE CITY	127 W. RODNEY FRENCH BL	1/2 - 1 S	9	29

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 11/10/1998 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the subject property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
DARTMOUTH FINISHING	***45 COVE STREET***	***1/4 - 1/2 SSE***	***5***	***18***

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Protection's List of Confirmed Disposal Sites & Locations to be Investigated.

A review of the LUST list, as provided by EDR, and dated 01/27/1999 has revealed that there are 2 LUST sites within approximately 0.5 miles of the subject property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
MUTUAL SERVICE STATION	56 POTOMSKA ST	1/8 - 1/4 NW	A3	17
SOUTHEAST TRANSIT AUTHORITY	75 POTOMSKA ST	1/8 - 1/4 WNW	4	17

EXECUTIVE SUMMARY

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 12/01/1998 has revealed that there is 1 UST site within approximately 0.25 miles of the subject property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
MUTUAL OIL CO., INC.	56 POTOMSKA ST	1/8 - 1/4 NW	A2	9

RCRIS: The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-SQG list, as provided by EDR, and dated 01/04/1999 has revealed that there is 1 RCRIS-SQG site within approximately 0.25 miles of the subject property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
MULTICOLOR SCREEN PRINTING INC	*62 GIFFORD ST*	*1/8 - 1/4 S*	*1*	*9*

(Coal Gas) Former Manufactured gas (Coal Gas) Sites:

The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative

A review of the Coal Gas list, as provided by EDR, has revealed that there is 1 Coal Gas site within approximately 1 mile of the subject property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
NEW BEDFORD GAS & EDISON LIGHT	230 SOUTH WATER ST.	1/2 - 1 NNW	10	29

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
MARSH ISLAND	CERC-NFRAP,SHWS
RIVERSIDE/LOTS 33-36; 53-55	SHWS
RAILROAD DEPOT	CERCLIS,SHWS
FRANCIS PLAYGROUND	CERC-NFRAP,SHWS
SEWAGE PUMP STATION	SHWS
SUBSTATIONS/INTERCEPTORS	SHWS
FISH ISLAND	SHWS
TELEDYNE/BRITTANY DYE	SHWS
ISOTRONICS	SHWS
BRISTOL MILL LOT	SHWS
SULLIVANS LEDGE LANDFILL	SWF/LF
MAINLINE TIRE CO.	SWF/LF
NEW BEDFORD LANDFILL	SWF/LF
FRONT ST. PUMP STATION	UST
EXXON CO U S A	RCRIS-SQG,FINDS
US COAST GUARD CUTTER	RCRIS-SQG,FINDS
US COAST GUARD BIBB	FINDS,RCRIS-LQG

TOPOGRAPHIC MAP - 359293.1s - Metcalf & Eddy, Inc.

0 1/2 1 2 Miles

- Major Roads
- Contour Lines
- Waterways
- Earthquake epicenter, Richter 5 or greater
- Closest Federal Well in quadrant
- Closest State Well in 1 mile radius
- Closest Public Water Supply Well
- EPA Designated Sole Source Aquifers
- Potentially Productive Aquifers
- Not Potentially Productive Aquifers
- DEP Approved Zone IIs
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location

TARGET PROPERTY:	Standard Times Field	CUSTOMER:	Metcalf & Eddy, Inc.
ADDRESS:	Front Street/Blackmer Street	CONTACT:	Neil Thurber
CITY/STATE/ZIP:	New Bedford MA 02740	INQUIRY #:	359293.1s
LAT/LONG:	41.6211 / 70.9177	DATE:	April 16, 1999 9:00 am

GEOCHECK VERSION 2.1
SUMMARY

TARGET PROPERTY COORDINATES

Latitude (North):	41.621101 - 41˚ 37' 16.0"
Longitude (West):	70.917702 - 70˚ 55' 3.7"
Universal Transverse Mercator:	Zone 19
UTM X (Meters):	340234.0
UTM Y (Meters):	4609272.0

USGS TOPOGRAPHIC MAP ASSOCIATED WITH THIS SITE

Target Property: 2441070-E8 NEW BEDFORD SOUTH, MA

GEOLOGIC AGE IDENTIFICATION†

Geologic Code:	Zg
Era:	Precambrian
System:	Precambrian
Series:	Z ganitic rocks

ROCK STRATIGRAPHIC UNIT†

Category: Plutonic and Intrusive Rocks

GROUNDWATER FLOW 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, including well data collected on nearby properties, regional groundwater flow information (from deep aquifers), or surface topography.‡

AQUIFLOW™** Search Radius: 2.000 Miles

MAP ID	DISTANCE FROM TP	DIRECTION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
1g	1 - 2 Miles	NNW	NE
2g	1 - 2 Miles	NNE	W
3g	1 - 2 Miles	NNE	Not Reported
4g	1 - 2 Miles	WNW	S
5g	1 - 2 Miles	WNW	Not Reported
7g	1 - 2 Miles	NE	VARIES
8g	1/2 - 1 Mile	WNW	NOT REPORTED
9g	1/8 - 1/4 Mile	NW	VARIES
10g	1/2 - 1 Mile	WSW	VARIES
11g	1/2 - 1 Mile	WSW	Not Reported
12g	1 - 2 Miles	SW	Not Reported
13g	1 - 2 Miles	SW	SW

For additional site information, refer to GeoCheck Appendix.

General Topographic Gradient at Target Property: General ENE
General Hydrogeologic Gradient at Target Property: No hydrogeologic data available.

FEDERAL DATABASE WELL INFORMATION

WELL QUADRANT	DISTANCE FROM TP	LITHOLOGY	DEPTH TO WATER TABLE
Northern	1/2 - 1 Mile	Not Reported	10 ft.

† 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).
‡ U.S. EPA Ground Water Handbook, Vol I: Ground Water and Contamination, Office of Research and development EPA/625/6-90/016a,Chapter 4, page 78, September 1990.
** EDR AQUIFLOW™ information System of hydrogeologically determined groundwater flow directions at specific locations. See the date pages at the end of this report for a complete description.

GEOCHECK VERSION 2.1
SUMMARY

FEDERAL DATABASE WELL INFORMATION

WELL QUADRANT	DISTANCE FROM TP	LITHOLOGY	DEPTH TO WATER TABLE
Eastern	1 - 2 Miles	Not Reported	1 ft.
Southern	1/8 - 1/4 Mile	Not Reported	Not Reported
Western	1/2 - 1 Mile	Not Reported	Not Reported

STATE DATABASE WELL INFORMATION

MASSACHUSETTS PUBLIC WATER SUPPLIES WITHIN 1 MILE OF THE TARGET PROPERTY

DIRECTION FROM TP	DISTANCE FROM TP
NO WELLS FOUND	

ACEC ID	AREA NAME
Not Reported	

PUBLIC WATER SUPPLY SYSTEM INFORMATION

Searched by Nearest PWS.
NOTE: PWS System location is not always the same as well location.

PWS Name: SHAWS COVE IMPROVEMENT ASSN.
SHAWS COVE
FAIRHAVEN, MA 02719
Location Relative to TP: 1 - 2 Miles North
PWS currently has or has had major violation(s): No

AREA RADON INFORMATION

EPA Radon Zone for BRISTOL County: 2

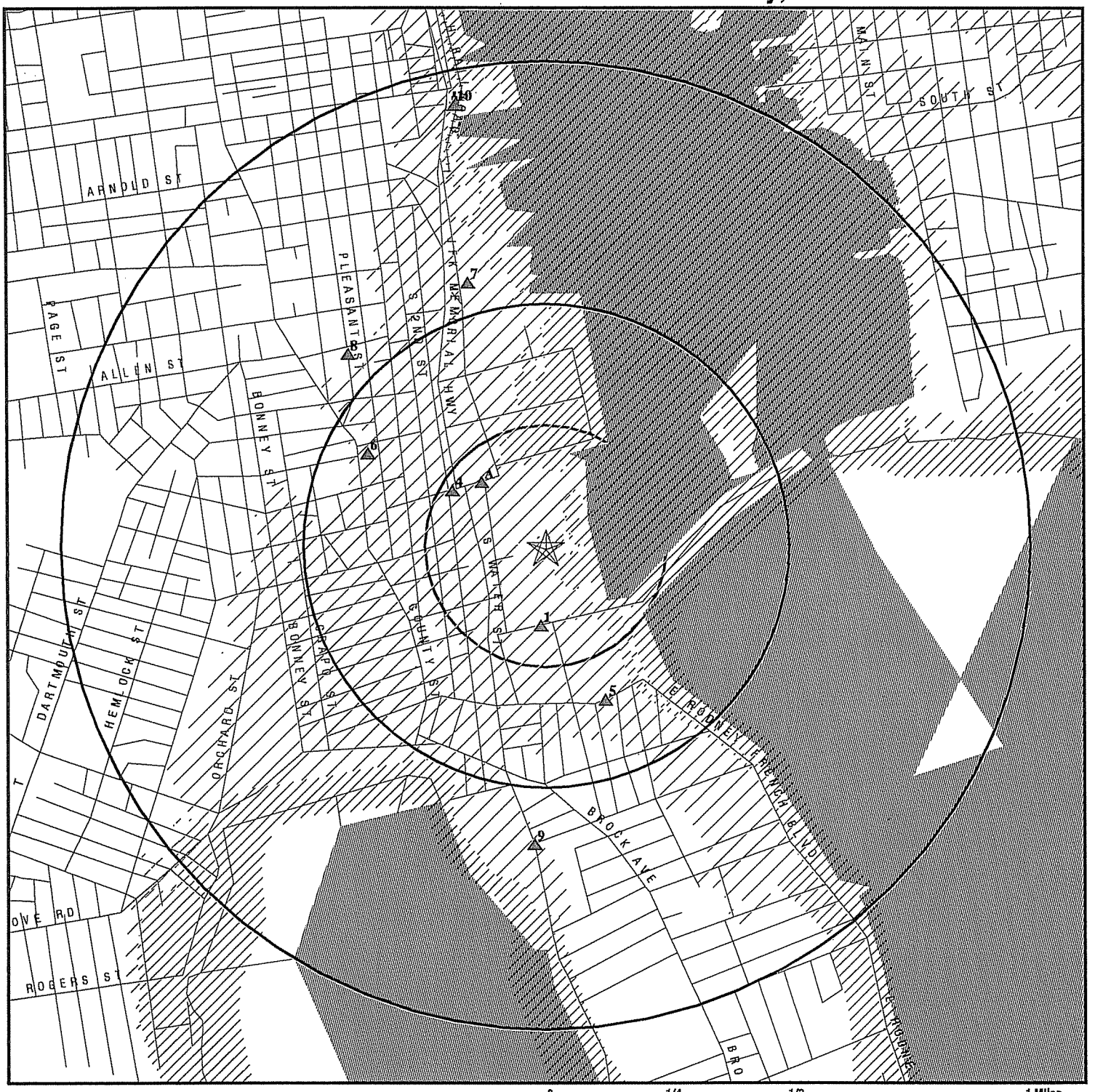
Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Zip Code: 02740

Number of sites tested: 7

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	0.500 pCi/L	100%	0%	0%
Basement	2.743 pCi/L	71%	29%	0%

OVERVIEW MAP - 359293.1s - Metcalf & Eddy, Inc.

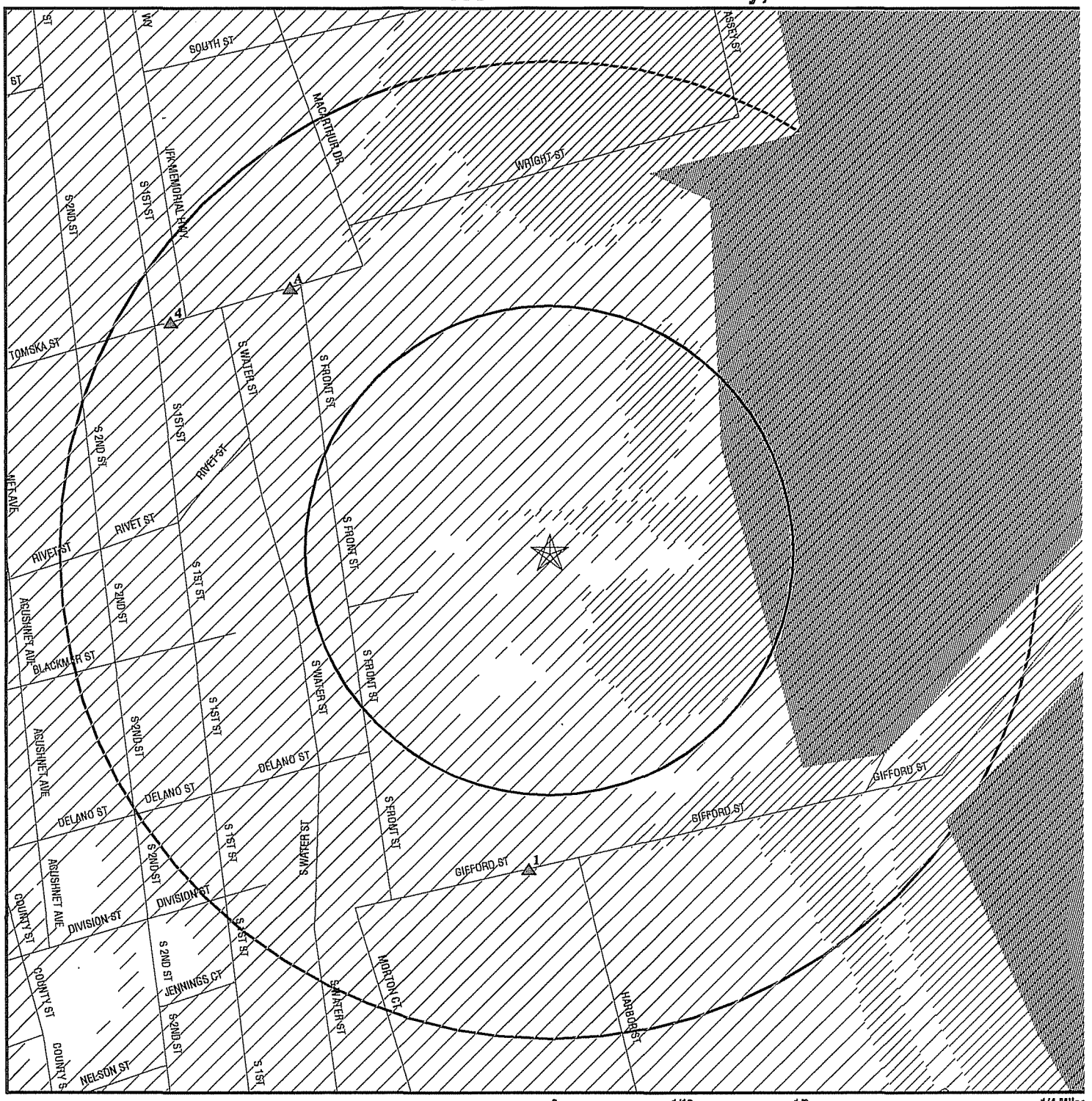


0 1/4 1/2 1 Miles

- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- Coal Gasification Sites (if requested)
- National Priority List Sites
- Landfill Sites
- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- Areas of Critical Environmental Concern

TARGET PROPERTY:	Standard Times Field	CUSTOMER:	Metcalf & Eddy, Inc.
ADDRESS:	Front Street/Blackmer Street	CONTACT:	Neil Thurber
CITY/STATE/ZIP:	New Bedford MA 02740	INQUIRY #:	359293.1s
LAT/LONG:	41.6211 / 70.9177	DATE:	April 16, 1999 8:57 am

DETAIL MAP - 359293.1s - Metcalf & Eddy, Inc.



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
- Coal Gasification Sites (if requested)
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- Areas of Critical Environmental Concern

TARGET PROPERTY:	Standard Times Field	CUSTOMER:	Metcalf & Eddy, Inc.
ADDRESS:	Front Street/Blackmer Street	CONTACT:	Neil Thurber
CITY/STATE/ZIP:	New Bedford MA 02740	INQUIRY #:	359293.1s
LAT/LONG:	41.6211 / 70.9177	DATE:	April 16, 1999 8:59 am

MAP FINDINGS SUMMARY SHOWING ALL SITES

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NPL		1.000	0	0	0	0	NR	0
Delisted NPL		TP	NR	NR	NR	NR	NR	0
RCRIS-TSD		0.500	0	0	0	NR	NR	0
State Haz. Waste		1.000	0	0	1	3	NR	4
CERCLIS		0.500	0	0	1	NR	NR	1
CERC-NFRAP		TP	NR	NR	NR	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
LUST		0.500	0	2	0	NR	NR	2
UST		0.250	0	1	NR	NR	NR	1
AST		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
RCRIS Sm. Quan. Gen.		0.250	0	1	NR	NR	NR	1
RCRIS Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
ERNS		TP	NR	NR	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
NPL Liens		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
Release		TP	NR	NR	NR	NR	NR	0
MA Spills		TP	NR	NR	NR	NR	NR	0
ROD		1.000	0	0	0	0	NR	0
CONSENT		1.000	0	0	0	0	NR	0
Coal Gas		1.000	0	0	0	1	NR	1

TP = Target Property

NR = Not Requested at this Search Distance

* Sites may be listed in more than one database

MAP FINDINGS SUMMARY SHOWING ONLY SITES HIGHER THAN OR THE SAME ELEVATION AS TP

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NPL		1.000	0	0	0	0	NR	0
Delisted NPL		TP	NR	NR	NR	NR	NR	0
RCRIS-TSD		0.500	0	0	0	NR	NR	0
State Haz. Waste		1.000	0	0	1	3	NR	4
CERCLIS		0.500	0	0	1	NR	NR	1
CERC-NFRAP		TP	NR	NR	NR	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
LUST		0.500	0	2	0	NR	NR	2
UST		0.250	0	1	NR	NR	NR	1
AST		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
RCRIS Sm. Quan. Gen.		0.250	0	1	NR	NR	NR	1
RCRIS Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
ERNS		TP	NR	NR	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
NPL Liens		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
Release		TP	NR	NR	NR	NR	NR	0
MA Spills		TP	NR	NR	NR	NR	NR	0
ROD		1.000	0	0	0	0	NR	0
CONSENT		1.000	0	0	0	0	NR	0
Coal Gas		1.000	0	0	0	1	NR	1

TP = Target Property

NR = Not Requested at this Search Distance

* Sites may be listed in more than one database

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
1 South 1/8-1/4 861 Higher	**MULTICOLOR SCREEN PRINTING INC 62 GIFFORD ST NEW BEDFORD, MA 02744**	**RCRIS-SQG FINDS**	**1001214291 MAR000008458**

RCRIS:

Owner: MULTICOLOR SCREEN PRINTING INC
(508) 996-0419

Contact: ROBERT L LIPMAN
(508) 996-0419

Record Date: 09/25/1997

Classification: Small Quantity Generator

Used Oil Recyc: No

Violation Status: No violations found

A2 NW 1/8-1/4 998 Higher	**MUTUAL OIL CO., INC. 56 POTOMSKA ST NEW BEDFORD, MA 02740**	**UST**	**U002007821 N/A**

UST:

Facility ID:	3484	Tank ID:	1
Tank Status:	Removed	Tank Use:	Not reported
Install Date:	5/1/71 0:00:00	Last Used:	3/31/91 0:00:00
Capacity:	4000	Leak:	0
Facility Phone:	Not reported		
Owner:	MUTUAL OIL CO., INC.		
Owner Address:	P.O. BOX 250 BROCKTON, MA 02403 PLYMOUTH County		
Owner Phone:	Not reported		
Serial Num:	Not reported		
Aboveground:	No		
Contents:	Gasoline		
Hazardous:	No		
CERCLA Num:	Not reported		
Case Num:	Not reported		
Lined Tank:	No		
Excavation Liner:	No		
Pipe Repaired:	No		
Pipe Repair Date:	Not reported		
Gravity Feed:	No		
Manuf Certified:	No	Implement Certif:	No
Engineer Inspect:	No	Implement Insp:	No
Install Checklists:	No	Other Method:	Not reported
Tank Material:	Bare Steel		
Tank Contents:	Not reported		
Pipe Material:	Bare Steel		
Pipe Contents:	Not reported		
Tank Leak Detect:	Not reported		
Pipe Leak Detect:	Not reported		
Tank Notes:	Not reported		
Pipe Notes:	Not reported		
Tight Test Date:	Not reported		
Inventory Control:	Not reported		

MUTUAL OIL CO., INC. (Continued) **U002007821**

Cath Prot Test: Not reported
Date Removed: Not reported
Piping Status: Not reported
527 CMR 9.00: No
DEP Notified: No
DEP Tracking ID: Not reported
Assessing Agncy: Not reported

Facility ID: 3484
Tank Status: Removed
Install Date: 5/1/71 0:00:00
Capacity: 4000
Facility Phone: Not reported
Owner: MUTUAL OIL CO., INC.
Owner Address: P.O. BOX 250
BROCKTON, MA 02403
PLYMOUTH County
Owner Phone: Not reported
Serial Num: Not reported
Aboveground: No
Contents: Gasoline
Hazardous: No
CERCLA Num: Not reported
Case Num: Not reported
Lined Tank: No
Excavation Liner: No
Pipe Repaired: No
Pipe Repair Date: Not reported
Gravity Feed: No
Manuf Certified: No
Engineer Inspect: No
Install Checklists: No
Tank Material: Bare Steel
Tank Contents: Not reported
Pipe Material: Bare Steel
Pipe Contents: Not reported
Tank Leak Detect: Not reported
Pipe Leak Detect: Not reported
Tank Notes: Not reported
Pipe Notes: Not reported
Tight Test Date: Not reported
Inventory Control: Not reported
Cath Prot Test: Not reported
Date Removed: Not reported
Piping Status: Not reported
527 CMR 9.00: No
DEP Notified: No
DEP Tracking ID: Not reported
Assessing Agncy: Not reported

Tank ID: 2
Tank Use: Not reported
Last Used: 3/31/91 0:00:00
Leak: 0
Implement Certif: No
Implement Insp: No
Other Method: Not reported

Facility ID: 3484
Tank Status: Removed
Install Date: 5/1/71 0:00:00
Capacity: 4000
Facility Phone: Not reported
Owner: MUTUAL OIL CO., INC.
Owner Address: P.O. BOX 250

Tank ID: 3
Tank Use: Not reported
Last Used: 3/31/91 0:00:00
Leak: 0

MUTUAL OIL CO., INC. (Continued) **U002007821**

BROCKTON, MA 02403
PLYMOUTH County
Owner Phone: Not reported
Serial Num: Not reported
Aboveground: No
Contents: Gasoline
Hazardous: No
CERCLA Num: Not reported
Case Num: Not reported
Lined Tank: No
Excavation Liner: No
Pipe Repaired: No
Pipe Repair Date: Not reported
Gravity Feed: No
Manuf Certified: No
Implement Certif: No
Engineer Inspect: No
Implement Insp: No
Install Checklists: No
Other Method: Not reported
Tank Material: Bare Steel
Tank Contents: Not reported
Pipe Material: Bare Steel
Pipe Contents: Not reported
Tank Leak Detect: Not reported
Pipe Leak Detect: Not reported
Tank Notes: Not reported
Pipe Notes: Not reported
Tight Test Date: Not reported
Inventory Control: Not reported
Cath Prot Test: Not reported
Date Removed: Not reported
Piping Status: Not reported
527 CMR 9.00: No
DEP Notified: No
DEP Tracking ID: Not reported
Assessing Agncy: Not reported

Facility ID: 3484
Tank ID: 4
Tank Status: Removed
Tank Use: Not reported
Install Date: 5/1/71 0:00:00
Last Used: 3/31/91 0:00:00
Capacity: 4000
Leak: 0
Facility Phone: Not reported
Owner: MUTUAL OIL CO., INC.
Owner Address: P.O. BOX 250
BROCKTON, MA 02403
PLYMOUTH County
Owner Phone: Not reported
Serial Num: Not reported
Aboveground: No
Contents: Gasoline
Hazardous: No
CERCLA Num: Not reported
Case Num: Not reported
Lined Tank: Yes
Excavation Liner: No
Pipe Repaired: No
Pipe Repair Date: Not reported
Gravity Feed: No
Manuf Certified: No
Implement Certif: No

MUTUAL OIL CO., INC. (Continued) **U002007821**

Engineer Inspect: No
Install Checklists: No
Tank Material: Bare Steel
Tank Contents: Not reported
Pipe Material: Bare Steel
Pipe Contents: Not reported
Tank Leak Detect: Not reported
Pipe Leak Detect: Not reported
Tank Notes: Not reported
Pipe Notes: Not reported
Tight Test Date: Not reported
Inventory Control: Not reported
Cath Prot Test: Not reported
Date Removed: Not reported
Piping Status: Not reported
527 CMR 9.00: No
DEP Notified: No
DEP Tracking ID: Not reported
Assessing Agncy: Not reported

Implement Insp: No
Other Method: Not reported

Facility ID: 3484
Tank Status: Removed
Install Date: 5/1/71 0:00:00
Capacity: 4000
Facility Phone: Not reported
Owner: MUTUAL OIL CO., INC.
Owner Address: P.O. BOX 250
BROCKTON, MA 02403
PLYMOUTH County
Owner Phone: Not reported
Serial Num: Not reported
Aboveground: No
Contents: Diesel
Hazardous: No
CERCLA Num: Not reported
Case Num: Not reported
Lined Tank: No
Excavation Liner: No
Pipe Repaired: No
Pipe Repair Date: Not reported
Gravity Feed: No
Manuf Certified: No
Engineer Inspect: No
Install Checklists: No
Tank Material: Bare Steel
Tank Contents: Not reported
Pipe Material: Bare Steel
Pipe Contents: Not reported
Tank Leak Detect: Not reported
Pipe Leak Detect: Not reported
Tank Notes: Not reported
Pipe Notes: Not reported
Tight Test Date: Not reported
Inventory Control: Not reported
Cath Prot Test: Not reported
Date Removed: Not reported
Piping Status: Not reported

Tank ID: 5
Tank Use: Not reported
Last Used: 3/31/91 0:00:00
Leak: 0

Implement Certif: No
Implement Insp: No
Other Method: Not reported

MUTUAL OIL CO., INC. (Continued) **U002007821**

527 CMR 9.00: No
DEP Notified: No
DEP Tracking ID: Not reported
Assessing Agncy: Not reported

Facility ID: 3484
Tank Status: Removed
Install Date: 4/30/85 0:00:00
Capacity: 4000
Facility Phone: Not reported
Owner: MUTUAL OIL CO., INC.
Owner Address: P.O. BOX 250
BROCKTON, MA 02403
PLYMOUTH County
Owner Phone: Not reported
Serial Num: Not reported
Aboveground: No
Contents: Kerosene
Hazardous: No
CERCLA Num: Not reported
Case Num: Not reported
Lined Tank: No
Excavation Liner: No
Pipe Repaired: No
Pipe Repair Date: Not reported
Gravity Feed: No
Manuf Certified: No
Engineer Inspect: No
Install Checklists: No
Tank Material: Bare Steel
Tank Contents: Not reported
Pipe Material: Bare Steel
Pipe Contents: Not reported
Tank Leak Detect: Not reported
Pipe Leak Detect: Not reported
Tank Notes: Not reported
Pipe Notes: Not reported
Tight Test Date: Not reported
Inventory Control: Not reported
Cath Prot Test: Not reported
Date Removed: Not reported
Piping Status: Not reported
527 CMR 9.00: No
DEP Notified: No
DEP Tracking ID: Not reported
Assessing Agncy: Not reported

Tank ID: 6
Tank Use: Not reported
Last Used: 3/31/91 0:00:00
Leak: 0
Implement Certif: No
Implement Insp: No
Other Method: Not reported

Facility ID: 3484
Tank Status: Removed
Install Date: 4/30/85 0:00:00
Capacity: 8000
Facility Phone: Not reported
Owner: MUTUAL OIL CO., INC.
Owner Address: P.O. BOX 250
BROCKTON, MA 02403
PLYMOUTH County
Owner Phone: Not reported

Tank ID: 7
Tank Use: Not reported
Last Used: 3/31/91 0:00:00
Leak: 0

MUTUAL OIL CO., INC. (Continued) **U002007821**

Serial Num: Not reported
Aboveground: No
Contents: Gasoline
Hazardous: No
CERCLA Num: Not reported
Case Num: Not reported
Lined Tank: No
Excavation Liner: No
Pipe Repaired: No
Pipe Repair Date: Not reported
Gravity Feed: No
Manuf Certified: No
Engineer Inspect: No
Install Checklists: No
Implement Certif: No
Implement Insp: No
Other Method: Not reported
Tank Material: Bare Steel
Tank Contents: Not reported
Pipe Material: Bare Steel
Pipe Contents: Not reported
Tank Leak Detect: Not reported
Pipe Leak Detect: Not reported
Tank Notes: Not reported
Pipe Notes: Not reported
Tight Test Date: Not reported
Inventory Control: Not reported
Cath Prot Test: Not reported
Date Removed: Not reported
Piping Status: Not reported
527 CMR 9.00: No
DEP Notified: No
DEP Tracking ID: Not reported
Assessing Agncy: Not reported

Facility ID: 3484
Tank ID: 8
Tank Status: In Use
Tank Use: MV
Install Date: 4/24/92 0:00:00
Last Used: Not reported
Capacity: 12000
Leak: 0
Facility Phone: Not reported
Owner: MUTUAL OIL CO., INC.
Owner Address: P.O. BOX 250
BROCKTON, MA 02403
PLYMOUTH County
Owner Phone: Not reported
Serial Num: Not reported
Aboveground: No
Contents: Gasoline
Hazardous: No
CERCLA Num: Not reported
Case Num: Not reported
Lined Tank: No
Excavation Liner: No
Pipe Repaired: No
Pipe Repair Date: Not reported
Gravity Feed: No
Manuf Certified: No
Engineer Inspect: No
Install Checklists: No
Implement Certif: No
Implement Insp: No
Other Method: Mfg i
Tank Material: Fiberglass Reinforced Plastic

MUTUAL OIL CO., INC. (Continued) **U002007821**

Tank Contents: Double Walled
Pipe Material: Fiberglass Reinforced Plastic
Pipe Contents: Double Walled
Tank Leak Detect: Interstitial Monitoring
Pipe Leak Detect: Interstitial Space Monitor
Tank Notes: spill containment device, overfill prevention device
Pipe Notes: automatic flow restrictor
Tight Test Date: Not reported
Inventory Control: Manual Gauging
Cath Prot Test: Not reported
Date Removed: Not reported
Piping Status: Not reported
527 CMR 9.00: No
DEP Notified: No
DEP Tracking ID: Not reported
Assessing Agncy: Not reported

Facility ID:	3484	Tank ID:	9
Tank Status:	In Use	Tank Use:	MV
Install Date:	4/24/92 0:00:00	Last Used:	Not reported
Capacity:	10000	Leak:	0

Facility Phone: Not reported
Owner: MUTUAL OIL CO., INC.
Owner Address: P.O. BOX 250
BROCKTON, MA 02403
PLYMOUTH County
Owner Phone: Not reported
Serial Num: Not reported
Aboveground: No
Contents: Gasoline
Hazardous: No
CERCLA Num: Not reported
Case Num: Not reported
Lined Tank: No
Excavation Liner: No
Pipe Repaired: No
Pipe Repair Date: Not reported
Gravity Feed: No

Manuf Certified:	No	Implement Certif:	No
Engineer Inspect:	No	Implement Insp:	No
Install Checklists:	No	Other Method:	Mfg i

Tank Material: Fiberglass Reinforced Plastic
Tank Contents: Double Walled
Pipe Material: Fiberglass Reinforced Plastic
Pipe Contents: Double Walled
Tank Leak Detect: Interstitial Monitoring
Pipe Leak Detect: Interstitial Space Monitor
Tank Notes: spill containment device, overfill prevention device
Pipe Notes: automatic flow restrictor
Tight Test Date: Not reported
Inventory Control: Manual Gauging
Cath Prot Test: Not reported
Date Removed: Not reported
Piping Status: Not reported
527 CMR 9.00: No
DEP Notified: No
DEP Tracking ID: Not reported

MUTUAL OIL CO., INC. (Continued) **U002007821**

Assessing Agncy: Not reported

Facility ID:	3484	Tank ID:	10
Tank Status:	In Use	Tank Use:	MV
Install Date:	4/24/92 0:00:00	Last Used:	Not reported
Capacity:	12000	Leak:	0

Facility Phone: Not reported
Owner: MUTUAL OIL CO., INC.
Owner Address: P.O. BOX 250
BROCKTON, MA 02403
PLYMOUTH County
Owner Phone: Not reported
Serial Num: Not reported
Aboveground: No
Contents: Gasoline
Hazardous: No
CERCLA Num: Not reported
Case Num: Not reported
Lined Tank: No
Excavation Liner: No
Pipe Repaired: No
Pipe Repair Date: Not reported
Gravity Feed: No

Manuf Certified:	No	Implement Certif:	No
Engineer Inspect:	No	Implement Insp:	No
Install Checklists:	No	Other Method:	Mfg i

Tank Material: Fiberglass Reinforced Plastic
Tank Contents: Double Walled
Pipe Material: Fiberglass Reinforced Plastic
Pipe Contents: Double Walled
Tank Leak Detect: Interstitial Monitoring
Pipe Leak Detect: Interstitial Space Monitor
Tank Notes: spill containment device, overfill prevention device
Pipe Notes: automatic flow restrictor
Tight Test Date: Not reported
Inventory Control: Manual Gauging
Cath Prot Test: Not reported
Date Removed: Not reported
Piping Status: Not reported
527 CMR 9.00: No
DEP Notified: No
DEP Tracking ID: Not reported
Assessing Agncy: Not reported

Facility ID:	3484	Tank ID:	11
Tank Status:	In Use	Tank Use:	MV
Install Date:	4/24/92 0:00:00	Last Used:	Not reported
Capacity:	6000	Leak:	0

Facility Phone: Not reported
Owner: MUTUAL OIL CO., INC.
Owner Address: P.O. BOX 250
BROCKTON, MA 02403
PLYMOUTH County
Owner Phone: Not reported
Serial Num: Not reported
Aboveground: No
Contents: Diesel

MUTUAL OIL CO., INC. (Continued) **U002007821**

Hazardous: No
CERCLA Num: Not reported
Case Num: Not reported
Lined Tank: No
Excavation Liner: No
Pipe Repaired: No
Pipe Repair Date: Not reported
Gravity Feed: No
Manuf Certified: No
Implement Certif: No
Engineer Inspect: No
Implement Insp: No
Install Checklists: No
Other Method: Mfg i
Tank Material: Fiberglass Reinforced Plastic
Tank Contents: Double Walled
Pipe Material: Fiberglass Reinforced Plastic
Pipe Contents: Double Walled
Tank Leak Detect: Interstitial Monitoring
Pipe Leak Detect: Interstitial Space Monitor
Tank Notes: spill containment device, overfill prevention device
Pipe Notes: automatic flow restrictor
Tight Test Date: Not reported
Inventory Control: Manual Gauging
Cath Prot Test: Not reported
Date Removed: Not reported
Piping Status: Not reported
527 CMR 9.00: No
DEP Notified: No
DEP Tracking ID: Not reported
Assessing Agncy: Not reported

A3
NW
1/8-1/4
998
Higher

MUTUAL SERVICE STATION **LUST** **S100351830**
56 POTOMSKA ST **N/A**
NEW BEDFORD, MA 02740

LUST:

Facility ID:	4-0000485	Current Status:	PHASE 2
Facility Status	Responsible Action Outcome	Site Status:	NON-PRIORITY CONFIRMED
Site Product:	PETROLEUM	Site Type:	21E
Initiating Agency:	SAB	Action Taken by:	RP ONLY
Pub Involvement:	Not reported	LTBI Listing Date:	01/15/1988
Date Confirmed:	01/15/1990	Date Deleted:	Not reported
Date Listed:	Not reported	Region:	Southeast
REQ Type:	Not reported	REQ Due:	Not reported
ERB Number:	Not reported	EPA Number:	Not reported
Action Taken:	Not reported		

Contained in Leaking Underground Storage Tank: Yes

4
WNW
1/8-1/4
1194
Higher

SOUTHEAST TRANSIT AUTHORITY **LUST** **S100829287**
75 POTOMSKA ST **N/A**
NEW BEDFORD, MA 02740

SOUTHEAST TRANSIT AUTHORITY (Continued) **S100829287**

LUST:

Facility ID:	4-0000714	Current Status:	P.A. L
Facility Status	Tier 2 Classification	Site Status:	L.T.B.I.
Site Product:	PETROLEUM	Site Type:	21E
Initiating Agency:	SAB	Action Taken by:	RP ONLY
Pub Involvement:	Not reported	LTBI Listing Date:	10/15/1989
Date Confirmed:	Not reported	Date Deleted:	Not reported
Date Listed:	Not reported	Region:	Southeast
REQ Type:	Not reported	REQ Due:	Not reported
ERB Number:	Not reported	EPA Number:	Not reported
Action Taken:	Not reported		

Contained in Leaking Underground Storage Tank: Yes

5
SSE
1/4-1/2
1790
Higher

DARTMOUTH FINISHING
45 COVE STREET
NEW BEDFORD, MA 02744

CERCLIS Release **1000520652 MAD985275015**

CERCLIS Classification Data:

Site Incident Category:	Non-Oil Spill	Federal Facility:	Not a Federal Facility
Ownership Status:	Private	NPL Status:	Not on the NPL
Site Description:	ABANDONED TEXTILE FINISHING FACILITY		

CERCLIS Assessment History:

Assessment:	REMOVAL ASSESSMENT	Completed:	19970129
Assessment:	REMOVAL	Completed:	19970717
Assessment:	ADMINISTRATIVE RECORDS	Completed:	Not reported

CERCLIS Site Status:
Not reported

MA RELEASE:

Facility ID:	4-0012810
Notification:	01/21/1997
Category:	TWO HR
Chemical Released:	
Chemical:	UNKNOWN CHEMICAL OF TYPE - HAZARDOUS MATERIAL
Amount:	11000, gallons
Location Type:	INDUSTRIAL
ASC Release Tracking Number:	-

6
WNW
1/4-1/2
2194
Higher

STANDARD TAXI
241 COUNTY ST.
NEW BEDFORD, MA

SHWS **S100363079 N/A**

STANDARD TAXI (Continued) **S100363079**

SHWS:

Facility ID:	4-0001052	Current Status:	PHASE 1 C
Facility Status:	DEF TIER 1B	Site Status:	UNCLASSIFIED CONFIRMED
Site Product:	PETROLEUM	Site Type:	21E
Initiating Agency:	ERB	Action Taken by:	RP ONLY
Pub Involvement:	Not reported	LTBI Listing Date:	04/15/1991
REQ Type:	Not reported	REQ Due:	Not reported
Date Confirmed:	04/15/1991	Date Deleted:	Not reported
Date Listed:	Not reported	Region:	Southeast
ERB Number:	S-89-0188	EPA Number:	Not reported
Action Taken:	Not reported		

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7 NNW 1/2-1 3002 Higher **COMMONWEALTH ELECTRIC CO.** **UST** **U000230780**
PINE ST. **SHWS** **N/A**
NEW BEDFORD, MA 02740

SHWS:

Facility ID:	4-0000117	Current Status:	P.A. L
Facility Status:	NFA	Site Status:	L.T.B.I.
Site Product:	HAZARDOUS	Site Type:	21E
Initiating Agency:	EPA	Action Taken by:	RP AND EPA
Pub Involvement:	Not reported	LTBI Listing Date:	01/15/1987
REQ Type:	Not reported	REQ Due:	Not reported
Date Confirmed:	Not reported	Date Deleted:	Not reported
Date Listed:	Not reported	Region:	Southeast
ERB Number:	Not reported	EPA Number:	MAD980915490
Action Taken:	Not reported		

UST:

Facility ID:	3472	Tank ID:	1
Tank Status:	Removed	Tank Use:	Not reported
Install Date:	5/6/73 0:00:00	Last Used:	8/20/90 0:00:00
Capacity:	5000	Leak:	0
Facility Phone:	Not reported		
Owner:	COMMONWEALTH ELECTRIC COMPANY		
Owner Address:	2421 CRANBERRY HIGHWAY WAREHAM, MA 02571 PLYMOUTH County		
Owner Phone:	Not reported		
Serial Num:	Not reported		
Aboveground:	No		
Contents:	Gasoline		
Hazardous:	No		
CERCLA Num:	Not reported		
Case Num:	Not reported		
Lined Tank:	No		
Excavation Liner:	No		
Pipe Repaired:	No		
Pipe Repair Date:	Not reported		
Gravity Feed:	No		
Manuf Certified:	No	Implement Certif:	No
Engineer Inspect:	No	Implement Insp:	No
Install Checklists:	No	Other Method:	Not reported
Tank Material:	Bare Steel		
Tank Contents:	Not reported		
Pipe Material:	Not reported		
Pipe Contents:	Not reported		

COMMONWEALTH ELECTRIC CO. (Continued) **U000230780**

Tank Leak Detect: Not reported
Pipe Leak Detect: Not reported
Tank Notes: Not reported
Pipe Notes: Not reported
Tight Test Date: Not reported
Inventory Control: Not reported
Cath Prot Test: Not reported
Date Removed: Not reported
Piping Status: Not reported
527 CMR 9.00: No
DEP Notified: No
DEP Tracking ID: Not reported
Assessing Agncy: Not reported

Facility ID:	3472	Tank ID:	2
Tank Status:	Removed	Tank Use:	Not reported
Install Date:	5/6/73 0:00:00	Last Used:	7/20/90 0:00:00
Capacity:	5000	Leak:	0

Facility Phone: Not reported
Owner: COMMONWEALTH ELECTRIC COMPANY
Owner Address: 2421 CRANBERRY HIGHWAY
WAREHAM, MA 02571
PLYMOUTH County
Owner Phone: Not reported
Serial Num: Not reported
Aboveground: No
Contents: Gasoline
Hazardous: No
CERCLA Num: Not reported
Case Num: Not reported
Lined Tank: No
Excavation Liner: No
Pipe Repaired: No
Pipe Repair Date: Not reported
Gravity Feed: No

Manuf Certified:	No	Implement Certif:	No
Engineer Inspect:	No	Implement Insp:	No
Install Checklists:	No	Other Method:	Not reported

Tank Material: Bare Steel
Tank Contents: Not reported
Pipe Material: Not reported
Pipe Contents: Not reported
Tank Leak Detect: Not reported
Pipe Leak Detect: Not reported
Tank Notes: Not reported
Pipe Notes: Not reported
Tight Test Date: Not reported
Inventory Control: Not reported
Cath Prot Test: Not reported
Date Removed: Not reported
Piping Status: Not reported
527 CMR 9.00: No
DEP Notified: No
DEP Tracking ID: Not reported
Assessing Agncy: Not reported

Facility ID:	3472	Tank ID:	3

COMMONWEALTH ELECTRIC CO. (Continued) **U000230780**

Tank Status:	Removed	Tank Use:	Not reported
Install Date:	5/6/76 0:00:00	Last Used:	8/20/90 0:00:00
Capacity:	5000	Leak:	0
Facility Phone:	Not reported		
Owner:	COMMONWEALTH ELECTRIC COMPANY		
Owner Address:	2421 CRANBERRY HIGHWAY WAREHAM, MA 02571 PLYMOUTH County		
Owner Phone:	Not reported		
Serial Num:	Not reported		
Aboveground:	No		
Contents:	Diesel		
Hazardous:	No		
CERCLA Num:	Not reported		
Case Num:	Not reported		
Lined Tank:	No		
Excavation Liner:	No		
Pipe Repaired:	No		
Pipe Repair Date:	Not reported		
Gravity Feed:	No		
Manuf Certified:	No	Implement Certif:	No
Engineer Inspect:	No	Implement Insp:	No
Install Checklists:	No	Other Method:	Not reported
Tank Material:	Bare Steel		
Tank Contents:	Not reported		
Pipe Material:	Not reported		
Pipe Contents:	Not reported		
Tank Leak Detect:	Not reported		
Pipe Leak Detect:	Not reported		
Tank Notes:	Not reported		
Pipe Notes:	Not reported		
Tight Test Date:	Not reported		
Inventory Control:	Not reported		
Cath Prot Test:	Not reported		
Date Removed:	Not reported		
Piping Status:	Not reported		
527 CMR 9.00:	No		
DEP Notified:	No		
DEP Tracking ID:	Not reported		
Assessing Agncy:	Not reported		

Facility ID:	3472	Tank ID:	4
Tank Status:	Removed	Tank Use:	Not reported
Install Date:	5/6/81 0:00:00	Last Used:	10/10/92 0:00:00
Capacity:	10000	Leak:	0
Facility Phone:	Not reported		
Owner:	COMMONWEALTH ELECTRIC COMPANY		
Owner Address:	2421 CRANBERRY HIGHWAY WAREHAM, MA 02571 PLYMOUTH County		
Owner Phone:	Not reported		
Serial Num:	Not reported		
Aboveground:	No		
Contents:	Gasoline		
Hazardous:	No		
CERCLA Num:	Not reported		
Case Num:	Not reported		

COMMONWEALTH ELECTRIC CO. (Continued) **U000230780**

Lined Tank: No
Excavation Liner: No
Pipe Repaired: No
Pipe Repair Date: Not reported
Gravity Feed: No
Manuf Certified: No
Implement Certif: No
Engineer Inspect: No
Implement Insp: No
Install Checklists: No
Other Method: Not reported
Tank Material: Bare Steel
Tank Contents: Not reported
Pipe Material: Not reported
Pipe Contents: Not reported
Tank Leak Detect: Not reported
Pipe Leak Detect: Not reported
Tank Notes: Not reported
Pipe Notes: Not reported
Tight Test Date: Not reported
Inventory Control: Not reported
Cath Prot Test: Not reported
Date Removed: Not reported
Piping Status: Not reported
527 CMR 9.00: No
DEP Notified: No
DEP Tracking ID: Not reported
Assessing Agncy: Not reported

Facility ID: 3472
Tank ID: 5
Tank Status: Removed
Tank Use: Not reported
Install Date: 5/6/73 0:00:00
Last Used: 8/20/90 0:00:00
Capacity: 500
Leak: 0
Facility Phone: Not reported
Owner: COMMONWEALTH ELECTRIC COMPANY
Owner Address: 2421 CRANBERRY HIGHWAY
WAREHAM, MA 02571
PLYMOUTH County
Owner Phone: Not reported
Serial Num: Not reported
Aboveground: No
Contents: Waste Oil
Hazardous: No
CERCLA Num: Not reported
Case Num: Not reported
Lined Tank: No
Excavation Liner: No
Pipe Repaired: No
Pipe Repair Date: Not reported
Gravity Feed: No
Manuf Certified: No
Implement Certif: No
Engineer Inspect: No
Implement Insp: No
Install Checklists: No
Other Method: Not reported
Tank Material: Bare Steel
Tank Contents: Not reported
Pipe Material: Not reported
Pipe Contents: Not reported
Tank Leak Detect: Not reported
Pipe Leak Detect: Not reported
Tank Notes: Not reported

COMMONWEALTH ELECTRIC CO. (Continued) **U000230780**

Pipe Notes: Not reported
Tight Test Date: Not reported
Inventory Control: Not reported
Cath Prot Test: Not reported
Date Removed: Not reported
Piping Status: Not reported
527 CMR 9.00: No
DEP Notified: No
DEP Tracking ID: Not reported
Assessing Agncy: Not reported

Facility ID:	3472	Tank ID:	6
Tank Status:	In Use	Tank Use:	MV
Install Date:	8/1/90 0:00:00	Last Used:	Not reported
Capacity:	10000	Leak:	0

Facility Phone: Not reported
Owner: COMMONWEALTH ELECTRIC COMPANY
Owner Address: 2421 CRANBERRY HIGHWAY
WAREHAM, MA 02571
PLYMOUTH County
Owner Phone: Not reported
Serial Num: Not reported
Aboveground: No
Contents: Gasoline
Hazardous: No
CERCLA Num: Not reported
Case Num: Not reported
Lined Tank: No
Excavation Liner: No
Pipe Repaired: No
Pipe Repair Date: Not reported
Gravity Feed: No

Manuf Certified:	No	Implement Certif:	No
Engineer Inspect:	No	Implement Insp:	No
Install Checklists:	No	Other Method:	Mfg K

Tank Material: Fiberglass Reinforced Plastic
Tank Contents: Double Walled
Pipe Material: Fiberglass Reinforced Plastic
Pipe Contents: Double Walled
Tank Leak Detect: Interstitial Monitoring
Pipe Leak Detect: Interstitial Space Monitor
Tank Notes: spill containment device, overfill prevention device
Pipe Notes: Not reported
Tight Test Date: Not reported
Inventory Control: Automatic Gauging
Cath Prot Test: Not reported
Date Removed: Not reported
Piping Status: In Use
527 CMR 9.00: No
DEP Notified: No
DEP Tracking ID: Not reported
Assessing Agncy: Not reported

Facility ID:	3472	Tank ID:	7
Tank Status:	In Use	Tank Use:	MV
Install Date:	8/1/90 0:00:00	Last Used:	Not reported
Capacity:	10000	Leak:	0

COMMONWEALTH ELECTRIC CO. (Continued) **U000230780**

Facility Phone: Not reported
Owner: COMMONWEALTH ELECTRIC COMPANY
Owner Address: 2421 CRANBERRY HIGHWAY
WAREHAM, MA 02571
PLYMOUTH County
Owner Phone: Not reported
Serial Num: Not reported
Aboveground: No
Contents: Diesel
Hazardous: No
CERCLA Num: Not reported
Case Num: Not reported
Lined Tank: No
Excavation Liner: No
Pipe Repaired: No
Pipe Repair Date: Not reported
Gravity Feed: No
Manuf Certified: No
Implement Certif: No
Engineer Inspect: No
Implement Insp: No
Install Checklists: No
Other Method: Mfg K
Tank Material: Fiberglass Reinforced Plastic
Tank Contents: Double Walled
Pipe Material: Fiberglass Reinforced Plastic
Pipe Contents: Double Walled
Tank Leak Detect: Interstitial Monitoring
Pipe Leak Detect: Interstitial Space Monitor
Tank Notes: spill containment device, overfill prevention device
Pipe Notes: Not reported
Tight Test Date: Not reported
Inventory Control: Automatic Gauging
Cath Prot Test: Not reported
Date Removed: Not reported
Piping Status: In Use
527 CMR 9.00: No
DEP Notified: No
DEP Tracking ID: Not reported
Assessing Agncy: Not reported

8
NW
1/2-1
3011
Higher

MORSE CUTTING TOOLS
163 PLEASANT STREET
NEW BEDFORD, MA 02740

RCRIS-LQG 1000378887
CERC-NFRAP MAD051505683
UST
MA Spills
SHWS

CERCLIS-NFRAP Classification Data:
Site Incident Category: Not reported
Federal Facility: Not reported
Ownership Status: Private
NPL Status: Not on the NPL
CERCLIS-NFRAP Assessment History:

Assessment:	REMOVAL ASSESSMENT	Completed:	19920303
Assessment:	REMOVAL	Completed:	19920702
Assessment:	COST RECVRY DECSN DOCMT-NO SUE	Completed:	19950404
Assessment:	NON-NPL PRP SEARCH	Completed:	19950404
Assessment:	ADMINISTRATIVE RECORDS	Completed:	Not reported
Assessment:	REMOVAL ASSESSMENT	Completed:	Not reported

MORSE CUTTING TOOLS (Continued) **1000378887**

RCRIS:

Owner: RONALD E HENDERSON MGR SAFETY & SECUR
(617) 994-9611

Contact: JAMES WILLIAMS
(508) 994-9611

Record Date: 08/18/1980

Classification: Large Quantity Generator

Used Oil Recyc: No

Violation Status: Violation information exist

There are 6 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	07/01/1992
Other Evaluation	Generator-All Requirements	04/09/1987
Non-Financial Record Review	Generator-All Requirements	02/27/1992
	Generator-All Requirements	02/27/1992
Compliance Evaluation Inspection (CEI)	Generator-All Requirements	09/10/1985
	Generator-All Requirements	09/10/1985

SHWS:

Facility ID:	4-0001203	Current Status:	P.A. L
Facility Status:	TIER 2	Site Status:	L.T.B.I.
Site Product:	BOTH	Site Type:	21E
Initiating Agency:	ERB	Action Taken by:	DEP AND EPA
Pub Involvement:	YES	LTBI Listing Date:	07/15/1992
REQ Type:	Not reported	REQ Due:	Not reported
Date Confirmed:	Not reported	Date Deleted:	Not reported
Date Listed:	Not reported	Region:	Southeast
ERB Number:	S-92-0124	EPA Number:	Not reported

Action Taken: Removal of the contamination source (such as drums, tanks or contaminated soil) to a licensed facility.

MORSE CUTTING TOOLS (Continued) **1000378887**

MA Spills:

Facility ID:	4-1203	Spill ID:	S92-0124
Staff Lead:	MORAN, M	Date Entered:	Not reported
Last Entered:	03/11/1992	First Response:	02/27/1992
Spill Date:	02/27/1992	Report Date:	02/27/1992
Spill Time:	Not reported	Report Time:	01:00PM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	WASTE	Contam Soil:	Not reported
Env Impact:	----------	Other Impact:	Not reported
Material:	WASTE OIL		
Other Material:	Not reported		
CAS No:	Not reported	PCB Lev (ppm):	----------
Qty Reported:	UNKNOWN GALLONS	Qty Actual:	UNKNOWN GALLONS
Source:	OTHER SOURCE >	Other Source:	ABANDONED
Incident:	OTHER RELEASE >	Other Incdnt:	BUILDING
Cleanup Type:	---	Contractor:	NOT USED
Referral:	SA	LUST Elig:	NO
Notifier:	LT GAUTHIER/FD		
Notif Tel:	Not reported	Notify Date:	Not reported
Report Prep:	Not reported	Category:	Not reported
Days/Close:	0	Capacity:	Not reported
Chemical:	Not reported		
Quantity:	Not reported		

Facility ID:	0000	Spill ID:	S93-0620
Staff Lead:	OTHER	Date Entered:	02/24/1994
Last Entered:	02/24/1994	First Response:	08/25/1993
Spill Date:	08/25/0768	Report Date:	08/25/1993
Spill Time:	Not reported	Report Time:	01:30
Case Closed:	YES	Mat Type:	UNKNOWN
Virgin Waste:	------	Contam Soil:	Not reported
Env Impact:	SOIL	Other Impact:	Not reported
Material:	OTHER MATERIAL -->		
Other Material:	CUTTING OIL		
CAS No:	Not reported	PCB Lev (ppm):	----------
Qty Reported:	---------- ----------	Qty Actual:	UNKNOWN ----------
Source:	OTHER SOURCE >	Other Source:	UNKNOWN
Incident:	OTHER RELEASE >	Other Incdnt:	UNKNOWN
Cleanup Type:	---	Contractor:	NOT USED
Referral:	NO	LUST Elig:	NO
Notifier:	BILL BACKBURN/NB HEALTH DEPT		
Notif Tel:	Not reported	Notify Date:	Not reported
Report Prep:	Not reported	Category:	Not reported
Days/Close:	0	Capacity:	Not reported
Chemical:	Not reported		
Quantity:	Not reported		

UST:

Facility ID:	3406	Tank ID:	1
Tank Status:	Removed	Tank Use:	Not reported
Install Date:	4/22/72 0:00:00	Last Used:	10/10/88 0:00:00
Capacity:	50	Leak:	0
Facility Phone:	Not reported		
Owner:	MORSE CUTTING TOOLS		
Owner Address:	163 PLEASANT ST. NEW BEDFORD, MA 02742 BRISTOL County		

MORSE CUTTING TOOLS (Continued) **1000378887**

Owner Phone: Not reported
Serial Num: Not reported
Aboveground: No
Contents: Gasoline
Hazardous: No
CERCLA Num: Not reported
Case Num: Not reported
Lined Tank: No
Excavation Liner: No
Pipe Repaired: No
Pipe Repair Date: Not reported
Gravity Feed: No
Manuf Certified: No
Engineer Inspect: No
Install Checklists: No
Implement Certif: No
Implement Insp: No
Other Method: Not reported
Tank Material: Bare Steel
Tank Contents: Not reported
Pipe Material: Not reported
Pipe Contents: Not reported
Tank Leak Detect: Not reported
Pipe Leak Detect: Not reported
Tank Notes: Not reported
Pipe Notes: Not reported
Tight Test Date: Not reported
Inventory Control: Not reported
Cath Prot Test: Not reported
Date Removed: Not reported
Piping Status: Not reported
527 CMR 9.00: No
DEP Notified: No
DEP Tracking ID: Not reported
Assessing Agncy: Not reported

Facility ID: 3406
Tank ID: 2
Tank Status: Removed
Tank Use: Not reported
Install Date: 4/22/56 0:00:00
Last Used: Not reported
Capacity: 500
Leak: 0
Facility Phone: Not reported
Owner: MORSE CUTTING TOOLS
Owner Address: 163 PLEASANT ST.
NEW BEDFORD, MA 02742
BRISTOL County
Owner Phone: Not reported
Serial Num: Not reported
Aboveground: No
Contents: Not reported
Hazardous: No
CERCLA Num: Not reported
Case Num: Not reported
Lined Tank: No
Excavation Liner: No
Pipe Repaired: No
Pipe Repair Date: Not reported
Gravity Feed: No
Manuf Certified: No
Engineer Inspect: No
Install Checklists: No
Implement Certif: No
Implement Insp: No
Other Method: Not reported

MORSE CUTTING TOOLS (Continued) **1000378887**

Tank Material: Bare Steel
Tank Contents: Not reported
Pipe Material: Not reported
Pipe Contents: Not reported
Tank Leak Detect: Not reported
Pipe Leak Detect: Not reported
Tank Notes: Not reported
Pipe Notes: Not reported
Tight Test Date: Not reported
Inventory Control: Not reported
Cath Prot Test: Not reported
Date Removed: 3/1/70 0:00:00
Piping Status: Not reported
527 CMR 9.00: No
DEP Notified: No
DEP Tracking ID: Not reported
Assessing Agncy: Not reported

Facility ID: 3406
Tank ID: 3
Tank Status: Removed
Tank Use: Not reported
Install Date: 4/22/74 0:00:00
Last Used: 10/10/88 0:00:00
Capacity: 10000
Leak: 0
Facility Phone: Not reported
Owner: MORSE CUTTING TOOLS
Owner Address: 163 PLEASANT ST.
NEW BEDFORD, MA 02742
BRISTOL County
Owner Phone: Not reported
Serial Num: Not reported
Aboveground: No
Contents: Not reported
Hazardous: No
CERCLA Num: Not reported
Case Num: Not reported
Lined Tank: No
Excavation Liner: No
Pipe Repaired: No
Pipe Repair Date: Not reported
Gravity Feed: No
Manuf Certified: No
Implement Certif: No
Engineer Inspect: No
Implement Insp: No
Install Checklists: No
Other Method: Not reported
Tank Material: Bare Steel
Tank Contents: Not reported
Pipe Material: Not reported
Pipe Contents: Not reported
Tank Leak Detect: Not reported
Pipe Leak Detect: Not reported
Tank Notes: Not reported
Pipe Notes: Not reported
Tight Test Date: Not reported
Inventory Control: Not reported
Cath Prot Test: Not reported
Date Removed: Not reported
Piping Status: Not reported
527 CMR 9.00: No
DEP Notified: No

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
	MORSE CUTTING TOOLS (Continued)		**1000378887**

DEP Tracking ID: Not reported
Assessing Agncy: Not reported

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9 South 1/2-1 3251 Higher	**FURNITURE CITY** **127 W. RODNEY FRENCH BLVD** **NEW BEDFORD, MA 02720**	**SHWS**	**S101856610** **N/A**

SHWS:

Facility ID:	4-0000675	Current Status:	PHASE 1 C
Facility Status:	RAO	Site Status:	CONFIRMED
Site Product:	PETROLEUM	Site Type:	21E
Initiating Agency:	SAB	Action Taken by:	RP ONLY
Pub Involvement:	Not reported	LTBI Listing Date:	04/15/1989
REQ Type:	Not reported	REQ Due:	Not reported
Date Confirmed:	07/15/1989	Date Deleted:	Not reported
Date Listed:	Not reported	Region:	Southeast
ERB Number:	Not reported	EPA Number:	Not reported
Action Taken:	Not reported		

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10 NNW 1/2-1 4919 Higher	**NEW BEDFORD GAS & EDISON LIGHT CO.** **230 SOUTH WATER ST.** **NEW BEDFORD, MA 02740**	**Coal Gas**	**G000000294** **N/A**

COAL GAS SITE DESCRIPTION:
Site is on the eastern side of South Water, north of Coffin St. Site is east of the end of Madison. Site continued south of Coffin at 300 S. Water St. This area was primarily storage.

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ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)	Facility ID
FAIRHAVEN	1000381186	MARSH ISLAND	ADJACENT TO RTE. 195 OVERPASS	02719	CERC-NFRAP, SHWS	4-0000070
FAIRHAVEN	S100361204	RIVERSIDE/LOTS 33-36; 53-55	RIVER AVE.	02719	SHWS	4-0000246
NEW BEDFORD	1000353014	RAILROAD DEPOT	ROUTE 18	02719	CERCLIS, SHWS	4-0000118
NEW BEDFORD	S101395167	SULLIVANS LEDGE LANDFILL	RTE 195/RTE 140/HATHAWAY RD		SWF/LF	SL0201.005
NEW BEDFORD	S103250234	MAINLINE TIRE CO.	ATLANTIC MILLS COMPLEX, COGGES		SWF/LF	TI0201.008
NEW BEDFORD	1000308417	FRANCIS PLAYGROUND	COVE ROAD	02740	CERC-NFRAP, SHWS	4-0000856
NEW BEDFORD	U001004842	FRONT ST. PUMP STATION	FRONT ST.	02740	UST	3371
NEW BEDFORD	S100829286	SEWAGE PUMP STATION	HOWARD AVE.	02740	SHWS	4-0000120
NEW BEDFORD	S100829288	SUBSTATIONS/INTERCEPTORS	HOWARD AVE STATION	02740	SHWS	4-0000127
NEW BEDFORD	1000335359	EXXON CO U S A	1097 KEMPTON RD RTE 6	02740	RCRIS-SQG, FINDS	
NEW BEDFORD	S100423522	NEW BEDFORD LANDFILL	LIBERTY ST		SWF/LF	SL0201.004
NEW BEDFORD	S100829276	FISH ISLAND	NEW BEDFORD HARBOR/RTE 6	02740	SHWS	4-0000854
NEW BEDFORD	S100361794	TELEDYNE/BRITTANY DYE	E. RODNEY FRENCH BLVD	02740	SHWS	4-0000129
NEW BEDFORD	S100829278	ISOTRONICS	SAMUEL BARNET BLVD	02740	SHWS	4-0000780
NEW BEDFORD	1000178455	US COAST GUARD BIBB	STATE PIER	02740	FINDS, RCRIS-LQG	
NEW BEDFORD	S100361768	BRISTOL MILL LOT	WASHBURN/COGGES/BELLEVILLE	02740	SHWS	4-0000243
NEW BEDFORD	1000178456	US COAST GUARD CUTTER	WMEC 909 STATE PIER	02740	RCRIS-SQG, FINDS	

GEOCHECK VERSION 2.1 ADDENDUM
GROUNDWATER FLOW INFORMATION

Map ID Direction Distance Elevation	Site	
1g	Site ID:	4-0001168
NNW	Groundwater Flow:	NE
1 - 2 Miles	Shallowest Water Table Depth:	2.5
Lower	Deepest Water Table Depth:	13.5
	Date:	2/1996
2g	Site ID:	4-0000337
NNE	Groundwater Flow:	W
1 - 2 Miles	Shallowest Water Table Depth:	95.40
Lower	Deepest Water Table Depth:	93.54
	Date:	2/1987
3g	Site ID:	4-0000377
NNE	Groundwater Flow:	Not Reported
1 - 2 Miles	Shallowest Water Table Depth:	95.40
Lower	Deepest Water Table Depth:	93.54
	Date:	5/1989
4g	Site ID:	4-0001284
WNW	Groundwater Flow:	S
1 - 2 Miles	Shallowest Water Table Depth:	8.60
Lower	Deepest Water Table Depth:	9.80
	Date:	11/1992
5g	Site ID:	4-0001284
WNW	Groundwater Flow:	Not Reported
1 - 2 Miles	Shallowest Water Table Depth:	8.60
Lower	Deepest Water Table Depth:	9.80
	Date:	11/1992
7g	Site ID:	4-0000785
NE	Groundwater Flow:	VARIES
1 - 2 Miles	Shallowest Water Table Depth:	6.4
Lower	Deepest Water Table Depth:	7.9
	Date:	8/15/1989
8g	Site ID:	4-0000119
WNW	Groundwater Flow:	NOT REPORTED
1/2 - 1 Mile	Shallowest Water Table Depth:	7.1
Lower	Deepest Water Table Depth:	8.4
	Date:	10/10/1985
9g	Site ID:	4-0000485
NW	Groundwater Flow:	VARIES
1/8 - 1/4 Mile	Shallowest Water Table Depth:	5.5
Lower	Deepest Water Table Depth:	7
	Date:	4/11/1991
10g	Site ID:	4-0000688
WSW	Groundwater Flow:	VARIES
1/2 - 1 Mile	Shallowest Water Table Depth:	6.64
Lower	Deepest Water Table Depth:	15.63
	Date:	7/10/1991

GEOCHECK VERSION 2.1
GROUNDWATER FLOW INFORMATION

Map ID Direction Distance Elevation	Site	
11g **WSW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallowest Water Table Depth: Deepest Water Table Depth: Date:	4-0000688 Not Reported 6.64 15.63 6/11/1992
12g **SW** **1 - 2 Miles** **Lower**	Site ID: Groundwater Flow: Shallowest Water Table Depth: Deepest Water Table Depth: Date:	4-0000217 Not Reported 5.58 10.40 2/1991
13g **SW** **1 - 2 Miles** **Lower**	Site ID: Groundwater Flow: Shallowest Water Table Depth: Deepest Water Table Depth: Date:	4-0000217 SW 5.58 10.40 9/1988

The following regulatory files were reviewed by a member of EDR's professional field research team in an effort to identify groundwater flow direction and depth information. However, this information was not evident in the reports. This may be for a number of reasons, such as groundwater monitoring wells not being part of the field work or groundwater not having been encountered during drilling. This information is provided to save you time and money in the conduct of your hydrogeological research.

Map ID	Date	Type Of Report
6g	10/22/1997	Technical Memorandum Remedial Alternatives Screeni

GEOCHECK VERSION 2.1
FEDERAL DATABASE WELL INFORMATION

Well Closest to Target Property (Northern Quadrant)

BASIC WELL DATA

Site ID:	413739070553101	Distance from TP:	1/2 - 1 Mile
Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1905	County:	Bristol
Altitude:	22.00 ft.	State:	Massachusetts
Well Depth:	225.00 ft.	Topographic Setting:	Hillside (slope)
Depth to Water Table:	10.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	11011905	Prim. Use of Water:	Industrial

LITHOLOGIC DATA

Geologic Age ID (Era/System/Series):	Unknown
Principal Lithology of Unit:	Not Reported
Further Description:	Not Reported

WATER LEVEL VARIABILITY

Not Reported

GEOCHECK VERSION 2.1
FEDERAL DATABASE WELL INFORMATION

Well Closest to Target Property (Eastern Quadrant)

BASIC WELL DATA

Site ID:	413811070534101	Distance from TP:	1 - 2 Miles
Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1950	County:	Bristol
Altitude:	8.00 ft.	State:	Massachusetts
Well Depth:	10.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	1.00 ft.	Prim. Use of Site:	Test
Date Measured:	01011950	Prim. Use of Water:	Unused

LITHOLOGIC DATA

Not Reported

WATER LEVEL VARIABILITY

Not Reported

GEOCHECK VERSION 2.1
FEDERAL DATABASE WELL INFORMATION

Well Closest to Target Property (Southern Quadrant)

BASIC WELL DATA

Site ID:	413709070545801	Distance from TP:	1/8 - 1/4 Mile
Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Bristol
Altitude:	5.00 ft.	State:	Massachusetts
Well Depth:	87.00 ft.	Topographic Setting:	Valley flat
Depth to Water Table:	Not Reported	Prim. Use of Site:	Withdrawal of water
Date Measured:	Not Reported	Prim. Use of Water:	Industrial

LITHOLOGIC DATA

Geologic Age ID (Era/System/Series):	Unknown
Principal Lithology of Unit:	Not Reported
Further Description:	Not Reported

WATER LEVEL VARIABILITY

Not Reported

GEOCHECK VERSION 2.1
FEDERAL DATABASE WELL INFORMATION

Well Closest to Target Property (Western Quadrant)

BASIC WELL DATA

Site ID:	413735070554201	Distance from TP:	1/2 - 1 Mile
Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1925	County:	Bristol
Altitude:	40.00 ft.	State:	Massachusetts
Well Depth:	146.00 ft.	Topographic Setting:	Hillside (slope)
Depth to Water Table:	Not Reported	Prim. Use of Site:	Withdrawal of water
Date Measured:	Not Reported	Prim. Use of Water:	Industrial

LITHOLOGIC DATA

Geologic Age ID (Era/System/Series):	Unknown
Principal Lithology of Unit:	Not Reported
Further Description:	Not Reported

WATER LEVEL VARIABILITY

Not Reported

GEOCHECK VERSION 2.1
PUBLIC WATER SUPPLY SYSTEM INFORMATION

Searched by Nearest PWS.

PWS SUMMARY:

PWS ID:	MA4094003	PWS Status:	Active	Distance from TP:	1 - 2 Miles
Date Initiated:	April / 1993	Date Deactivated:	Not Reported	Dir relative to TP:	North
PWS Name:	SHAWS COVE IMPROVEMENT ASSN. SHAWS COVE FAIRHAVEN, MA 02719				
Addressee / Facility:	Mailing SHAWS COVE IMPROVEMENT ASSN. 270 ALLEN STREET NEW BEDFORD, MA 02740				
Facility Latitude:	41 38 15		Facility Longitude:	070 54 15	
City Served:	Not Reported				
Treatment Class:	Untreated		Population Served:	Under 101 Persons	

PWS currently has or has had major violation(s): No

MA SPILLS: Historical Spill List
Source: Department of Environmental Protection
Telephone: 617-292-5720
This list includes sudden releases reported to DEP from the mid-1980's through September 30, 1993. This list has been archived and will not undergo further updates. At the vast majority of releases on this list, response actions have been completed and the case is no longer active.

Date of Government Version: 09/30/93
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 07/29/94
Date of Next Scheduled EDR Contact: N/A

Historical and 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.

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

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The information contained in this report has predominantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal opinion.

DELISTED NPL: NPL Deletions
Source: EPA
Telephone: 703-603-8769
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: 01/19/99
Date Made Active at EDR: 02/19/99
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 02/08/99
Elapsed ASTM days: 11
Date of Last EDR Contact: 02/08/99

NFRAP: No Further Remedial Action Planned
Source: EPA
Telephone: 703-413-0223
As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

Date of Government Version: 11/10/98
Date Made Active at EDR: 01/29/99
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 12/29/98
Elapsed ASTM days: 31
Date of Last EDR Contact: 03/03/99

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-260-2805
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: 202-260-2805
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SWDIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

Area Radon Information: 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: Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

Oil/Gas Pipelines/Electrical Transmission Lines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines and electrical transmission lines.

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.

USGS Water Wells: In November 1971 the United States Geological Survey (USGS) implemented a national water resource information tracking system. 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 more than 900,000 wells, springs, and other sources of groundwater.

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1996 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 March 1997 from the U.S. Fish and Wildlife Service.

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Water Dams: National Inventory of Dams
Source: Federal Emergency Management Agency
Telephone: 202-646-2801
National computer database of more than 74,000 dams maintained by the Federal Emergency Management Agency.

Massachusetts Geographic Information System (MassGIS) Datalayers
Source: Executive Office of Environmental Affairs

Community Public Water Supplies Datalayer: Data was compiled by the DEP Division of Water Supply and contains 1435 public community water supplies as defined in 310 CMR 22.00. Both groundwater and surface water supplies are included. As stated in 310 CMR 22.00, a Community Water Supply is part of a community water system "which serves at least fifteen (15) service connections used by year-round residents".

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).

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.

AQUIFLOW™ 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.

APPENDIX B

HISTORICAL SANBORN MAPS

Environmental Data Resources, Inc.

an edr company

"Linking Technology with Tradition"

Sanborn™ Map Report

Ship to: Neil Thurber
Metcalf & Eddy, Inc.
30 Harvard Mill Square
Wakefield, MA 01880

1241585KJG 781-246-5200

Order Date: 4/15/1999 **Completion Date:** 04/16/1999
Inquiry #: 359293.2S
P.O. #: 020655-0002-001
Site Name: Standard Times Field
Address: Front Street/Blackmer Street
City/State: New Bedford, MA 02740
Cross Streets:

Based on client-supplied information, fire insurance maps for the following years were identified

1888 - 1 - map
1893 - 1 - map
1906 - 2 - maps
1924 - 2 - maps
1950 - 2 - maps
1990 - 2 - maps
1992 - 2 - maps
1993 - 2 - maps
1995 - 2 - maps

Total Maps: 16

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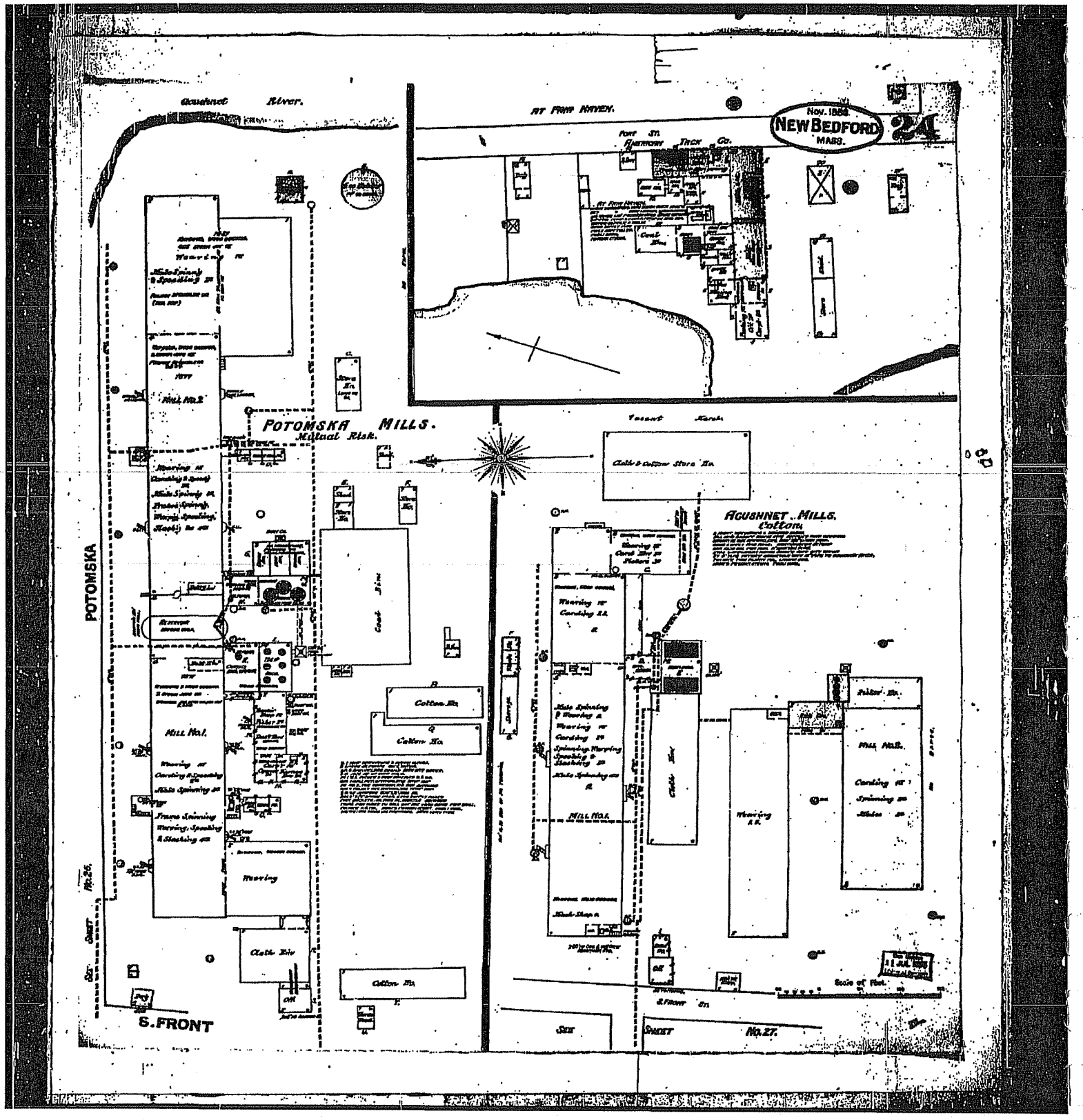

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Year EDR Research Associate

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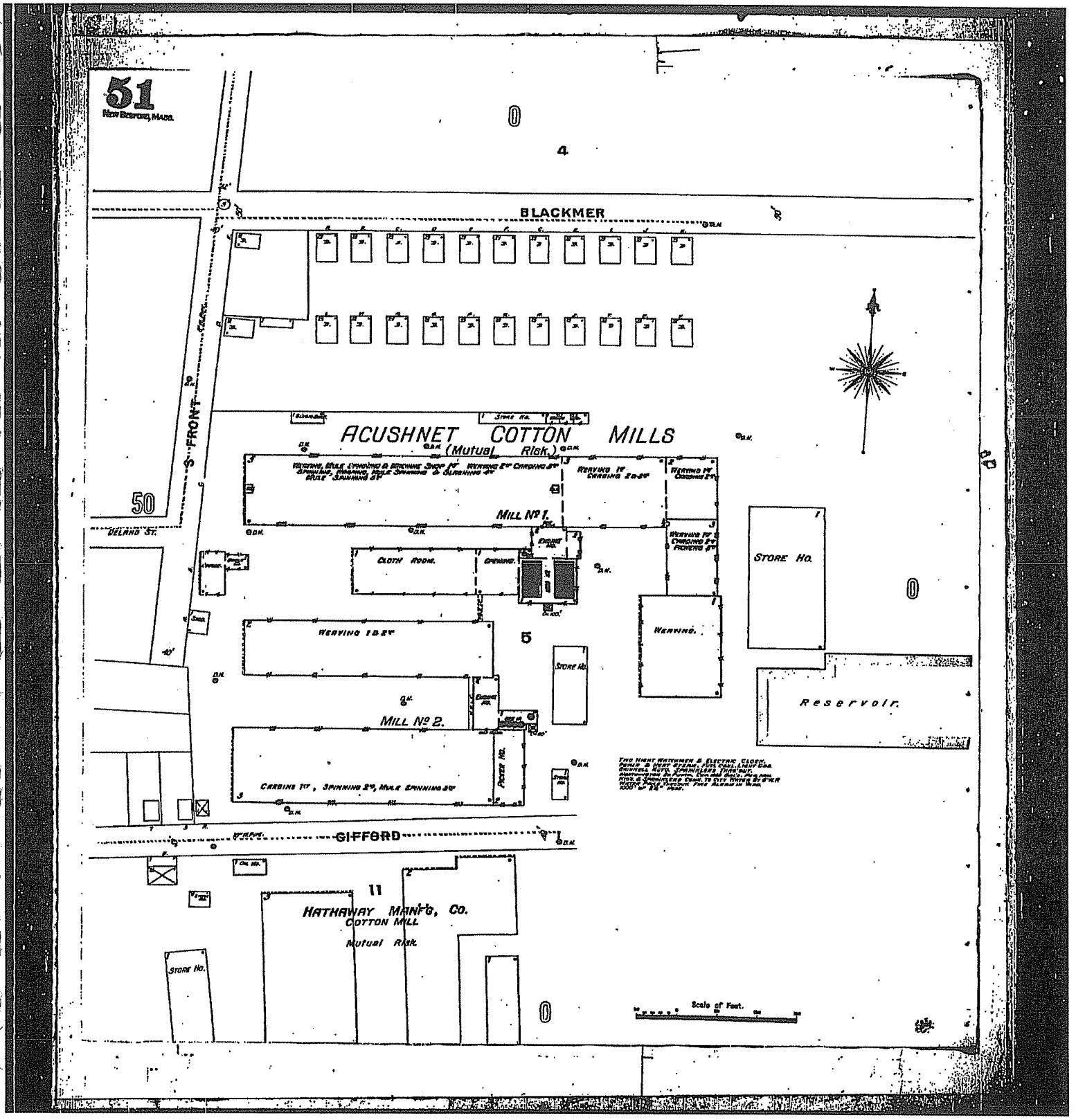

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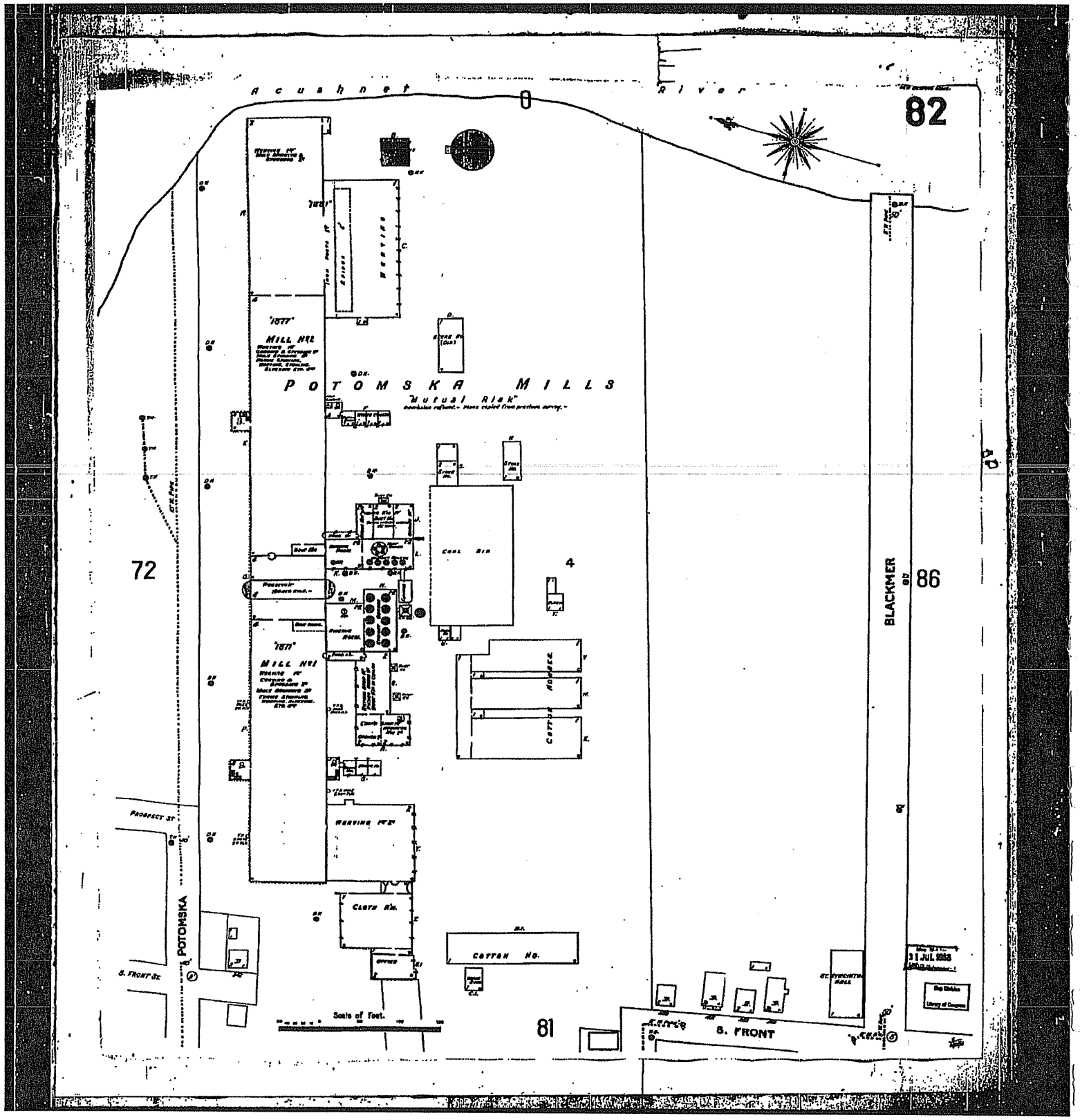

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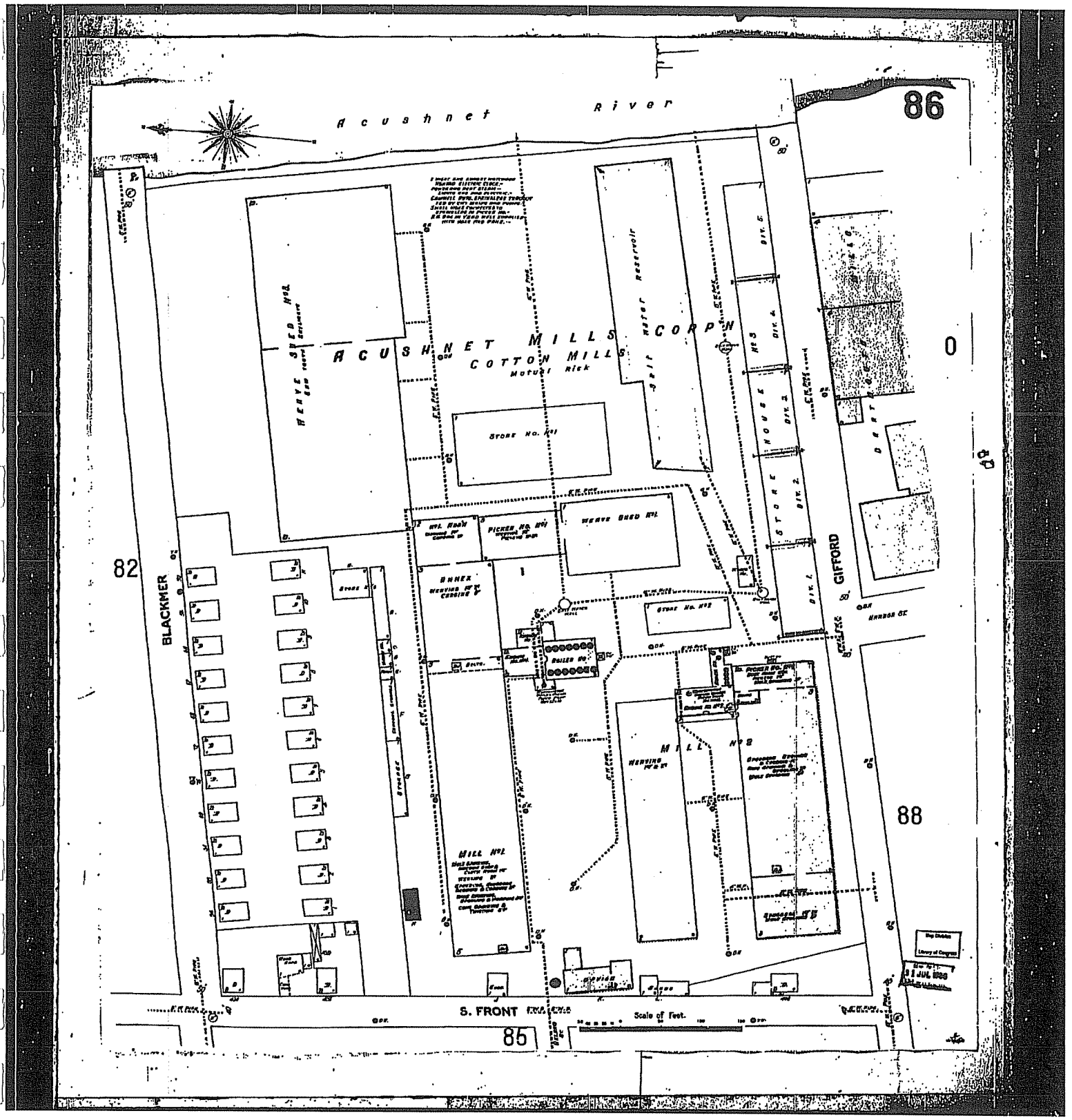

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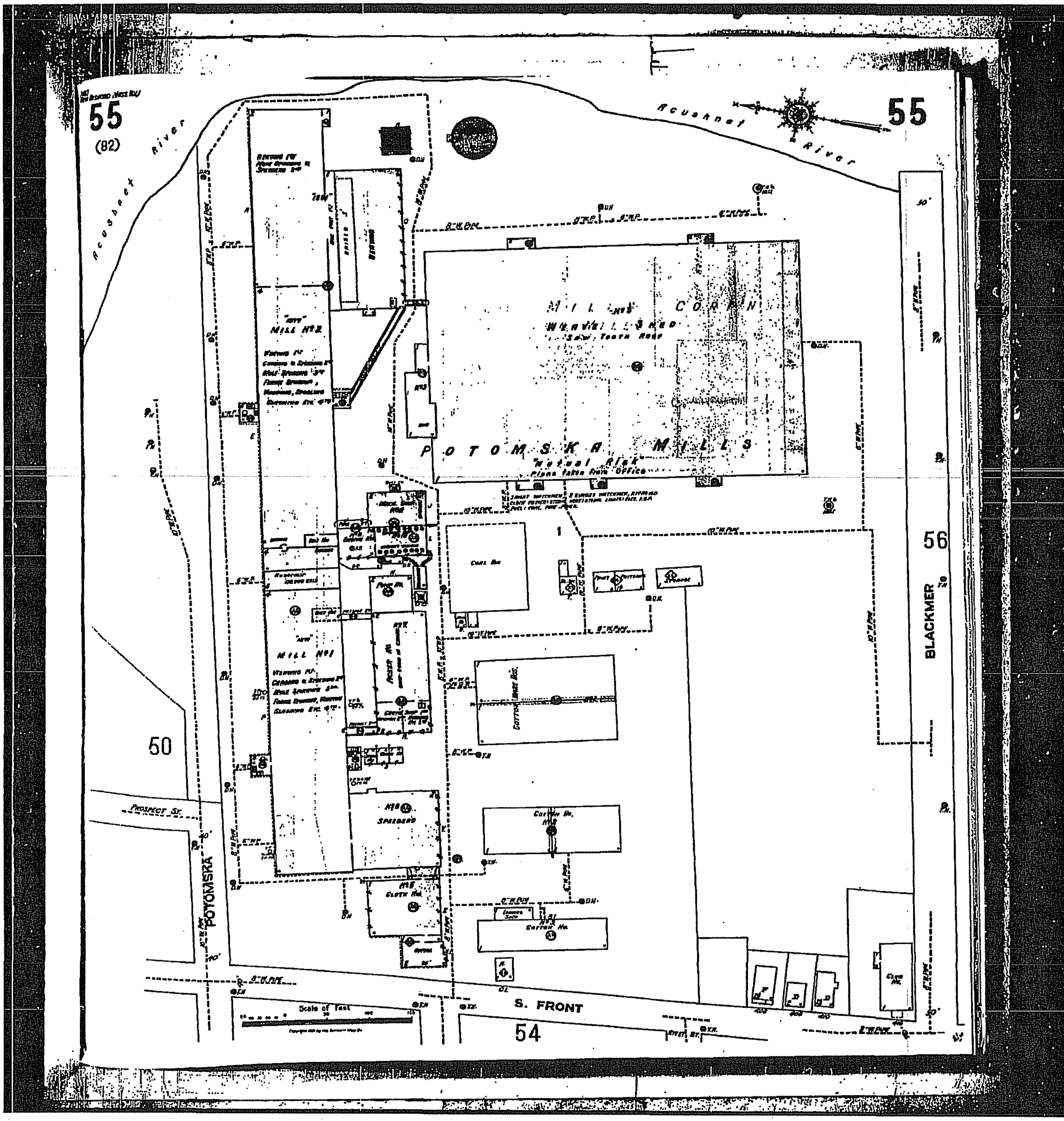

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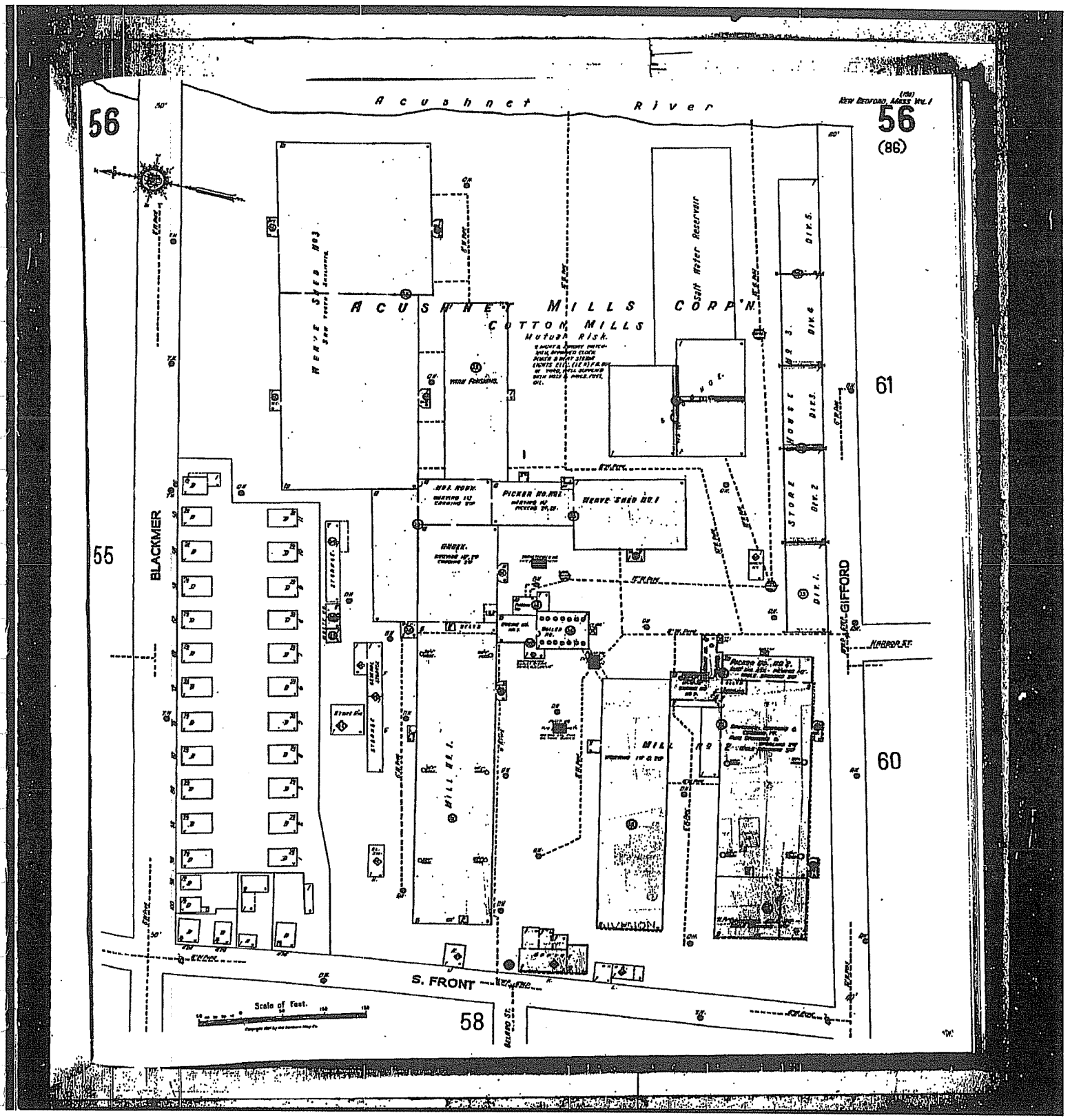

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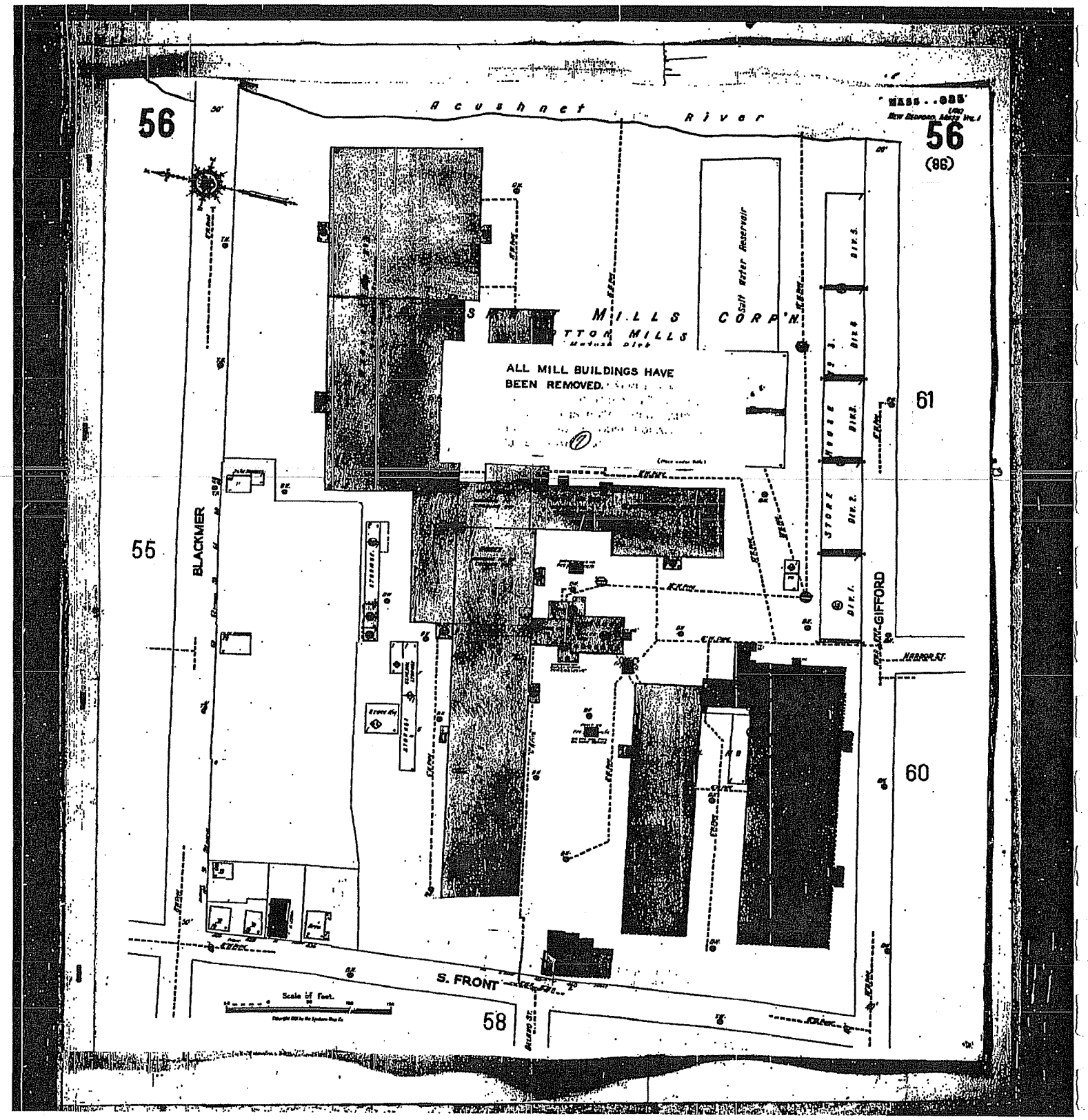

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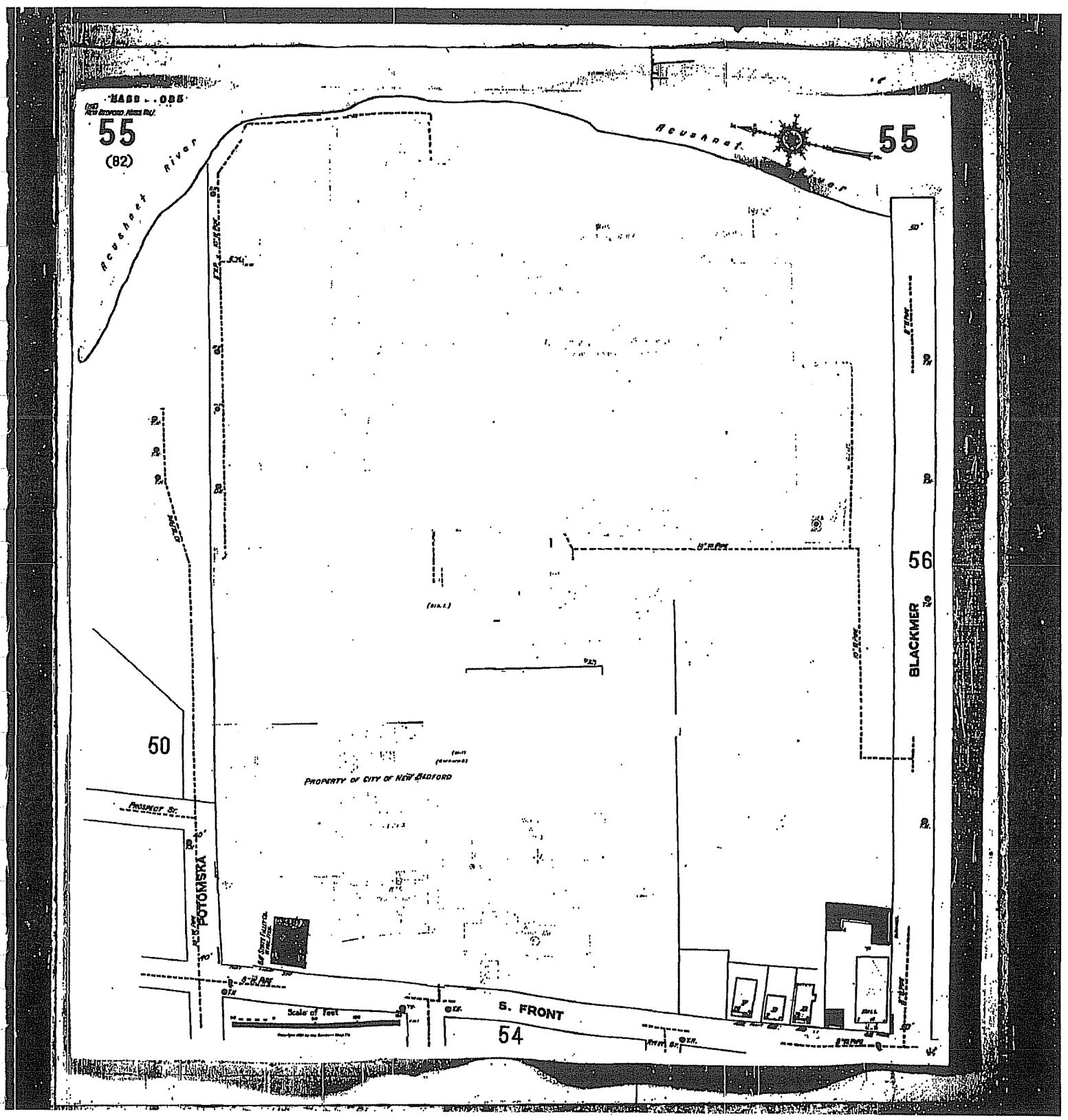

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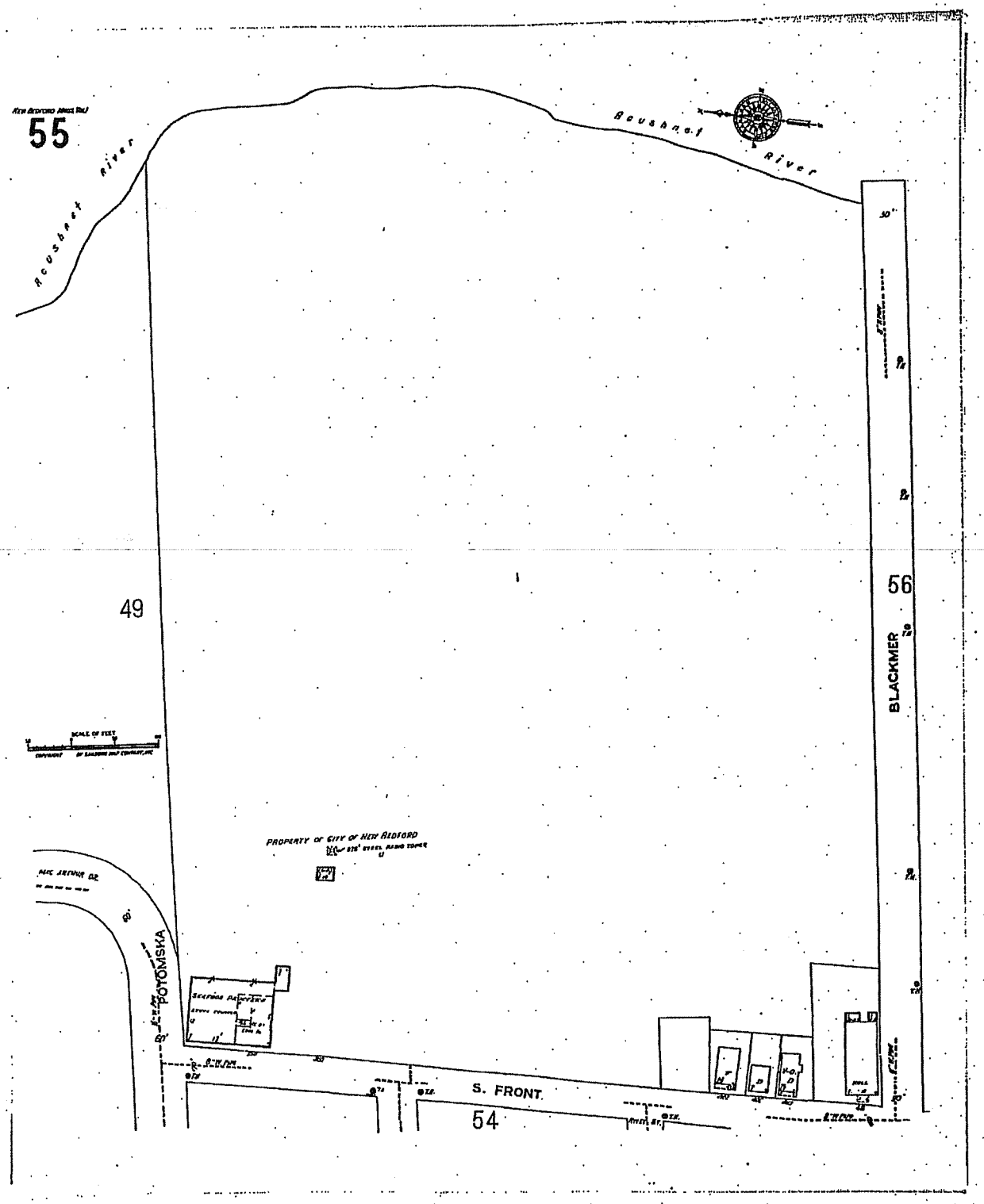

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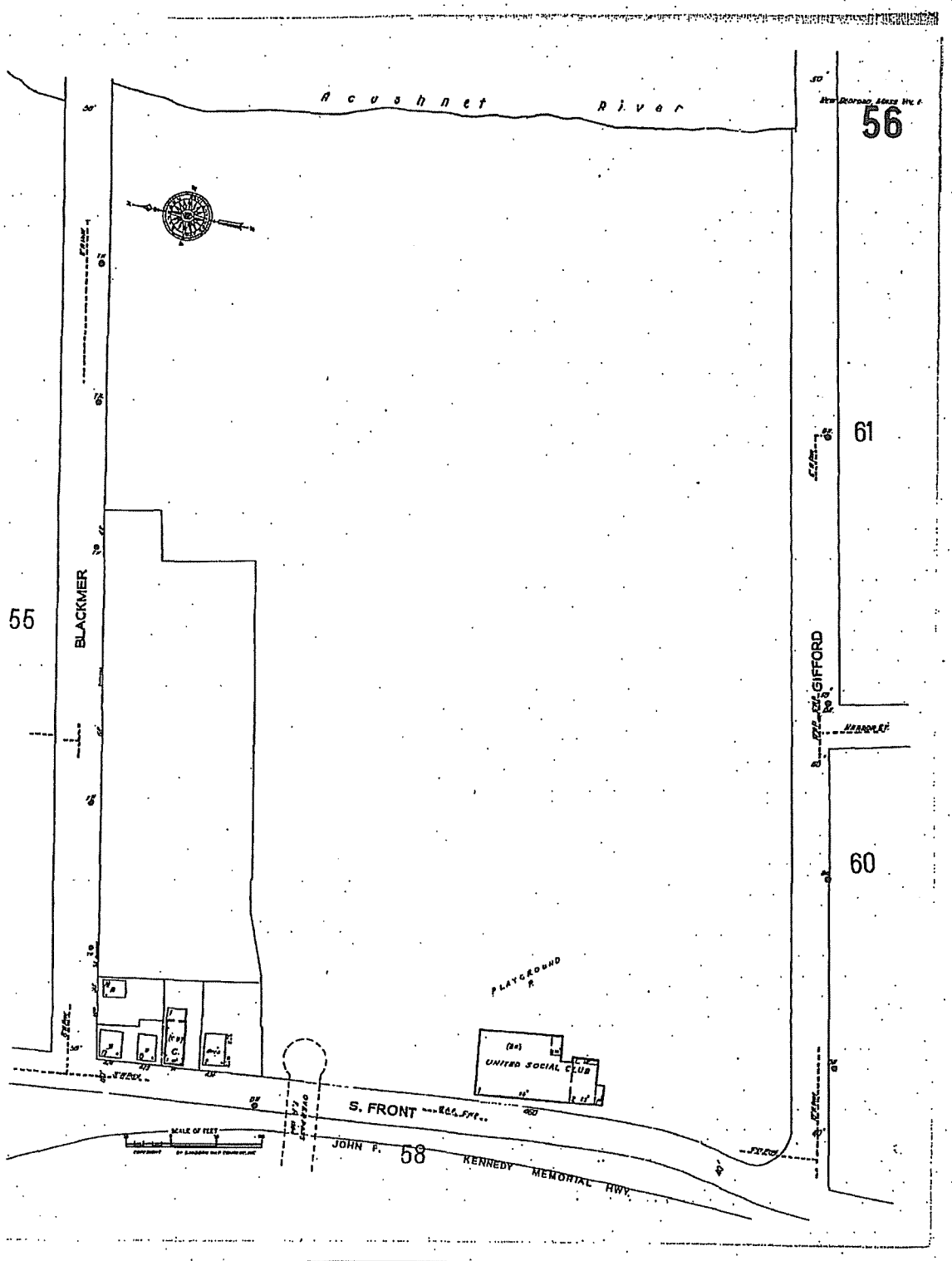

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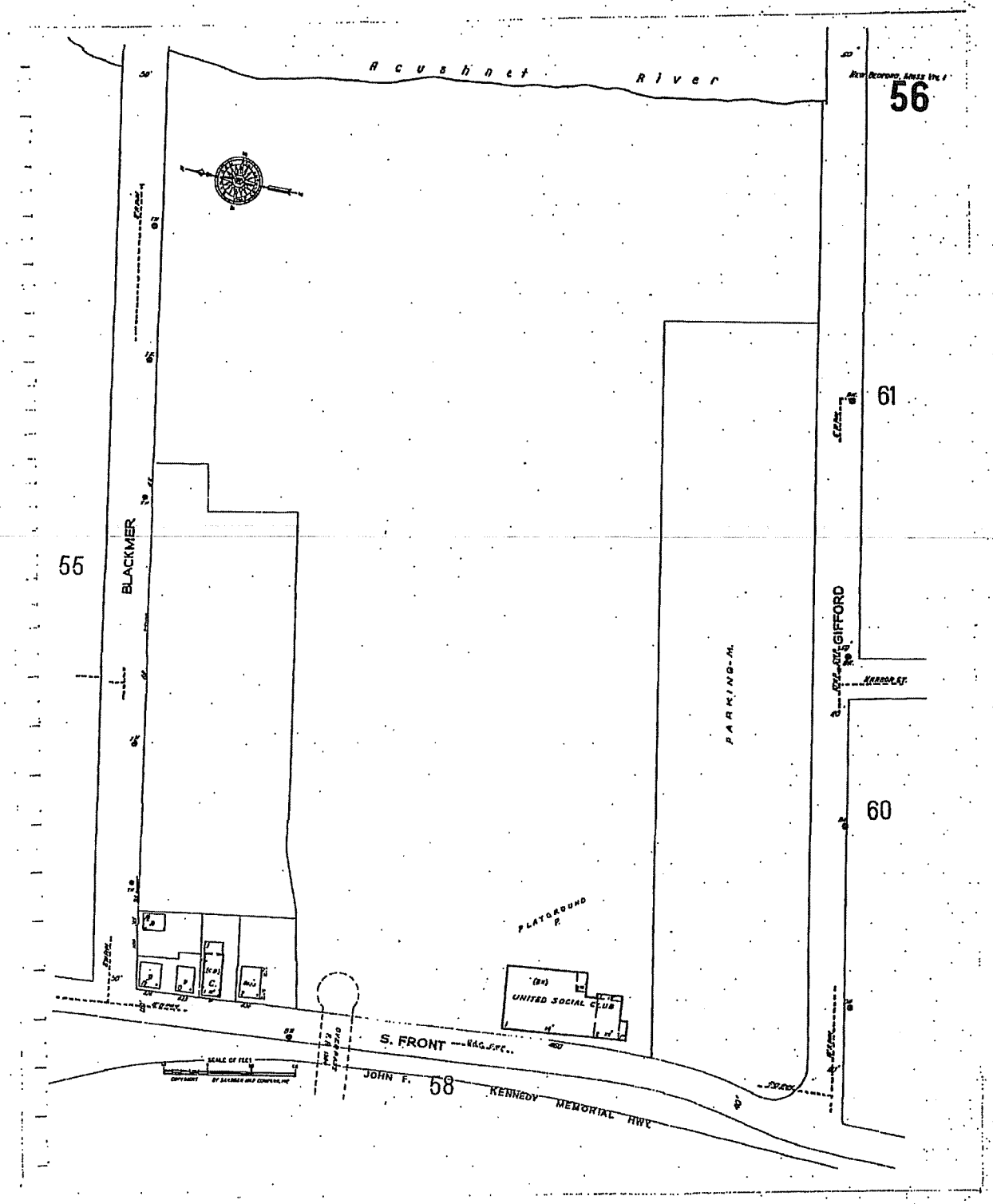

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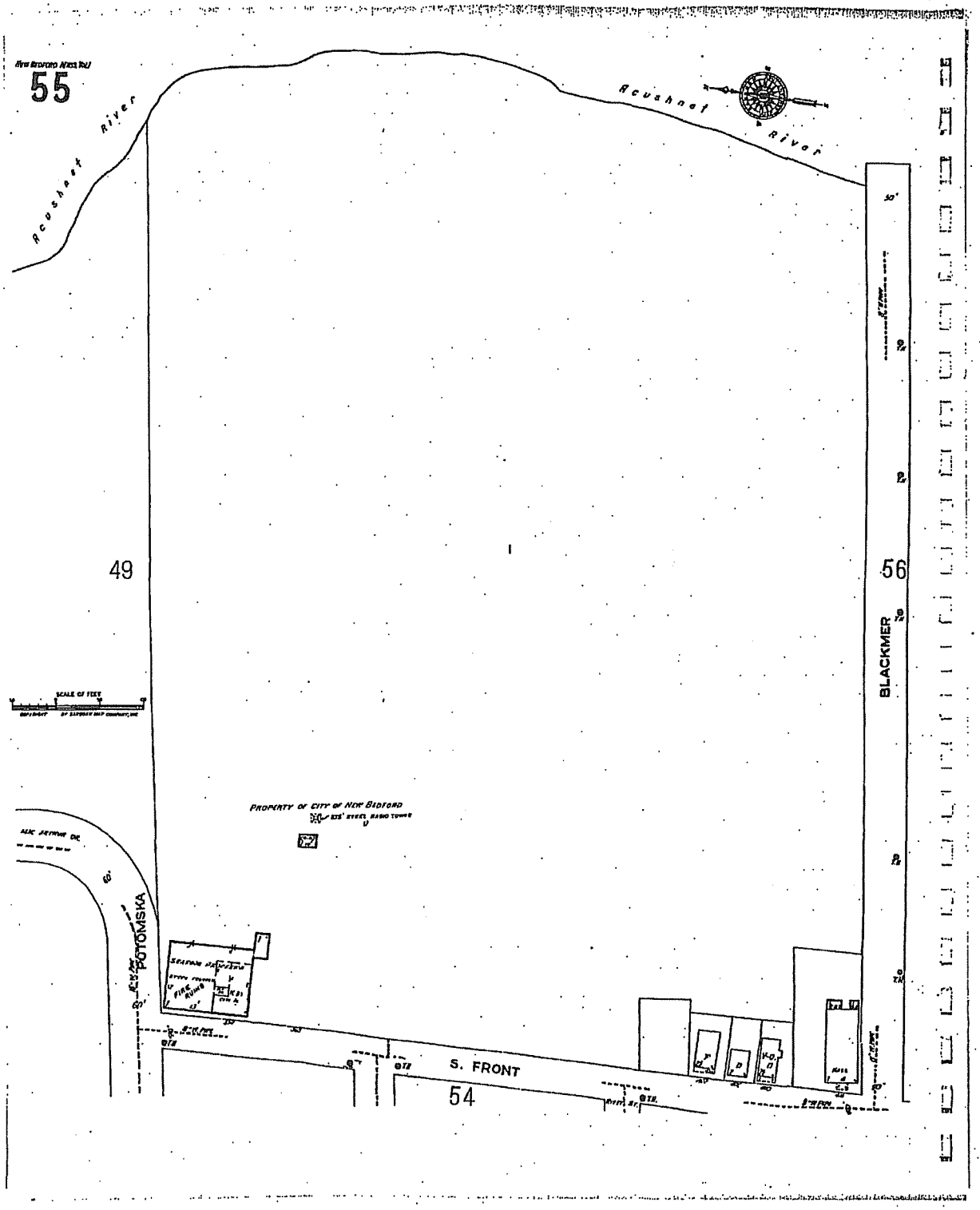

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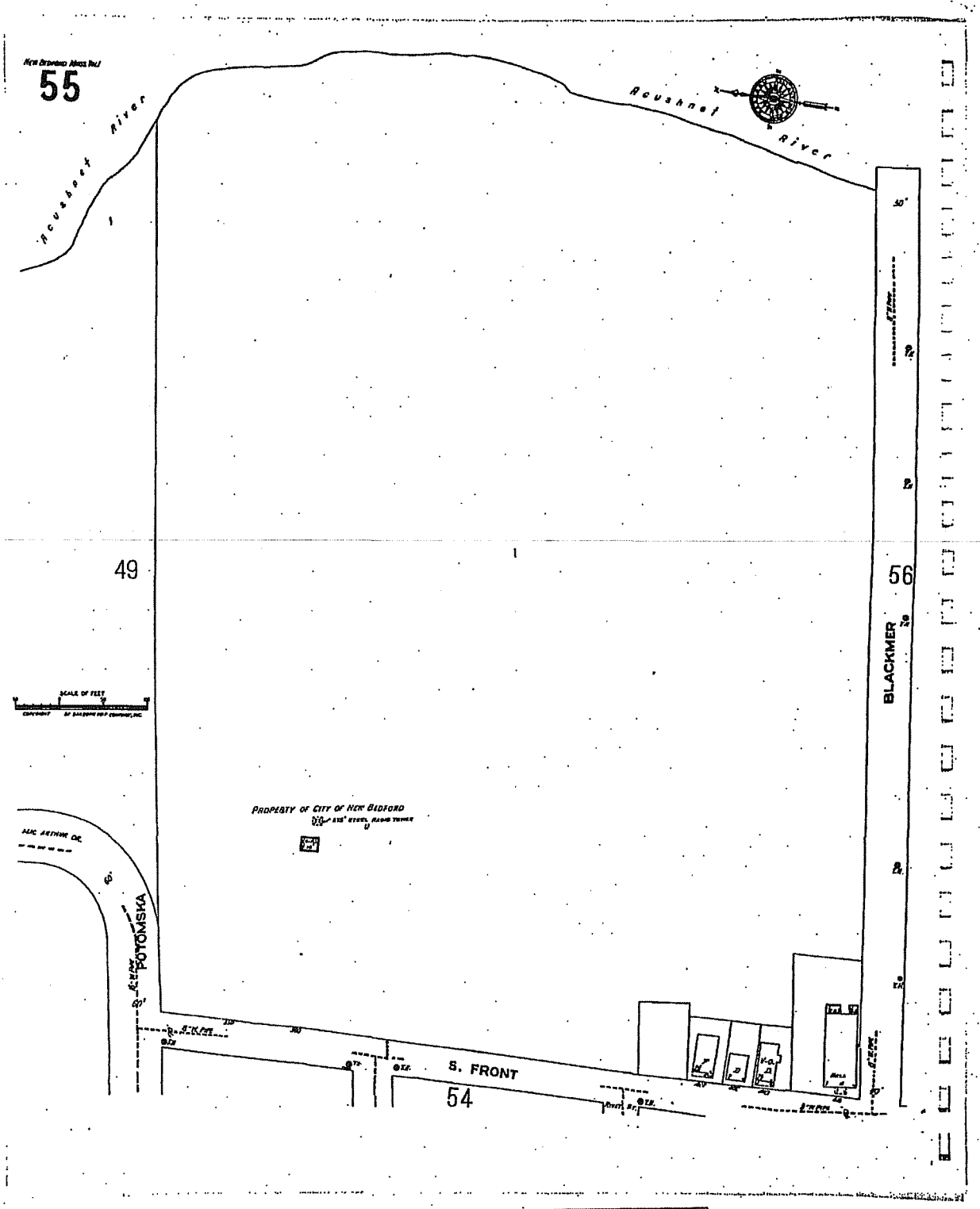

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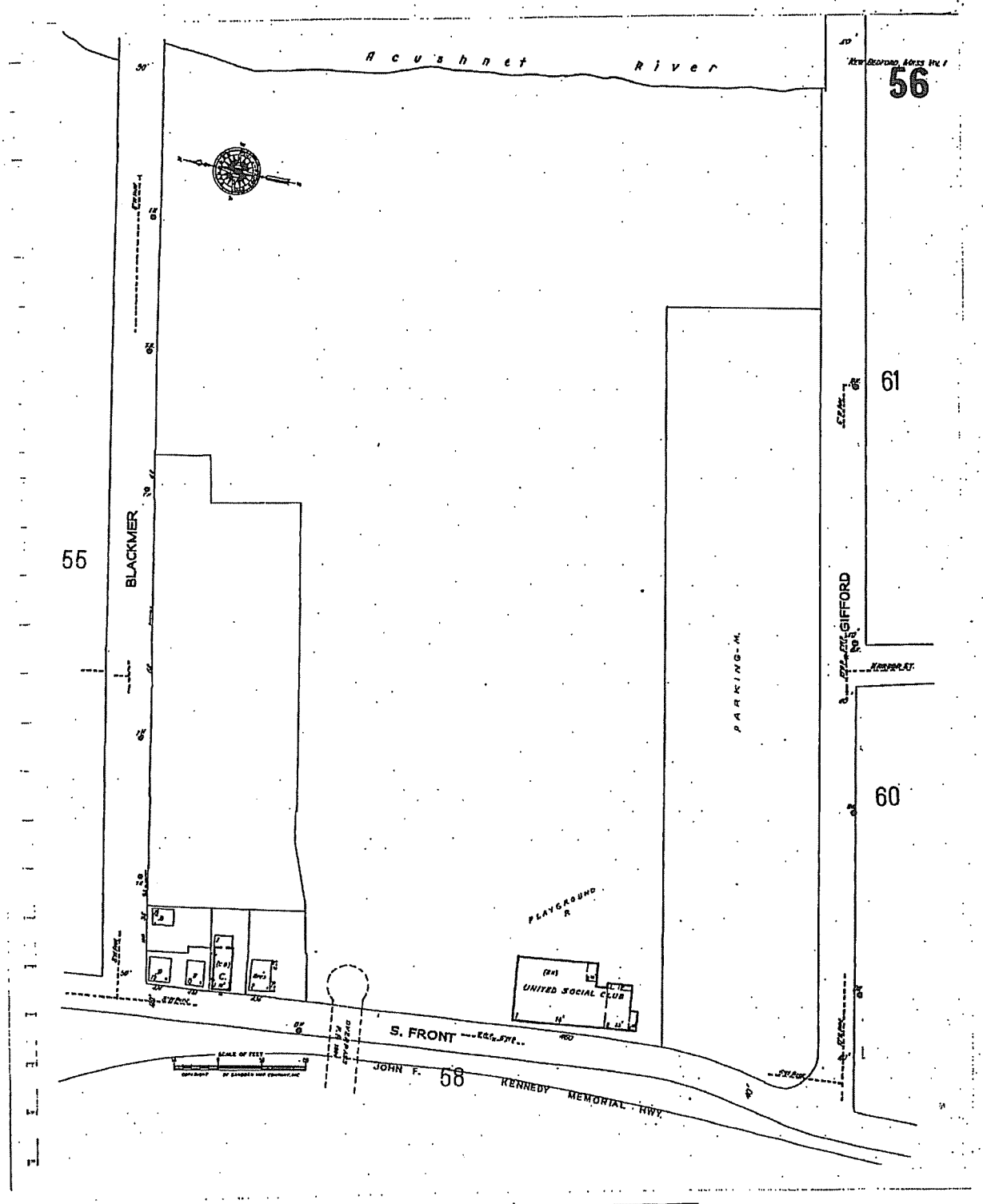

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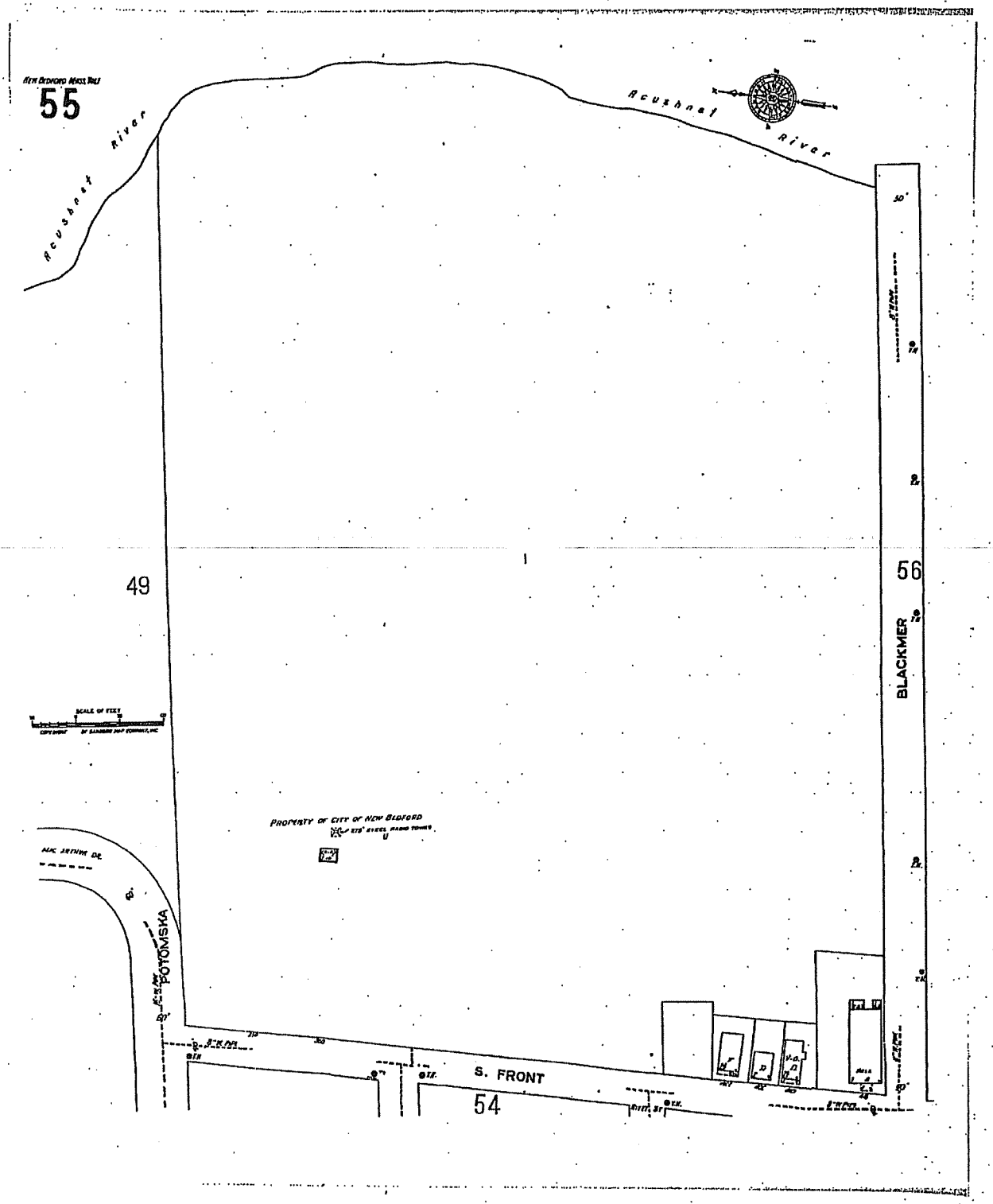

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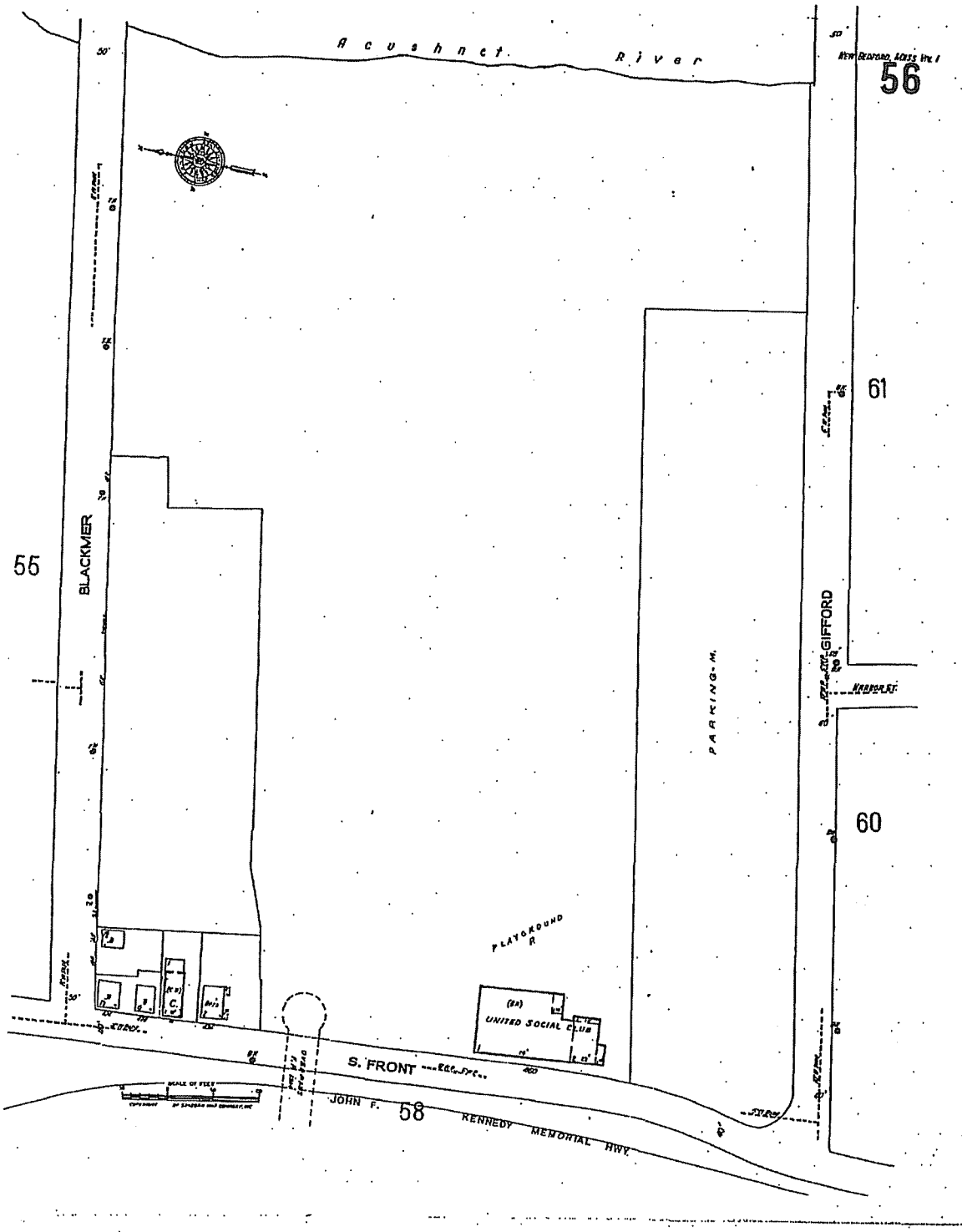

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APPENDIX C

HISTORICAL TOPOGRAPHIC MAPS

Acushnet
Quarries
Brooklawn Park
Ashley Sch
Normandin Jr High Sch
Swift Sch
Library
Substation
Burt Sch
Lincoln Sch
Sacred Heart Cem
Cedrwell Sch
St Thomas Sch
Phillips Ave Sch
Playground
North Fairhaven
Woodside Cem
Livesey Park
Oxford
Sacred Heart Academy
Peckham West Cem
Sacred Heart Cem
Clifford Sch
INTERCHANGE
NEW BEDFORD
Riverside Cem
Radio Towers (WBSM)
Anthony Sch
Elizabeth Hastings Jr High Sch
Drive-in Theater
Sacred Heart Ch
Tempton Sch
Parker St Sch
High Sch
Doane Memorial Field
Vocational High Sch
Popes Island
Radio Tower (WBSM)
Tripp Sch
Cushman Park
Marine Park
Fish Island
Crow Island
Radio Towers (WNBH)
Fairhaven
Orphanage
Cook Sch
Fire Sta
Playground
House of Correction
Hathaway Sch
State Pier
NEW BEDFORD HARBOR
Playgrounds
Community Center
Hospital
St Mary's Sch
Palmer Island
FT PHOENIX BEACH
Harbor View
BUZ
SEAWALL
ACUSHNET RIVER
(NEW BEDFORD SOUTH)
6867 III SW
FT. RODMAN 2.2 MI.
55'
INTERIOR—GEOLOGICAL

6867 III NW
(NEW BEDFORD NORTH)
TAUNTON 22 MI.
2 MI. TO INT. 195
338
340
55'
341
342
RURAL CEMETERY
NEW BEDFORD
Palmer Island
Floodgate
Lights
FT PHOENIX BEACH STATE RESERVATION
Congdon Sch
St James Ch
Donahy Sch
Playground
Ashley Park
Dunbar Sch
De Valle Sch
St Hedwig Sch
Library
SEAWALL
Floodgate
Bliss Corner
Redgate Corner
De Mello Sch
Jones Park
Solemar Hospital
Library
Cushman Sch
SOUTH DARTMOUTH
Moshers Pt
CLARKS COVE
Hannegan Sch
Roosevelt Jr High Sch
Taylor Sch
Havelwood Park
Athletic fields
Hospital
FORT RODMAN MILITARY RESERVATION
Clarks Pt
Sewage Disposal
Butler Flats Lighthouse
CORPORATE BOUNDARY
Ricketsons Pt
Padanaram Breakwater
Light
BAY
NORTH AVE

6867 III NW
(NEW BEDFORD NORTH)
TO U.S. 6
1 MI. TO U.S. 6
338
340
55'
341
342
Palmer Island
Fort Phoenix Park
Radio Facility (WABN)
RURAL CEMETERY
NEW BEDFORD
Congdon Sch
Donaghy Sch
Playground
Dunbar Sch
Ashley Park
De Valle Sch
St Hedwig Sch
Library
St Anne Sch
Hannegan Sch
Roosevelt Junior High Sch
Taylor Sch
Hazelwood Park
Bliss Corner
Redgate Corner
Jones Park
De Mello Sch
Solemar Hospital
Cushman Sch
CLARK COVE
Playground
Sewage Disposal
City Infirmary
Hospital
FORT RODMAN MILITARY RESERVATION
Clark Pt
Butler Fla Lighthous
SOUTH DARTMOUTH
Padanaram Sch
St Marys Ch
Cem
Moshers Pt
BAY
Ricketsons Pt
Padanaram Breakwater
Light
CORPORATE
FAIR

M&E
AQUA ALLIANCE

J-020655-0002-006

January 20, 2000

Mr. Jim Byrne
Brownfields Team
Work Assignment Manager
U.S. EPA Region I
1 Congress Street
Suite 1100 (HIO)
Boston, Massachusetts 02114-2023

Subject: **Contract No. 68-W6-0042**
BTSA - Standard Times Field Site
Work Assignment No. 043-SISI-01ZZ
Draft BTSA Report

Dear Mr. Byrne:

Please find enclosed one copy of the draft report for the Standard Times Field site. The report has been prepared in accordance with the Final Field Task Work Plan (September 1999) for the site.

Very truly yours,

METCALF & EDDY, INC.

Barbara Wyskowski
M&E Work Assignment Manager

enclosure

cc: D. King, EPA (cover letter only)
S. Alphonse, City of New Bedford
J. Hobil, MADEP
C. Hagger, M&E (cover letter only)
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RAC WA#043-SISI-01ZZ (Standard Times Field -- Task 0002) File

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J-020655-0002-006

January 20, 2000

Mr. Jim Byrne
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Subject: Contract No. 68-W6-0042
BTSA - Standard Times Field Site
Work Assignment No. 043-SISI-01ZZ
Draft BTSA Report

Dear Mr. Byrne:

Please find enclosed one copy of the draft report for the Standard Times Field site. The report has been prepared in accordance with the Final Field Task Work Plan (September 1999) for the site.

Very truly yours,

METCALF & EDDY, INC.

Barbara Wyskowski
M&E Work Assignment Manager

enclosure

cc: D. King, EPA (cover letter only)
S. Alphonse, City of New Bedford
J. Hobil, MADEP
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EPA CONTRACT NO. 68-W6-0042
EPA WORK ASSIGNMENT NO. 043-SISI-01ZZ

EPA Project Officer: Diana King
EPA Work Assignment Manager: Jim Byrne

BROWNFIELDS TARGETED SITE ASSESSMENT
DRAFT REPORT

STANDARD TIMES FIELD
NEW BEDFORD, MASSACHUSETTS

January 2000

Prepared By:

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Wakefield, Massachusetts

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1.0 INTRODUCTION

The Brownfields Targeted Site Assessment (BTSA) report for the property known as Standard Times Field has been prepared in accordance with Metcalf & Eddy's (M&E's) EPA-approved Final Field Task Work Plan (FTWP; 1999c) for conducting BTSAs under EPA's Response Action Contract (RAC). The Standard Times Field property is located off South Front Street in New Bedford, Massachusetts (Figure 1-1).

The overall objectives of the BTSA for the Standard Times Field property are to:

1) assess the types and general extent of contamination on the site
2) evaluate the risks posed by the contamination, based on future use/redevelopment options
3) develop potential alternatives for cleanup based on future use/redevelopment options
4) estimate the costs of implementing the cleanup alternatives

The draft report presents information and conclusions in support of Objectives 1 and 2. A technical memorandum will be prepared to address Objectives 3 and 4. The final BTSA report will combine the draft BTSA report and the Remedial Alternatives/Estimated Costs Technical Memorandum.

The BTSA for the Standard Times Field property was initiated by obtaining and reviewing all reasonably available information that was relevant to an environmental assessment of the site including the site's ownership history, use and operations history, and regulatory history. In addition, pertinent information on surrounding or nearby properties was reviewed. The primary sources of information included the city of New Bedford's BTSA application, record searches/file reviews of the city's municipal offices and the Massachusetts Department of Environmental Protection (MADEP) Lakeville office, an environmental database search of federal and state regulatory agencies, historical topographic maps and Sanborn Fire Insurance maps, and several environmental reports on the site and nearby properties. The information was summarized in a Background Summary Memorandum (M&E, 1999a) prepared for the site and is presented in this report where appropriate.

The information provided herein is designed to meet the objectives of the BTSA developed for the site (Section 2.7). No portion of the site is currently listed as a waste site under the Massachusetts Contingency Plan (MCP; 310 CMR 40.0000) pursuant to the Massachusetts Oil and Hazardous Material Release Prevention and Response Act (M.G.L. Chapter 21E); however, the information presented in the report incorporates many of the requirements of a Phase I report as defined under 310 CMR 40.0483.

2.0 SITE INFORMATION AND OBJECTIVES

Information presented in this section is largely summarized from the Background Summary Memorandum (M&E, 1999a) prepared for the site. Field observations made by M&E during site

visits and field work as well as information obtained through conversations with city personnel are also included.

2.1 Location

The Standard Times Field property is located in the city of New Bedford (Figure 2-1), off South Front Street, and is bordered by parking areas parallel to Gifford Street to the south, and the Acushnet River to the east. New Bedford Radio, Inc. and various commercial properties border the site to the north. Residential and commercial properties along South Front Street border the site along the western boundary. The site is approximately 25.5 acres in size. The site coordinates are 41°37'16.0"11 latitude and 70°55'3.7" longitude.

2.2 Site Description and Use

The site is currently owned by the city of New Bedford. It is primarily vacant, and there are no current formal operations or uses conducted on the property. The city is currently overseeing the development of the property into a 10-lot subdivision intended for future use as a marine-related industrial area.

Former use of the site included mill work during a period between the 1880s to 1930s. From the 1930s to 1940s, the site was owned by the city of New Bedford. During this period there are no records of use; however, the mill buildings had been demolished, likely sometime between 1923 and 1935. The site was owned by E. Anthony & Sons, Inc. from 1946 to 1966. The only record of use during that time was by the U.S. Army Corps of Engineers in 1963, who used the site as a staging area for the construction of the hurricane barrier in the Acushnet River. There were several owners from the late 1960s up to 1998, when the city of New Bedford became the current owner. There are no records of site use during the period prior to city acquisition.

2.3 Site Features and Utilities

Site features that are relevant to the BTSA are shown in Figure 2-1. Historical Sanborn Fire Insurance maps dated 1888 through 1924 indicate mill structures and associated uses at the site. Of particular interest, these older maps show a "gas holder" and an associated building (that may have been part of a coal gasification plant) in the northeast corner of the site, a transformer in the south section, a coal bin along the northern site boundary, and a 150,000-gallon buried fuel tank in the southeast corner of the site (in the vicinity of the current baseball field). There are no records of the buried tank being removed or abandoned. The Sanborn map for 1950 indicates that the numerous mill buildings and coal bin that occupied most of the site had been removed by that time, although no records of the removal of the building structures were located. Since the 1950s, Sanborn maps and city records indicate that there have not been any permanent structures on the site and that the property has remained undeveloped open area.

As part of the subdivision development, the city is in the process of extending Blackmer Street towards the river and constructing a smaller cul-de-sac road (Silva Street) off the Blackmer Street extension. The city is installing utilities, including new storm water and sewage lines and underground electrical service, along these roads. Existing storm water and sewer lines cross the center of the site from west to east, extending from Blackmer Street towards the Acushnet River. According to historical information, another storm water line extends along the northern boundary of the site.

Early mill plans (New Bedford, 2000) indicate that there were a number of saltwater wells on the site; however, no physical evidence of the wells was mentioned in previous reports or was observed by M&E.

2.4 Current Site Conditions

As stated in Section 2.2, the vacant site has been an undeveloped open area since the 1930s. The current site conditions described in this section are based on observations made by M&E personnel during the May 26, 1999 site visit and field work in the fall of 1999. Through the spring and early fall of 1999, prior to the start of on-site construction, the central and southern portions of the site were relatively flat. The central section of the site is an area of compacted sand and gravel, used as a staging area for equipment and materials by the city. Unpaved roads provided vehicular access to the center of the site and to other areas of the site. The baseball field in the southwest section of the site appears to be regularly maintained.

The south-southeastern section of the site was characterized by tall, thick growths of grasses and shrubs. Ponded water and thick wetland vegetation (primarily reeds) were observed in this area. At the southeastern corner, the topography rises and a dirt bike track with evidence of recent use was observed. Just to the northeast of the dirt track, there was a circular burned area approximately 15 to 20 feet in diameter with tires and empty automotive/boat fuel tanks.

A sandy beach (50- to 100-feet wide at the time of the site visit) marks the eastern site boundary along the Acushnet River. There was a drop-off between the land surface and the sandy beach, ranging from 1 foot to over 8 feet in some places.

In the northern portion of the site, the surface is very irregular and rough, with evidence of extensive alteration over the years. In this section, mounds and ditches have been created by large piles of excavated earth and large boulders. Some of the earthen mounds were intermixed with concrete, building demolition remains (brick, roofing shingles, tile), and asphalt debris along with tires, metal, and municipal rubbish. Mounds in the central north section of the site appeared to be relatively recent, while older mounds in the more northern and northeast sections of the site were overgrown with well-established wooded areas, thick scrub brush, and tall vegetation.

In the northeastern corner of the site, one small area of stressed vegetation was observed. Stained gravel, coal ash, and capacitor debris was noted in the area. In addition, an area with stressed

vegetation was noted just north of the northeast corner boundary, near the areas where the alleged gas machine and gas holder were former located.

Construction for preparation of the subdivision was on-going through the fall, when M&E conducted field work. As a result, the terrain in the central and southern portions of the site changed from conditions observed in spring and early fall 1999. Further changes in terrain are expected as work on the subdivision proceeds and the lots are sold to private owners.

The city does not currently store or allow the storage of any hazardous materials at the site. Asbestos-containing materials and lead-based paint may have been used at one time within the mill buildings. Visual observations made during the site visit noted the possible presence of these constituents in debris piles located across the site and on the ground surface.

2.5 Summary of Previous Environmental Assessments

Several limited environmental assessments have been conducted on the site. Additional details can be found in the Background Summary Memorandum (M&E, 1999a). The results of the assessments are summarized in this section. It should be noted that the boundaries defining the property for previous investigations were slightly larger than the site is currently defined.

A 21E Environmental Assessment conducted by (Kurz, 1986) consisted of a file review, site visit, and limited soil and groundwater sampling across the Standard Times Field property. The subsurface investigation included 20 test pits from which selected soil and groundwater samples were analyzed for volatile organic compounds (VOCs), PCBs, and oil and grease content. Two soil samples indicated the presence of relatively low levels of PCBs (0.8 and 1.9 ppm), and two soil samples indicated the presence of oil and grease (3,490 ppm and 7,070 ppm). The PCBs that were detected were encountered near the radio tower on the property bordering the site to the west. No VOCs were detected in grab groundwater samples collected from test pits.

An assessment was conducted near the southwest corner of the site, in the vicinity of the baseball field and basketball court (NUS, 1989). The study was limited to a records search and site observations. No samples were collected or analyzed.

In 1991 and 1993, further environmental assessments of the site were performed (GZA, 1991 and 1993). Soil and groundwater samples collected from test pits in 1991 and 1993 were analyzed for VOCs. The soil samples were also analyzed for PCBs and petroleum hydrocarbons. Two of the soil samples were collected close to the locations where PCBs were previously found by Kurz (1986). The analyses did not report PCBs in soil, but did confirm the presence of petroleum hydrocarbons (fuel oil and asphalt). During the 1993 assessment, piles of construction debris, concrete and asphalt were observed to be randomly scattered across the site. In addition, municipal rubbish dumping along roadways was observed.

2.6 Adjacent Properties

Several adjacent properties were discovered to have previous releases of oil and hazardous materials. In particular, releases of oil from leaking underground storage tanks were reported for two nearby (almost adjacent) properties: Mutual Oil Station at 56 Potomska Street and Southeast Transit Authority (STA) at 65 Potomska Street. These properties are both located near the northwest corner of the site.

The Mutual Service Station is located within approximately 600 feet of the northwest corner of the site (across South Front Street) and has operated as a fuel service station since 1968. Several underground storage tanks (USTs) have been placed and replaced on this property, including gasoline, unleaded gasoline, diesel, and kerosene tanks. In 1989, the MADEP issued a Notice of Responsibility to Mutual for the release of oil and hazardous materials (leaking gasoline UST) on the property. The presence of separate-phase product was reported in groundwater monitoring wells on the property in 1990. A groundwater treatment and soil vapor extraction remediation system was installed in 1993 and was operated into 1996. According to a Response Action Outcome (RAO) dated June 1996, data from the site indicate a trend of lower contaminant concentrations. Oil and hazardous material concentrations in the groundwater were below MCP Method 1 GW-2 levels. The RAO indicated that the site conditions met a level of No Significant Risk in accordance with the MCP. The likely flow of groundwater from this property is in a southeast direction, towards the Standard Times Field site and the Acushnet River.

The STA is located within approximately 900 feet of the northwest corner of the site. The MADEP files reported that soil contamination was observed at the STA location in 1988 during the removal of USTs (gasoline, diesel fuel, and motor oil). Sampling and analyses indicated the presence of petroleum hydrocarbons in soil and groundwater from the former tank locations. An undocumented amount of soil was removed from the property. A Notice of Responsibility was issued to STA by the MADEP in March of 1998 indicating the need to address the presence of separate phase product in the groundwater. Approximately 1,000 tons of additional contaminated soil was removed from the STA location in 1998.

2.7 Site-Specific Objectives

The primary objectives and technical approach for the BTSA at Standard Times Field were developed based on review of available site and background information, along with observations and information gathered during the May 26, 1999 site visit and in discussions with EPA and the city and MADEP Points-of-Contact (POCs) for the site. The purpose of the BTSA was to conduct a site investigation to determine the nature of contamination at the site, and to a limited degree, evaluate the extent of contamination. In general, the site investigation was focused towards known or suspected contamination source areas and areas where the potential exists for the greatest risks to be posed based on the proposed future use/redevelopment of the site (Section 2.2). Field and analytical data were collected to provide limited information with respect to hydrogeologic conditions, to supplement existing site information from previous environmental assessments, and

to support characterization of risk and development of cleanup alternatives and cost estimates. At the request of the city, risks have also been assessed for soil by subdivision lot. However, delineation of the full extent of contamination, or a detailed risk assessment and alternatives evaluation, were not within the scope of work that was conducted. The technical approach, which is detailed in the Final FTWP (M&E, 1999c) developed for the site, was conducted in coordination with MCP guidance where feasible.

3.0 SITE INVESTIGATION

This section summarizes the field investigation that was conducted at the site by M&E in the fall of 1999 and discusses the findings of the investigation. Information from previous environmental studies on the site is incorporated with the findings of this site investigation to provide a more comprehensive understanding of conditions

The primary focus of the field investigation was to collect current information about the environmental condition of the site for use by the city of New Bedford. The field activities were performed in accordance with the M&E FTWP and Generic-BTSA Sampling and Analysis Plan (SAP) for the site (1999c and 1999a, respectively). The field investigation was focused on potential contamination source areas and areas that may pose the greatest risk. The investigations that were conducted, and the specific focus if applicable, were:

- a geophysical survey to locate the possible buried tank in the southwest corner of the site
- test pit excavations to confirm the presence and location of the buried tank (based on geophysical survey data) and to ascertain the approximate location and possible configuration of the former coal bin (near the northern site perimeter, south of the New Bedford Radio Station Tower)
- installation and sampling of four temporary shallow overburden wells (located hydrogeologically downgradient or in potential source areas and screened across the groundwater table)
- surface soil sampling at 11 locations (1 to 2 locations per subdivision lot)

Figure 3-1 presents the field investigation locations. An M&E representative was onsite during all field activities and oversaw subcontractors performing designated field work. Specific details of the different field activities are discussed in the appropriate sections that follow.

Prior to initiating any investigation work, the city POC identified boundary markers for M&E and assisted M&E in locating areas for test pits and surface soil sampling. Lot boundaries were previously marked by city engineers for the on-going construction work. A grading/utility plan for the site (SITEC, 1998) and GPS equipment were used to approximate the boundary locations

not already marked. A backhoe operated by a city employee was used to perform minor clearing and grading to improve access to several areas of investigation.

3.1 Geophysical Survey and Test Pit Excavations

A geophysical survey was conducted in the southwest corner of the site (baseball field in Lot 9) where the 150,000-gallon UST was suspected to be located (Figure 3-1). The survey was conducted on September 28, 1999 by Hager GeoScience, Inc. of Waltham, Massachusetts. A combination of electromagnetic (EM) terrain conductivity and ground penetrating radar (GPR) techniques were used. EM terrain conductivity was used to survey the entire investigation area of approximately 180 by 240 feet. GPR was performed in areas of EM anomalies. The instrumentation and procedures used are detailed in the geophysical report presented in Appendix A.

Preliminary results of the geophysical survey indicated an anomaly that was the possible UST. The geophysical data indicated that the structure consists of concrete with rebar. The final results of the survey are provided in the geophysical report (Appendix A).

On September 29, 1999, the targeted area was excavated using a backhoe operated by the city of New Bedford. Two large test pits, designated Tank 1 and Tank 2, were excavated. The excavation uncovered a cylindrical concrete structure that fits the physical description of the suspected buried tank (New Bedford, 2000). The surface of the concrete structure was located at 1 to 2 feet below grade. The excavation revealed that the structure is at least 6 feet in height. The presence of groundwater at 6 feet below grade interfered with additional excavation to determine the total height of the structure. A hole was discovered at the center of the structure. This hole may have been a former cover or manhole as indicated by the round shape and a partial metal ring. Rebar was evident around this hole. Soil within the hole had a heavy fuel odor, and there was visual evidence of a tar-like substance. A sample of the soil/tar-like substance from within the hole was collected. Laboratory results confirmed the presence of petroleum hydrocarbons. PCBs were not detected in the sample. The groundwater adjacent to the western wall of the structure appeared to have a slight sheen on its surface, although no product was detected using field methods. Subsequent to excavation activities, it was determined that the tank was located just outside of the site boundaries.

A second area was excavated along the northern perimeter of the site to try to locate the former coal bin (Figure 3-1). Two shallow test pits, TP-01 and TP-02, were excavated with a backhoe operated by a city employee on September 27, 1999. The test pits were excavated to the top of groundwater at approximately 6 feet below grade. Physical evidence of coal was observed in the two test pits, from 1- to 2-feet below grade. At this depth, a dark, dry, dense peat-like layer with coal pieces was observed. Concrete rubble was also noted at this depth in TP-02. The top 1 foot of TP-01 and TP-02 consisted of sand intermixed with vegetation, primarily roots. The limits of the coal layer were estimated to be an area of about 100-by-50 feet, adjacent to the property line at Lot 2, south of the radio tower.

Two shallow test pits, TP-03 and TP-04, were excavated in a third area located at the northeastern section of the site, within the limits of the area with stressed vegetation. The upper layers of both test pits included sandy materials from 0 to 2 feet. From 2 to 4 feet, both test pits contained sandy material with debris, which included roofing material, brick, and wood fragments. Some capacitor-like materials were also observed in TP-04. A sulfur-like odor was also noted during excavation of TP-04. Wood planks were observed at the bottom of TP-03, indicating that perhaps a pier or support may have existed in this area at one time.

Upon completion of all excavation activities, the test pits were filled in and leveled to grade. Excavation logs are located in Appendix B.

3.2 Surface Soil Sampling

Eleven surface soil samples were collected with the aid of a city-operated backhoe on September 28, 1999. One sample was collected per lot, with the exception of Lots 3 and 4, where two samples were collected. The surface soil samples are identified with the designation "SS" on Figure 3-1. For the lots where more than one sample was collected, the designation "A" and "B" were added after the location number.

Generally, a sample was collected where visual observations or field screening suggested that a potential contaminant source may exist (Table 3-1). Prior to sample collection, the excavation hole and excavated soil were screened with a photoionization detector (PID) for organic vapors. Headspace screening methods were used for the excavated soil. With the exception of the volatile petroleum hydrocarbon (VPH) fraction, the samples were composited from soil removed directly from the walls of the excavation hole, 0 to 3 feet below grade. The VPH fraction was collected by twisting a pre-weighed syringe directly into the soil, then discharging the contents into a vial pre-filled with methanol. Following collection of the VPH fraction, the remaining sample containers were filled with composited soil. The samples were immediately placed in a cooler with ice, after which the samples were recorded onto a chain-of-custody (CoC) form and submitted for laboratory analysis of the parameters listed in Table 3-2. Surface soil analytical data are presented and discussed in Section 4.4.

In addition, three samples of debris were collected for asbestos analysis in the vicinity of bare soil/stressed vegetation (Figure 3-1), near well location GW-01 and surface soil sample SS-04B on Lot 3. One sample of roofing tar material was collected from a debris pile (comprised mostly of roofing materials and soil). One sample of a transite-type material and one sample of a tile-like material were collected from the ground surface. The transite-type material tested positive for asbestos materials.

3.3 Temporary Well Installation, Monitoring, and Sampling

Four temporary shallow overburden wells were installed and developed on September 29, 1999. The wells are identified with the designation "GW" on Figure 3-1. The wells were drilled and

installed by GeoTek Engineering, Inc. using an Earth Probe 2000 direct-push rig. The holes for the well were advanced with a 1-inch-OD steel rod and point. Once at the desired depth, generally determined by refusal, the rod was removed. Soil was not collected from the resulting borehole for stratigraphy identification or chemical analysis. Table 3-3 summarizes the rationale for location placement of each of the wells.

A 1-inch-OD schedule 40 PVC pipe with continuous-slotted screen (0.010 inch), capped at the bottom end, was carefully lowered into the borehole. The PVC well was gently tapped to the desired depth, cut off level to grade, and capped. A stainless steel flush-mounted lock box was installed over the top of the well for security. Installation details are shown on well installation logs located in Appendix C. It should be noted that GW-01 and GW-04 were installed further from their proposed locations than expected. In both cases, this occurred because refusal was encountered at very shallow depths (2 to 4 feet), despite repeated attempts. As a result, GW-01 was located further southwest and GW-04 was located further east than originally proposed.

Following installation of all four wells, the wells were developed by M&E. Development was accomplished by slowly removing groundwater using low-flow purging methods and recording field parameters (i.e., pH, specific conductance, dissolved oxygen, oxidation-reduction potential, temperature, and turbidity). Only one well volume was removed from two of the wells (GW-01 and GW-04) because of very low recharge rates. Less than one well volume was removed from GW-03.

Groundwater levels were measured and the wells were sampled by M&E the day following installation, September 30, 1999. Groundwater level measurements were taken prior to purging and sampling activities. Measurements were taken from a notch at the top of the well. Groundwater elevations were calculated using survey data and are presented in Table 3-4.

The wells were sampled with peristaltic pumps and dedicated tubing using low-flow sampling procedures. Because of low recharge, the intake end of the tubing was positioned near the bottom of the well. Each well was purged at a slow rate, with regular monitoring of drawdown of the water table and regulation of the flow rate. During purging, the water passed through a YSI Model 610-DM flow-through cell for continuous measurement of pH, conductivity, dissolved oxygen (DO), oxidation-reduction potential (Eh), and temperature. Turbidity measurements were taken at regular intervals using a turbidimeter. Minimal purging prior to sampling occurred for most of the wells because of poor recharge. Field parameters were measured again upon completion of sample collection.

Groundwater samples were collected into sample containers directly from the outflow port of the tubing. During sample collection, 40-ml vials used for VPH analysis were filled first and checked to insure that no air bubbles were present. Following collection of the VPH fraction, the remaining sample containers were filled. Sample volume for metals were field filtered (0.45 μm) at GW-01, GW-02, and GW-04 because turbidities remained greater than 25 NTU after purging. Each sample container was labeled, preserved, and placed in a cooler with ice, after which the

samples were recorded onto a chain-of-custody (CoC) form and submitted for laboratory analysis of the parameters listed in Table 3-2. Upon completion of sampling activities, the wells were abandoned in-place (filled with bentonite).

Upon completion of the sampling effort (and abandonment of the temporary wells), it was realized that two of the wells (GW-02 and GW-04) required re-installation and re-sampling for organic parameters. Re-installation of these wells was completed on November 1, 1999 in the same manner as the initial installation. The re-installed wells are identified with the designation "RE" after the well number. As a result of on-going construction activities at the site, the areas in the vicinity of the original well locations had undergone changes. Where level ground had been, construction materials (e.g., culverts, large concrete drains) and piles of excavated soil and asphalt were now located. The re-installed wells were situated as close to their original locations as possible. On November 2, 1999, the re-installed wells were developed, sampled, and abandoned in-place following the same procedures as the original wells. During the sampling of well GW-02RE, a thin, petroleum-like sheen was detected on the groundwater; however, headspace readings for organic vapors revealed no measurements above background.

Well sampling sheets for each of the wells are located in Appendix D. Groundwater analytical data are presented and discussed in Section 4.4.

3.4 Survey for Locations and Elevations

M&E used GPS field equipment to record relative locations of the test pits, surface soil samples, temporary wells, and additional site features. The positions were recorded on September 29 and 30, 1999 and November 2, 1999. A surveying level and rod were used by M&E to measure elevations at the top of the temporary wells relative to a local datum. The GPS locations were mapped on the Land Plan provided by the SITEC (1998), which serves the base map for all of the site figures in the report.

3.5 Analytical Program

Table 3-5 summarizes the samples submitted for laboratory analysis during the field investigation. Quality control (QC) samples were also taken and submitted for laboratory analysis to monitor and evaluate laboratory and sampling performance. The field QC samples collected, which are also listed on Table 3-5, included trip blanks, field duplicates, matrix spike/matrix spike duplicate samples, and performance evaluation (PE) samples.

Samples were analyzed using a combination of EPA's Contract Laboratory Program (CLP) for Routine Analytical Services (RAS) and directly-subcontracted laboratories. The methodologies selected for analysis of samples by the directly-subcontracted laboratory were consistent with standard EPA or MADEP methods. Samples collected for analysis of organic parameters using RAS methods were submitted to Southwest Laboratory of Broken Arrow, Oklahoma, and samples being analyzed for inorganic parameters using RAS methods were submitted to Sentinel, Inc. of

Huntsville, Alabama. With the exception of the analysis for asbestos containing material (ACM), M&E directly subcontracted the Woods Hole Group of Raynham, Massachusetts to perform all of the remaining analyses. The ACM analysis was performed by Proscience Analytical Services of Woburn, Massachusetts.

M&E conducted a limited QC review/validation of analytical laboratory data in accordance with the EPA-approved FTWP (M&E, 1999c). The review/validation provides an overview of the laboratory and field QC data by identifying potential QC issues and assessing common QC criteria that might affect reporting and usability of the environmental data as well as ensuring that the laboratory has met minimum data acceptance criteria established by M&E. Although the limited review/validation was based on EPA Region I Tier guidelines (U.S. EPA, 1996), it was more limited in scope. The review/validation performed by M&E consisted of completing Tier II-like forms only for applicable criteria parameters, assessing data usability, and summarizing the results in abbreviated Tier II-like memoranda. The validation memoranda are included in Appendix E.

Lmited review of the results from the asbestos analysis and the UST soil sample was performed because these data were collected for identification purposes only, and not used for risk characterization. The review memoranda are included in Appendix E.

Data found to be suspect during the validation/review process were qualified. Laboratory data forms were marked up to indicate any validation qualifications that supersede laboratory qualifiers and are included in the data validation memoranda (Appendix E). The final validation qualifiers are consistent with EPA validation guidelines. Positive and nondetect results that were shown to have serious QC problems were rejected and flagged with an "R." Positive results that were shown to exhibit poor precision or accuracy were qualified as approximated and flagged with a "J." Nondetect results that were flagged with a "UJ" if the associated QC data did not meet applicable criteria. Nonqualified positive results were found to meet all validation criteria. Nondetect results that were found to meet the validation criteria were shown as the quantitative limit or detection limit followed by a "U" qualifier.

Surface soil and groundwater analytical data are presented and discussed in Section 4.4. Approximated and nonqualified results were used in further evaluations, but the qualified data were first reviewed to establish their usability. Rejected values were considered to be unusable results for subsequent evaluations. Overall, less than 3% of all the analytical data generated in support of this report were rejected as a result of validation actions.

4.0 SUMMARY OF FINDINGS

The findings from the BTSA conducted by M&E for the site, as well as pertinent information from previous studies and sources, are presented and discussed in this section.

4.1 General Topography

The topography of the site is relatively flat with a mild east-southeast slope towards the Acushnet River. Surface water drainage appears to follow the natural topography of the site and flows towards the river, although ponding of water is evident, particularly in wetland areas (Figure 2-1) and areas with substantial mounding and depressions (Section 2.4).

4.2 Subsurface Geologic Conditions and Features

As previously described, the results of previous environmental studies at the site (Kurz, 1986 and GZA, 1991 and 1993) indicate that the soil sequence across much of the site varies. Some of the test pit logs suggested possible fill at some locations, ranging from 2- to 8- feet in depth and overlying a layer of peat or natural deposits of sand and gravel. The fill typically consisted of sand and gravel containing brick and shingle fragments, cinders, asphalt, and concrete rubble in some areas. The peat layer, which varies in thickness from 1 to 2 feet, is underlain by natural deposits of sand and gravel or bedrock. Depths to bedrock ranged from 6 to 9.5 feet across much of the site. In the northwest corner, bedrock depths may be as shallow as 2 to 4 feet below ground surface, based on depths of refusal encountered during repeated attempts to install GW-04 further west and northwest of its final location. A similar situation was encountered during the installation of GW-01, which was originally sited closer to the northeast corner of the site perimeter.

Kurz (1986) indicated that some of the site was filled, presumably with dredged materials from the harbor, during construction in 1963 of the hurricane barrier at the end of the Acushnet River, a short distance from the southeastern corner of the site. However, records documenting the placement of fill (or dredged materials) have not been found by M&E or previous file searches (GZA, 1991). The materials in the fill appear to be more indicative of demolition debris, perhaps from the removed mill structures, than of materials dredged from the river. One exception to this is a gray plastic silt material that was logged in a test pit excavated in the southeast corner of the site, near the river. GZA (1991) suggested that this material may represent hydraulic fill.

According to EDR (1999) and Zen (1983), bedrock at the site is a Precambrian biotite gneiss of the Blackstone Group.

The only known subsurface features on the site consist of storm water, sewer, and utility lines (Section 2.3). A large cylindrical structure, appearing to be the 150,000-gallon buried tank, was located in the baseball field, but was determined to be off the site (Section 3.1). Soil in the tank suggests that it was filled and abandoned in place, but this was not confirmed. Evidence of petroleum contamination near the tank was observed in groundwater and soil from the excavation. Along the northern site perimeter (Lot 2), evidence of the coal storage was found from 1 to 2 feet below grade (Section 3.1) in the suspected location of the former coal bin. Based on the physical evidence observed during excavations, it appears that the coal may have set directly on the ground or on a temporary structure such as wooden slabs, brick floor, or a concrete slab. Other evidence

of buried wood and brick debris (1 to 3 feet) was noted in Lots 3 and 4. It is likely that this debris was part of former building walls and foundations or piers and supports.

4.3 Hydrogeologic Conditions

Groundwater depths measured during this investigation were similar to those found previously (GZA, 1991); depths ranged from 8.5 feet below the ground surface along the western side of the site to 4 feet below ground surface along the eastern side of the site. Groundwater elevations measured during this investigation (Section 3.3) indicate the direction of groundwater flow is east-southeast towards the Acushnet River and harbor. It is likely that the groundwater is tidally influenced to some degree. Review of the MADEP Bureau of Waste Site Cleanup (BWSC) site scoring map for the site (Appendix F) indicate that the site is not within an Interim Wellhead Protection Area or within 500 feet of a public water supply. The BWSC map also indicates that the site is not within 500 feet of a surface water body used as a public water supply. No known private water supply wells are within 500 feet of the site.

4.4 Nature and Extent of Contamination

The field and analytical data from the field effort conducted by M&E are presented and discussed by media in this section. Where appropriate, data from previous environmental studies at the site are discussed.

Analytical results for surface soil are summarized in Table 4-1. Analytical results for groundwater are summarized in Table 4-2. The tables present detected data by analytical fraction. For each fraction, an analyte is presented if it was detected in at least one sample for that media.

On each table the MCP reportable concentrations (RCs) applicable to the site and to the samples are presented for relative comparison to detected concentrations for detected analytes. This information is provided to evaluate whether a release of oil and/or hazardous material has occurred at the site that requires MADEP notification (MCP 40.03000) based on the reporting category that best characterizes the use of the site.

Surface Soil. Eleven surface soil samples were collected at the site (Figure 3-1). Sample collection procedures were described in Section 3.2. Tables 3-1 describes the rationale for selection of each sampling location and provides a brief description of the sample appearance. Table 3-2 summarizes the analyses conducted on each sample. Detected analytical data and reportable concentrations (RC) are shown on Table 4-1. The reporting category RCS-1 applies to surface soil samples collected on Lots 1B, 8, and 9 (SS-02, SS-09, and SS-10) because the sampled locations are within 500 feet of a residentially-zoned and used property. The reporting category RCS-2 applies to all of the other surface soil samples collected from the site since the sampled locations are not at or within 500 feet of a residential dwelling or a residentially-zoned property, school, playground, recreational area or park; or within the geographic boundaries of

a groundwater resource categorized as RCGW-1 (see groundwater results). Surface soil concentrations exceeding RCs are shown in bold on Table 4-1.

Specific VOCs and VPHs were not detected at any of the surface soil locations based on VPH analysis.

Aliphatic and aromatic hydrocarbon fractions were found at many of the surface soil locations based on EPH analysis. Concentrations for the hydrocarbon fractions were below the applicable RCs at all locations.

Numerous polycyclic aromatic hydrocarbons (PAHs) were found in all of the surface soil samples. Two sets of PAH data are shown in Table 4-1 because of overlap between two analytical methods: EPH and RAS semivolatile organic analysis. Data are reasonably comparable between the two data sets for concentrations detected above the sample-specific detection limits. Concentrations of individual PAH compounds were above the applicable RCs on five lots: Lot 2 (SS-03), Lot 3 (SS-04A and B), Lot 4 (SS-05A and B), Lot 5 (SS-06), and Lot 6 (SS-07). It should also be noted that PAHs other than those analyzed for (reported as tentatively identified compounds) were also detected in many of the samples. The highest PAH concentrations tended to occur on Lots 3 and 4. The PAHs are most likely related to historical use involving the burning and storage of coal or coal products, and possibly fill and the use and storage of asphalt on the site. Maps/plans of the site from when mill operations were active, show the presence of numerous coal piles across the site, possible operation of a coal gasification plant near the northeast corner of the site (offsite), and a former coal bin. In particular, coal ash was observed by M&E in the bare soil/stress vegetation area on Lot 3, where SS-04B was collected.

In addition to PAHs, dibenzofuran and carbazole (no RCs available) were found at most of the surface soil locations. These compounds are often found in samples with elevated PAH concentrations that result from coal sources.

At least one pesticide was detected in a surface soil sample from each lot; however, individual concentrations were below the applicable RCs in all samples. The highest concentrations tended to occur in SS-04B, Lot 3, the area with bare soil/stressed vegetation.

PCBs, Aroclor-1254, were detected on five lots: Lot 1B (SS-02), Lot 3 (SS-04B), Lot 5 (SS-06), Lot 6 (SS-07), and Lot 8 (SS-09). All of the detected PCB concentrations were below the applicable RCs. Aroclor-1254 was previously detected in soil on the site (Kurz, 1986). One of the previous locations (TP-19) was adjacent to the bike track, near Lot 6. The other previous location (TP-6) was near the central section of the site, possibly near the sample collected on Lot 5. The soil sample from Lot 3 (SS-04B) was collected from the area with bare soil/stressed vegetation where M&E observed used capacitors. The source(s) of the PCBs is not readily apparent; however, the Sanborn maps indicate that at one time, there was a transformer on the property. The source of PCBs may also be attributed to fill, if brought in from off-site areas or from the river.

All of the 23 metals analyzed for were detected in at least one of the 11 surface soil samples. The eight RCRA metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) were detected in most of the samples. Concentrations varied widely for many metals, with elevated concentrations for heavy metals on several lots. The only exceedance of the applicable metal RC was for lead on Lot 3 (SS-04A). Contaminated fill, if brought onto the site, may be a potential source of some of the metals found at elevated concentrations. Cyanide was not detected in any of the surface soil samples.

In summary, PAHs, most likely from past coal use and asphalt, are widespread in surface soil across the site. PAH concentrations exceeded applicable RCs on Lots 2 through 6. In particular, one surface soil location, SS-04B (Lot 3), exhibited elevated PAH concentrations compared to other surface soils. PCBs were detected in surface soil on three lots (1B, 3, and 6). Like PAHs, the highest PCB concentrations occurred at SS-04B on Lot 3. The only RC exceeded for metals was lead on Lot 3 (SS-04A). It should also be noted that some of the building debris found across the site may contain asbestos (Section 3.2).

Groundwater. Groundwater samples were collected from six temporary wells (for a total of four data sets) installed at the site (Figure 3-1). Sample collection procedures were described in Section 3.3. Table 3-2 summarizes the analysis conducted on each sample. Detected analytical data and reportable concentrations (RC) are shown on Table 4-2. The reporting category RCGW-2 applies to all groundwater samples collected from the site since the site is not within a current drinking water source area or a potential drinking water source area. Groundwater concentrations exceeding RCs are shown in bold on Table 4-2.

Volatile organic compounds (VOCs) were detected in groundwater at two well locations: the aliphatic hydrocarbon fraction in GW-01 and toluene in GW-03. Concentrations were below the RCGW-2 values for both analytes. It should be noted that no VOCs were detected in GW-04 even though a petroleum-like sheen was observed in the purge water during sampling (Section 3.3).

Two PAH compounds and the EPH C_{11}-C_{22} aromatic hydrocarbon fraction were detected in GW-01 and EPH C_9-C_{12} aliphatic hydrocarbon fraction were detected in GW-02. The detected concentrations were below the RCGW-2 values for these analytes.

One pesticide was detected in GW-02 (*gamma*-chlordane) and in GW-0-4 (heptachlor). Several pesticides were detected in GW-01 (*alpha*-BHC; heptachlor; 4,4'-DDE and 4,4'-DDT; and *gamma*-chlordane). Pesticides were not analyzed for in GW-03. None of the detected pesticides was above the RCGW-2 value.

The only PCB detected in groundwater was Aroclor-1254 in GW-01 at 2.6 μg/l. The detected concentration was above the RCGW-2 value of 0.3 μg/l. Generally, PCBs are not readily soluble in aqueous environments, preferring to sorb onto soil particles. Review of turbidity values directly prior to and following sample collection (2 to 6 NTU) at this well indicates that there were few solids in the sample and suggest that the detected value is a colloidal or dissolved form that

can easily migrate through groundwater. Furthermore, GW-01 is located near the bare soil/stressed vegetation area on Lot 3, the same area where used capacitors and PCBs were detected in surface soil sample SS-04B. PCBs were not analyzed for in GW-03.

A number of metals were detected in groundwater at all wells. Generally, basic cations (calcium, magnesium, sodium, and potassium) were present in the highest concentrations. The most elevated metals concentrations occurred at GW-03 (Lot 7), where the available RCGW-2 values were exceeded for antimony, cadmium, nickel, and silver. The elevated metals concentrations at GW-03 would be expected, to some degree, since groundwater from all wells except GW-03 were field filtered for metals due to elevated turbidities. This suggests that the elevated concentrations could be attributed to solids within the sample, as it was not filtered despite an elevated turbidity level (Appendix D) because of very limited sample volume due to poor recharge of this well.

The only detection of cyanide in groundwater was found in GW-04 (Lot 1B), and it exceeded the RCGW-2 value of 10 μg/l. It should be noted that the presence and certainty of this result are questionable based on review of laboratory QC criteria (Appendix E), since cyanide was reported as nondetected in a laboratory duplicate of the sample from GW-04. As a result of validation, the detected cyanide value was estimated and qualified with a "J" because of the conflicting duplicate analysis information. Therefore, the presence of this compound in the sample is uncertain.

In summary, no VOC or petroleum hydrocarbons were detected in GW-04 (Lot 1B). This suggests that petroleum-related contaminants from the fuel release at Mutual Oil Station (across the street from the northwest corner of the site) have not migrated onto the site in shallow groundwater. At each of the other three wells, there was some organic contamination found, though it was different at each well. Aliphatic hydrocarbons were detected in GW-01 (Lot 7), whereas toluene was detected at GW-03 (Lot 9). PCBs, PAHs, and several pesticides were found at GW-01 (Lot 3).

The organics detected in GW-04 (Lot 1B) and GW-01 (Lot 7) may be from an off-site source, since there are no known on-site sources of these compounds. The source of the aliphatic hydrocarbon fraction found in GW-02 (Lot 7) may be attributed to the concrete structure, assumed to be the 150,000-gallon buried tank. GW-02 is hydrogeologically downgradient of the structure, and evidence of petroleum-contamination from the structure was observed during test pit excavation (Section 3.1). Since the Lisbon Auto Repair Shop is hydrogeologically upgradient of GW-03 (Lot 9) and may have used/uses cleaning fluids, solvents, etc., that contain chemicals like toluene, the shop may be a potential source of the toluene found in GW-01 (Lot 7).

On the other hand, the organics detected in GW-01 (Lot 3) are similar to those found in the surface soil (SS-04B) collected within the same bare soil/stressed vegetation area. The physical characteristics of this area, coupled with the chemical data suggest that discrete dumping may have occurred at this location.

The only well where RCGW-2 values for metals were exceeded was GW-03 (Lot 7). The metals for which the RC values were exceeded are antimony, cadmium, nickel, and silver. Metals concentrations at GW-03 are likely more elevated compared to the three other wells that were sampled because the potential for higher solids within the sample volume analyzed. Review of laboratory data suggests that the cyanide detected in GW-04 (Lot 1B) may not be accurate.

5.0 RISK CHARACTERIZATION

The methods used to perform a preliminary risk characterization of the environmental surface soil and groundwater analytical data, as well as the findings of the preliminary risk characterization, are presented and discussed in this section.

5.1 Risk Characterization Methodology

A preliminary risk characterization of the surface soil and groundwater analytical data has been performed through a comparison of exposure point concentrations (EPCs) to applicable MCP Method 1 Standards. In order to calculate EPCs for soil and groundwater, sampling locations with sample and field duplicate results (i.e., SS-09, GW-02, and GW-04) were averaged to derive a single set of data for each sampling location. In calculating average values, one-half the sample quantitation limit was used for any non-detect results. EPCs for surface soil were derived for each subdivision lot. For lots where a single soil sample was collected, the detected contaminant concentrations were selected as the EPCs. For lots where two surface soil samples were collected (i.e., Lots 3 and 4), analytical results from the two samples were averaged, treating non-detect results as previously described, to derive EPCs. For groundwater, the analytical results for each temporary monitoring well were selected as the EPCs. Surface soil EPCs by lot, and groundwater EPCs by well, are presented on Tables 5-1 and 5-2, respectively.

Applicable Method 1 soil and groundwater standards were selected based on site-specific information regarding anticipated future site uses and known groundwater characteristics which were used to classify soil and groundwater into MCP soil and groundwater categories. The BWSC Site Scoring Map is presented in Appendix F. For groundwater, the site is not within an area that meets the criteria for classification into the GW-1 category (i.e., a current or future source of drinking water). However, since average annual depth to groundwater at the site is less than 15 feet below ground surface, structures will likely be built on the land above the groundwater, and groundwater likely discharges to a surface water receiving body (i.e., the Acushnet River). Therefore, the GW-2 and GW-3 groundwater categories were selected as appropriate to characterize groundwater risks to future human on-site receptors and potential ecological receptors in the environs of the Acushnet River. The MCP Method 1 standards for GW-2 groundwater were developed by MADEP to address the potential migration of volatile materials from groundwater to indoor air. The MCP Method 1 standards for GW-3 groundwater provide for protection against migration and discharge of groundwater contaminants to surface water at concentrations above Ambient Water Quality Criteria for freshwater and marine environments.

The site is currently undergoing development for marine-related industry. Therefore, the MCP S-2 soil category was selected as the most appropriate to characterize potential on-site risks to future industrial receptors contacting surface soil contaminants. The MCP Method 1 standards for category S-2 soils were developed by MADEP to be protective of adult exposures to soil contaminants during work-related activities and also to be protective of childhood exposures to soil contaminants of low intensity and frequency (e.g., passive recreational exposures).

Based on the soil and groundwater category classification for the site, surface soil EPCs for each lot were compared to MCP Method 1 S-2/GW-2 and S-2/GW-3 soil standards, and groundwater EPCs for each temporary monitoring well were compared to MCP Method 1 GW-2 and GW-3 groundwater standards. The S-2/GW-2 and S-2/GW-3 soil standards are presented on Table 5-1. GW-2 and GW-3 groundwater standards are presented on Table 5-2.

Method 2 standards were not developed for contaminants lacking MCP Method 1 standards. Instead, EPCs for contaminants lacking MCP Method 1 standards were qualitatively discussed relative to background levels, if appropriate and available, to standards developed for other contaminants with similar toxicological and/or fate and transport characteristics, or to guidelines developed by other regulatory agencies for a detected contaminant.

5.2 Findings

Surface Soil. Surface soil EPCs exceeding MCP Method 1 soil standards are shown in bold on Table 5-1. No exceedances of soil standards were noted for Lots 1B, 7, 8, and 9. For Lot 2, slight exceedances of the MCP Method 1 soil standards for benzo(a)pyrene (700 μg/kg) and dibenzo(a,h)anthracene (700 μg/kg) were noted (770 and 820 μg/kg, respectively). A number of exceedances of MCP Method 1 standards were noted for Lots 3, 4, 5, and 6, including benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, and dibenzo(a,h)anthracene. In addition, the chrysene EPC for Lot 4 (10,300 μg/kg) slightly exceeds its Method 1 standard (10,000 μg/kg), and the lead EPC for Lot 3 (2,010 mg/kg) exceeds its Method 1 standard (600 mg/kg). As discussed in Section 4.4, the presence of PAHs and lead in surface soils may be related to the historical use and activities on the site.

Calcium, iron, magnesium, potassium, and sodium are essential nutrients, which were detected in on-site soils, lack MCP Method 1 soil standards. Because they are essential nutrients and present at relatively low environmental concentrations, it is unlikely that these analytes would present a risk to human or environmental receptors. In addition, the detected inorganic analytes aluminum, cobalt, copper, and manganese lack MCP Method 1 soil standards. However, MADEP has published background levels for these analytes in soil (aluminum 13,000 mg/kg; cobalt 4.4 mg/kg; copper 38 mg/kg; manganese 300 mg/kg). A comparison of the detected levels of these four analytes to their respective MADEP background levels demonstrates that each analyte is present at levels consistent with or only slightly above its background level.

MCP Method 1 soil standards are also lacking for the organic contaminants dibenzofuran, carbazole, *beta*-BHC, endosulfan sulfate, endrin ketone, and endrin aldehyde. The detected concentrations of these analytes may be qualitatively compared to MCP Method 1 soil standards developed for compounds with similar toxicological and/or fate and transport characteristics or to guidelines developed by other regulatory agencies for the detected contaminant. For this comparison, standards for: (1) endrin (S-2/GW-2 standard of 10,000 μg/kg and S-2/GW-3 standard of 1,000 μg/kg) have been selected for endrin ketone and endrin aldehyde; (2) endosulfan (S-2/GW-2 standard of 400,000 μg/kg and S-2/GW-3 standard of 5 μg/kg) have been selected for endosulfan sulfate; and (3) *gamma*-BHC (S-2/GW-2 standard of 600 μg/kg and S-2/GW-3 standard of 500 μg/kg) have been selected for *beta*-BHC. None of the EPCs for these compounds exceeds the surrogate Method 1 standard. Since no appropriate surrogates were identified for dibenzofuran and carbazole, the surface soil EPCs for these analytes have been qualitatively compared to the lower of the industrial soil risk-based concentration or the soil screening level (protective of leaching to groundwater, assuming dilution and attenuation) presented by EPA Region 9. All dibenzofuran surface soil EPCs are less than the screening level for dibenzofuran (510,00 μg/kg; risk-based concentration adjusted to a hazard index of 0.1). However, surface soil EPCs for Lots 3, 4, 5, and 6 exceed the screening level for carbazole (600 μg/kg; soil screening level).

Groundwater. Groundwater EPCs exceeding MCP Method 1 groundwater standards are shown in bold on Table 5-2. No exceedances of groundwater standards were noted for temporary monitoring well GW-02. For GW-01, an exceedance of the MCP Method 1 groundwater standards for PCB Aroclor-1254 (0.3 μg/l) was noted (EPC of 2.6 μg/l). A slight exceedance of the MCP Method 1 groundwater standard for cyanide (10 μg/l) was noted for GW-04 (EPC of 11.1 μg/l). However, as discussed in Section 4.4, the presence of cyanide in the GW-04 sample is uncertain. A number of inorganic exceedances of MCP Method 1 standards were noted for GW-03, including antimony, cadmium, nickel, and silver. It should be noted that field filtering was not performed on the groundwater sample from GW-03 prior to metals analysis.

Calcium, iron, magnesium, potassium, and sodium are essential nutrients, which were detected in on-site groundwater, but lack MCP Method 1 groundwater standards. Because they are essential nutrients and all, except sodium, are present at relatively low environmental concentrations, it is unlikely that these analytes would present a risk to human or environmental receptors. In addition, the detected metals aluminum, cobalt, copper, and manganese lack MCP Method 1 groundwater standards. No published MADEP background levels or appropriate risk-based concentrations are available to compare to the detected concentrations of these analytes. MCP Method 1 groundwater standards are also lacking for the *alpha*-BHC. The detected concentrations of this analyte may be qualitatively compared to the MCP Method 1 groundwater standards developed for a compound with similar toxicological and/or fate and transport characteristics. For this comparison, standards for *gamma*-BHC (GW-3 standard of 0.8 μg/l) have been selected for *alpha*-BHC. None of the EPCs for *alpha*-BHC exceed its surrogate Method 1 groundwater standard.

6.0 CONCLUSIONS AND RECOMMENDATIONS

This section presents the conclusions and recommendations for the BTSA investigation conducted at the Standard Times Field. The conclusions and recommendations are based on the intended future use of the site, which is to develop a 10-lot subdivision to support marine-related industry. Currently, the site preparation of the subdivision is being conducted by the city of New Bedford for this purpose.

The site is currently not listed as a waste site under the MCP. The BTSA was structured to provide environmental data that could be used to meet many of the requirements needed to assess the site relative to the MCP.

6.1 Conclusions

Information about historical use and operations at the site, ownership history, current site conditions, previous environmental studies at the site, and site-specific objectives are discussed in Section 2.0. The conclusions presented below focus on only the investigation and evaluation conducted as part of M&E's BTSA at the site.

- Groundwater flow direction, inferred from groundwater elevation measurements at four temporary monitoring wells, is east-southeast towards the Acushnet River.

- A large cylindrical concrete/rebar structure was located using geophysical techniques in the suspected area of the 150,000-gallon buried tank. The location was determined to be outside of the site boundaries. Test pits were excavated along the top of the tank and the western wall. Evidence of petroleum contamination in the immediate vicinity of the structure was visually observed during excavations. Petroleum hydrocarbons were detected in a soil/tar-like sample submitted for analysis from an opening on top of the structure.

- Evidence of coal layer 1 to 2 feet below grade was found in the suspected area of the former coal bin.

- Some of the building debris that is scattered across the site may contain asbestos. Asbestos was detected in a transite-type material on Lot 3.

- Aliphatic and aromatic hydrocarbon fractions, PAHs, pesticides, PCBs, and metals were detected in surface soils across the site. Applicable RCs (RCS-1 and RCS-2) and MCP Method 1 soil standards for industrial use were exceeded for PAHs in surface soils on Lots 2 through 6 and for lead in surface soils on Lot 3.

  - Since there is considerable evidence of historical coal use on the site, the site would qualify for exemption from notification for the PAH exceedances only.

- The lead exceedance on Lot 3 requires notification and further investigation. The source of the elevated lead level in this area is not known.

- The risk exceedances suggest that further investigation may be warranted at Lots 2 through 6 prior to industrial development.

- A limited number of organic compounds were detected in groundwater samples collected from four temporary monitoring wells installed across the site. The only organic compound that exceeded RCGW-2 values and MCP Method 1 groundwater standards for category GW-3 in groundwater was PCBs at GW-01 (Lot 3). A number of metals were detected; highest concentrations were found in the unfiltered sample from GW-03 (Lot 9). RCGW-2 values and MCP Method 1 groundwater standards for category GW-3 were exceeded for antimony, cadmium, nickel, and silver at GW-03 (Lot 9). RCGW-2 values and MCP Method 1 groundwater standards for category GW-3 were exceeded for cyanide at GW-04 (Lot 1B); however, the presence of cyanide detection is uncertain.

  - The PCB exceedance on Lot 3 and the metals exceedances on Lot 9 require notification and further investigation.

  - The risk exceedances suggest that further investigation may be warranted concerning potential impacts at the Acushnet River.

6.2 Recommendations

- Notification to MADEP is required because of applicable RC exceedances in surface soil and/or groundwater. Although it may involve more paperwork, it is suggested that separate notifications be made for different areas of the site. This will allow further assessments to be more focused and may facilitate a Response Action Outcome (RAO) for each specific area as it is investigated and/or remediated. A scope of work for Phase II investigation(s) and Tier Classification will need to be prepared and submitted in association with the notification paperwork.

  - Notification of PAH, PCB, and lead exceedances on Lot 3

  - Prepare separate notifications for Lot 3; one for area of SS-04A and one for area of SS-04B

  - Notification of metals exceedances on Lot 9

- Although there is not a need to notify the MADEP of subdivision lots with only PAH exceedances for RCs in surface soil (2 and 4 through 6) because of the coal/coal ash/wood ash exemption, further assessment and evaluation of risk is suggested.

- Consider applying minimal deed restrictions on subdivision lots with a reporting category of S-2 (Lots 2 through 6), to prevent future residential use.

- Precautions should be taken to ensure protection of personnel safety while conducting construction work on the site, particularly around building debris, where some materials may contain asbestos. Building debris materials such as roofing shingles, wall board, ceiling and floor tiles should be tested for ACMs prior to removal to determine proper disposal.

6.3 Limitations

No warranty, whether expressed or implied, is given with respect to this report or any opinions herein. It is expressly understood that this report and opinions expressed herein are based upon site conditions reported to M&E, observed by M&E, and as they existed only at the time this BTSA was conducted. Without limiting the foregoing, this report, any opinions or conclusions stated herein, and its attachments are subject to the complete General Statement of Limitations and Conditions provided in Appendix G, which are incorporated by reference into, and are an integral part of, this report submittal. This report has been prepared on behalf of, and for the exclusive use of, the U.S. Environmental Protection Agency. Any use of or reliance on M&E's report by a third party, even with M&E's consent, shall be at such party's own risk.

7.0 REFERENCES

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FIGURES

SOURCE: USGS TOPOGRAPHIC MAP
NEW BEDFORD SOUTH, MA., 1977

FIGURE 1-1. SITE LOCATION MAP
STANDARD TIMES FIELD
FRONT STREET
NEW BEDFORD, MASSACHUSETTS

01/6402

N/F
WARREN FIVE CENTS
SAVINGS BANK

"NEW BEDFORD RADIO STATION TOWER"

APPROXIMATE LOCATION OF FORMER GAS MACHINE AND GAS HOLDER

APPROXIMATE LOCATION OF FORMER COAL BIN

50' WIDE ACCESS/UTILITY EASEMENT

LOT 1A

LOT 1B

LOT 2

LOT 3

ZONE B

ZONE B

ZONE C

RESIDENTIAL

RESIDENTIAL

RESIDENTIAL

RESIDENTIAL

FRONT STREET (PUBLIC)

BLACKMER STREET

ACUSHNET RIVER

AREA OF STRESSED VEGETATION, BARE SOIL

PROPOSED 20' WIDE DRAINAGE EASEMENT

ZONE C

ZONE C

ZONE C

LOT 5

LOT 4

RESIDENTIAL

LISBON AUTO REPAIR

RESIDENTIAL

LOT 9

LOT 8

SILVA STREET

APPROXIMATE MEAN HIGH WATER LINE

PARCEL "A"

N

ZONE A1
ELEV. 6.0 MSL

100' BUFFER ZONE

ZONE A1
ELEV. 6.0 MSL

EXISTING PARKING LOT

EXISTING BASEBALL FIELD

ZONE C

AREA OF BURNED VEGETATION AND DEBRIS

AREA OF SUSPECTED BURIED 150,000 GALLON TANK

LOT 7

UNITED SOCIAL CLUB

LOT 6

100' BUFFER ZONE

APPROXIMATE LOCATION FORMER TRANSFORMER

AREA OF DIRT BIKE PATH

LEGEND

SUBDIVISION LOT BOUNDARY

ZONE A — FLOOD ZONE DESIGNATIONS

WETLANDS

SOURCE OF BASEMAP: (SITEC, 1998)
GRADE/UTILITY PLAN–SOUTH TERMINAL
OCTOBER 21, 1998

Note:
All BTSA locations are approximated based on GPS data obtained by Metcalf & Eddy.

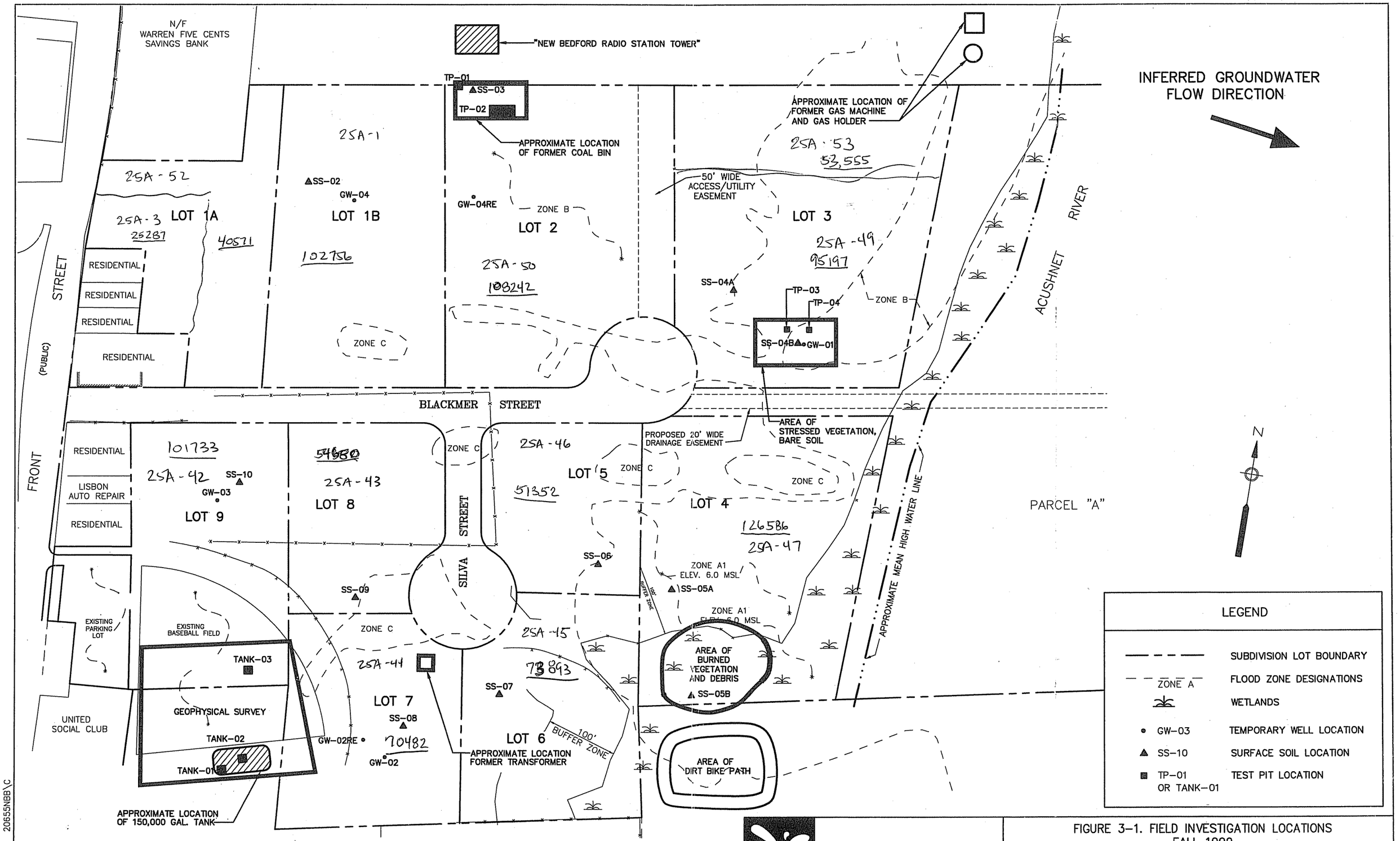
M&E AQUA ALLIANCE

METCALF & EDDY

FIGURE 2–1. SITE BASE MAP
FALL 1999
STANDARD TIMES FIELD
NEW BEDFORD, MASSACHUSETTS

SCALE: 1"=120'		1/18/00	CZNBB001

STDB – 08-04-93 20655NBB\C



SOURCE OF BASEMAP: (SITEC, 1998)
GRADE/UTILITY PLAN-SOUTH TERMINAL
OCTOBER 21, 1998

Note:
All BTSA locations are approximated based on GPS data obtained by Metcalf & Eddy.

M&E AQUA ALLIANCE

METCALF & EDDY

FIGURE 3-1. FIELD INVESTIGATION LOCATIONS
FALL 1999
STANDARD TIMES FIELD
NEW BEDFORD, MASSACHUSETTS

SCALE: 1"=120'		1/18/00	CZNBB003

STDB - 08-04-93 20655NBB\C

TABLE 3-1. SURFACE SOIL LOCATION SELECTION RATIONALE – STANDARD TIMES FIELD, FALL 1999 BTSA

Lot No.	Location ID	Rationale for Location Selection	Physical Description of Hole/Soil Sample
1B	SS-02	• most upgradient location for entire site (assumed groundwater flow direction) • possible impact area from off-site sources (Mutual Oil Station); no visual evidence of potential contaminant areas observed	• 0 to 1½ feet, dark loam • 1½ to 2 feet, sandy gravel • 2 to 3 feet, medium graded sand
2	SS-03	• located within estimated area of former coal bin	• 0 to ½ feet, sandy loam • ½ to 1 feet, clay with gravel • 1 to 1½ feet, sand with coal fragments over a layer of cobbles (possible road or foundation) • 1½ to 2 feet, sand • 2 to 3 feet, dark, dense sand with clay
3	SS-04A	• arbitrary location; no visual evidence of potential contaminant areas observed	• 0 to ½ feet, sandy loam • ½ to 3 feet, dense sand with gravel • 3 feet, dark dense clay layer (6 inches thick) • 3 to 4 feet, dense sandy clay below the clay layer
	SS-04B	• located within area of stressed vegetation, bare soil, capacitor debris, and coal ash	• 0 to 1 feet, sandy loam • 1 to 2 feet, sand • 2 to 2½ feet, layer of bricks • 2½ to 3 feet, dark, poorly graded sand and some coal ash with a sweet odor • cobbles and debris (brick and wood) were mixed throughout each layer
4	SS-05A	• arbitrary location; no visual evidence of potential contaminant areas observed	• 0 to 3 feet, loam with some sand, small quantity of bricks, wetland plant roots evident • 3 to 4 feet, greyish, dense sand
	SS-05B	• location within area of burned vegetation and debris including automotive/boat fuel tanks, tires, and glass fragments	• 0 to ½ feet, sandy loam • ½ to 3 feet, sandy clay with cobbles and some brick debris • 3 feet, dense sand layer
5	SS-06	• arbitrary location, placed; no visual evidence of potential contaminant areas observed	• 0 to 1 feet, dark sandy loam • 1 to 3 feet, dense sand with cobbles (some greyish sand mixed in)
6	SS-07	• arbitrary location; no visual evidence of potential contaminant areas observed	• 0 to 2 feet, fine sand with loam • 2 to 3 feet, sandy clay • 3 feet, ledge or boulder
7	SS-08	• arbitrary location, placed downgradient of suspected UST	• 0 to 1½ feet, loamy sand • 1.5 to 3 feet, poorly graded sand (beach sand)
8	SS-09	• arbitrary location; no visual evidence of potential contaminant areas observed	• 0 to 2 feet, sandy clay • 2 to 3 feet, dark, dense clay
9	SS-10	• arbitrary location, placed downgradient of auto body shop	• 0 to 1 feet, loamy sand • 1 to 3 feet, medium graded sand, some gravel

TABLE 3-2. SUMMARY OF SAMPLING LOCATIONS AND ANALYSES

LOT NO.	LOCATION ID	PARAMETERS*						
		VPH	EPH	SVOC	PEST	PCB	METALS	CYANIDE
SURFACE SOIL:								
1B	SS-02	x	x	x	x	x	x	x
2	SS-03	x	x	x	x	x	x	x
3	SS-04A	x	x	x	x	x	x	x
3	SS-04B	x	x	x	x	x	x	x
4	SS-05A	x	x	x	x	x	x	x
4	SS-05B	x	x	x	x	x	x	x
5	SS-06	x	x	x	x	x	x	x
6	SS-07	x	x	x	x	x	x	x
7	SS-08	x	x	x	x	x	x	x
8	SS-09	x	x	x	x	x	x	x
9	SS-10	x	x	x	x	x	x	x
GROUNDWATER:								
1B	GW-04	x	x	-	x	x	x	x
3	GW-01	x	x	-	x	x	x	x
7	GW-02	x	x	-	x	x	x	x
9	GW-03	x	x	-	**	**	x	x

NOTES:

* - Refer to Table 3-5 for analytical methodology

** - Sample volume not collected for this analysis due to poor recharge

VPH - Volatile Petroleum Hydrocarbons

EPH - Extractable Petroleum Hydrocarbons

PEST - Pesticides

PCB - Polychlorinated biphenyls

TABLE 3-3. TEMPORARY WELL LOCATION SELECTION RATIONALE – STANDARD TIMES FIELD, FALL 1999 BTSA

Lot No.	Location ID	Rationale for Location Selection
1B	GW-04	• located in the hydrogeologically-inferred downgradient direction of Mutual Oil Station • attempts to locate further northwest failed because of shallow refusal depths encountered (2 to 3 feet)
3	GW-01	• located within area of bare soil and stressed vegetation • attempts to locate further northeast failed because of difficult terrain and shallow refusal depths
7	GW-02	• located hydrogeologically-inferred downgradient direction of buried concrete structure (assumed to be 150,000-gallon buried tank)
3	GW-03	• located hydrogeologically-inferred downgradient direction of Lisbon Auto Repair Shop

TABLE 3-4. GROUNDWATER ELEVATION MEASUREMENTS

Lot No.	Location ID	Depth groundwater (ft bgs)	Relative Elevation* (feet)
1B	GW-04	6.15	7.21
3	GW-01	3.14	6.86
	GW-03	7.31	7.89
7	GW-02	5.90	7.10

*Top of well elevation is relative to an on-site reference point
ft bgs - feet below ground surface

TABLE 3-5. SAMPLE ANALYSES AND QUANTITIES COLLECTED

Analysis/Parameter*	Locations/ Field Samples	Field-Collected QC Samples				Total Samples
		Trip Blanks	Field Duplicates	MS	MSD	
Surface Soil Samples						
RAS						
Semivolatile Organic Compounds (OLM04.1)	11	0	1	1	1	14
Inorganics - Metals/Cyanide (ILM04.0)	11	0	1	1	0	13
Pesticides/PCBs (OLM04.1)	11	0	1	1	1	14
Directly Subcontracted						
Volatile Petroleum Hydrocarbons (VPH; MADEP)	11	1	1	0	0	13
Extractable Petroleum Hydrocarbons (EPH; MADEP)	11	0	1	0	0	12
Soil Samples - Ground Surface Debris						
Directly Subcontracted						
Asbestos (40CFR, Chap.1)	3	0	0	0	0	3
Product Sample - Buried Tank						
Directly Subcontracted						
GC/FID Fingerprint (SW8100)	1	0	0	0	0	1
PCBs (SW8082)	1	0	0	0	0	1
Groundwater						
RAS						
Metals (ILM04.0)	4	0	1	1	0	6
Cyanide (ILMO4.0)	3	0	1	1	0	5
Pesticides (OLMO4.1)	5	0	2	1	1	9
PCBs (OLM04.1)	5	0	2	1	1	9
Directly Subcontracted						
Volatile Petroleum Hydrocarbons (VPH; MADEP)	6	2	2	1	1	12
Extractable Petroleum Hydrocarbons (EPH; MADEP)	6	0	2	1	1	10

NOTES:

* - RAS method numbers indicate the most recent CLP Statement of Work revision. Previous versions may be used by the CLP laboratory. Methods for subcontracted laboratory analyses are presented paranthetically, with references listed below.

Directly Subcontracted Methods:

40CFR: Analysis is based upon *Analysis of Bulk Asbestos in Building Materials* as defined in 40 CFR.
SW846: Test Methods for Evaluating Solid Wastes, Third Edition, Update 3, U.S.EPA, December 1996.

CLP - Contract Laboratory Program
RAS - Routine Analytical Services
GC/FID - Gas Chromatograph/Flame Ionization Detector
MS/MSD - Matrix Spike/Matrix Spike Duplicate

TABLE 4-1. SUMMARY OF ANALYTICAL DATA – SURFACE SOILS *
BTSA INVESTIGATION – STANDARD TIMES FIELD – FALL 1999

LOT NUMBER	1B	8		9		2	3		4		
LOCATION NAME	SS-02	SS-09		SS-10		SS-03	SS-04A	SS-04B	SS-05A	SS-05B	
SAMPLE DEPTH (ft bgs)	0.0 - 3.0	0.0 - 3.0		0.0 - 3.0	Reportable	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	Reportable
M&E SAMPLE ID	SS0201STF	SS0901STF	SSK0901STF	SS1001STF	Concentrations	SS0301STF	SS0401STF	SS0402STF	SS0501STF	SS0502STF	Concentrations
DATE SAMPLED	09/28/99	09/28/99	09/28/99	09/28/99	**	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	**
COMMENTS			FD		RCS-1						RCS-2
PARAMETER/ANALYTE											
VOLATILE PETROLEUM HYDROCARBONS - MADEP-VPH-98-1 (µg/kg)											
None Detected											
EXTRACTABLE PETROLEUM HYDROCARBONS - MADEP-EPH-98-1 (µg/kg)											
C_9-C_{18} Aliphatics (1)	3,200 U	3,100 U	3,200 U	2,900 U	1,000,000	3,500 U	3,200	3,400 U	3,300 U	3,400 U	2,500,000
C_{19}-C_{36} Aliphatics (1)	4,200 U	4,200 U	4,200 U	3,900 U	2,500,000	4,600 U	50,000	19,000	32,000	19,000	5,000,000
C_{11}-C_{22} Aromatics (1,2)	9,000 U	8,900 U	9,000 U	8,300 U	200,000	23,000	180,000	120,000	290,000	75,000	2,000,000
Naphthalene	530 U	520 U	530 U	490 U	4,000	580 U	520 U	570 U	1,300	570 U	1,000,000
2-Methylnapthalene	530 U	520 U	530 U	490 U	4,000	580 U	520 U	570 U	720	570 U	1,000,000
Acenaphthylene	530 U	520 U	530 U	490 U	100,000	580 U	520 U	570 U	1,100	570 U	1,000,000
Acenaphthene	530 U	520 U	530 U	490 U	20,000	580 U	520 U	570 U	2,000	570 U	2,500,000
Fluorene	530 U	520 U	530 U	490 U	400,000	580 U	570	570 U	2,600	570 U	2,000,000
Phenanthene	530 U	520 U	530 U	490 U	100,000	1,500	7,800	6,800	20,000	1,500	100,000
Anthracene	530 U	520 U	530 U	490 U	1,000,000	580 U	2,100	1,600	4,000	570 U	1,000,000
Fluoranthene	530 U	520 U	530 U	490 U	1,000,000	1,600	16,000	13,000	24,000	3,000	1,000,000
Pyrene	530 U	520 U	530 U	490 U	700,000	1,500	17,000	13,000	28,000	3,900	2,000,000
Benzo(a)anthracene	530 U	520 U	530 U	490 U	700	780	**8,600**	**6,000**	**12,000**	**2,000**	1,000
Chrysene	530 U	520 U	530 U	490 U	7,000	850	7,400	5,200	**12,000**	2,000	10,000
Benzo(b)fluoranthene	530 U	520 U	530 U	490 U	700	580	**7,700**	**5,700**	**9,300**	**2,100**	1,000
Benzo(k)fluoranthene	530 U	520 U	530 U	490 U	7,000	770	4,600	5,300	8,700	1,800	10,000
Benzo(a)pyrene	530 U	520 U	530 U	490 U	700	**770**	**8,200**	**5,800**	**11,000**	**2,200**	700
Indeno(1,2,3-cd)pyrene (3)	530 U	520 U	530 U	490 U	700	820	**7,500**	**7,000**	**10,000**	**2,500**	1,000
Dibenzo(a,h)anthracene (3)	530 U	520 U	530 U	490 U	700	**820**	**7,500**	**7,000**	**10,000**	**2,500**	700
Benzo(g,h,I)perylene	530 U	520 U	530 U	490 U	1,000,000	580 U	5,300	5,000	7,400	2,000	2,500,000
SEMIVOLATILE ORGANIC COMPOUNDS - RAS (µg/kg)											
Naphthalene	360 U	350 U	340 U	18 J	4,000	140 J	450 J	510 J	1,300 J	430 J	1,000,000
2-Methylnaphthalene	360 UJ	350 UJ	340 UJ	340 UJ	4,000	49 J	440 J	250 J	480 J	3,800 UJ	1,000,000
Acenaphthylene	29 J	350 U	340 U	340 U	100,000	59 J	1,200 J	700 J	1,700 J	1,400 J	1,000,000
Acenaphthene	28 J	350 U	340 U	340 U	20,000	140 J	470 J	1,200 J	2,100 J	640 J	2,500,000
Dibenzofuran	19 J	350 U	340 U	340 U	100,000	110 J	370 J	710 J	1,600 J	410 J	1,000,000
Fluorene	27 J	350 U	340 U	340 U	400,000	140 J	1,600 J	1,400 J	2,200 J	820 J	2,000,000
Phenanthrene	360	22 J	27 J	84 J	100,000	1,100	11,000	14,000	18,000	7,000	100,000
Anthracene	83 J	350 U	340 U	25 J	1,000,000	250 J	3,300	4,200	5,600	2,200 J	1,000,000
Carbazole	42 J	350 U	340 U	340 U	–	150 J	770 J	2,000 J	2,400 J	670 J	–
Fluoranthene	650	41 J	72 J	170 J	1,000,000	1,400	14,000	21,000	24,000	12,000	1,000,000
Pyrene	530	35 J	60 J	140 J	700,000	1,100	20,000	19,000	22,000	12,000	2,000,000
Benzo(a)anthracene	290 J	23 J	37 J	91 J	700	640	**8,900**	**10,000**	**14,000**	**6,200**	1,000
Chrysene	320 J	27 J	35 J	96 J	7,000	700	8,400	9,900	**14,000**	6,600	10,000
Benzo(b)fluoranthene	250 J	21 J	33 J	76 J	700	580	**7,700**	**9,100**	**12,000**	**5,300**	1,000
Benzo(k)fluoranthene	340 J	25 J	33 J	92 J	7,000	620	5,000	**11,000**	**11,000**	6,100	10,000
Benzo(a)pyrene	310 J	21 J	36 J	92 J	700	650	**7,800**	**11,000**	**14,000**	**7,100**	700

TABLE 4-1. SUMMARY OF ANALYTICAL DATA -- SURFACE SOILS *
BTSA INVESTIGATION -- STANDARD TIMES FIELD -- FALL 1999

LOT NUMBER	1B	8		9		2	3		4		
LOCATION NAME	SS-02	SS-09		SS-10		SS-03	SS-04A	SS-04B	SS-05A	SS-05B	
SAMPLE DEPTH (ft bgs)	0.0 - 3.0	0.0 - 3.0		0.0 - 3.0	Reportable	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	Reportable
M&E SAMPLE ID	SS0201STF	SS0901STF	SSK0901STF	SS1001STF	Concentrations	SS0301STF	SS0401STF	SS0402STF	SS0501STF	SS0502STF	Concentrations
DATE SAMPLED	09/28/99	09/28/99	09/28/99	09/28/99	**	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	**
COMMENTS			FD		RCS-1						RCS-2
Indeno(1,2,3-cd)pyrene	190 J	350 U	22 J	59 J	700	**370 J**	**4,200**	**7,400**	**7,900**	**4,300**	700
Dibenz(a,h)anthracene	65 J	350 U	340 U	28 J	700	190 J	**2,100**	**2,500 J**	**3,200 J**	**1,500 J**	700
Benzo(g,h,i)perylene	190 J	19 J	24 J	66 J	1,000,000	400	4,700	8,300	9,100	5,300	2,500,000
PESTICIDES - RAS (µg/Kg)											
beta-BHC	3.9 J	1.8 UJ	1.8 UJ	1.7 UJ	10,000	1.9 UJ	R	R	2.0 UJ	2.0 UJ	100,000
Heptachlor	R	0.29 J	0.62 J	0.69 J	100	1.9 U	1.8 U	1.9 U	2.0 U	2.0 U	200
4,4'-DDE	20 J	3.4 U	3.5 U	3.3 U	2,000	3.7 U	R	82 J	R	R	2,000
Endrin	R	3.4 UJ	3.5 UJ	3.3 UJ	600	7.7 J	R	3.7 UJ	R	3.8 UJ	50
Endosulfan II	4.0 J	3.4 U	3.5 U	3.3 U	50	3.7 U	3.6 J	3.7 U	3.8 U	3.8 U	50
4,4'-DDD	3.4 U	3.4 U	3.5 U	3.3 U	2,000	R	R	3.7 U	3.8 U	73 J	3,000
Endosulfan sulfate (4)	13 J	3.4 U	3.5 U	3.3 U	50	R	R	22 J	12 J	8.0 J	50
4,4'-DDT	75	6.7 J	4.4 J	4.7 J	2000	11 J	R	300 J	R	R	2,000
Methoxychlor	40	18 UJ	18 UJ	17 UJ	30,000	53 J	18 UJ	180 J	R	R	30,000
Endrin ketone (5)	3.4 U	3.4 U	3.5 U	3.3 U	600	17 J	47 J	60 J	56 J	R	1,000
Endrin aldehyde	R	3.4 U	3.5 U	3.3 U	10,000	7.0 J	5.5 J	R	50 J	12 J	100,000
alpha-Chlordane	8.6 J	1.8 U	1.8 U	1.7 U	1,000	1.9 U	1.80 U	R	2.0 U	2.0 U	2,000
gamma-Chlordane	R	1.8 U	1.8 U	1.7 U	1,000	1.9 U	2.6 J	R	R	3.7 J	2,000
PCBS - RAS (µg/kg)											
Aroclor-1254	380 J	41	37	33 U	2,000	37 U	36 U	1,700 J	38 U	38 U	2,000
METALS - RAS (mg/kg)											
Aluminum	5,110	3,390	3,070	2,020	--	3,860	3,720	3,950	3,680	3,880	--
Antimony	0.48 J	0.49 UJ	0.47 UJ	0.46 UJ	10	0.51 UJ	21.4 J	0.54 UJ	0.49 UJ	0.52 UJ	40
Arsenic	1.3	1.7	1.6	1.0	30	14.3	5.5	14.7	7.1	6.6	30
Barium	18.3	8.1	7.1	10.4	1,000	55.1	165	125	86.8	28.9	2,500
Beryllium	0.02 U	0.04 U	0.06 U	0.04 U	1	0.12 U	0.11 U	0.59	0.11 U	0.09 U	0.8
Cadmium	0.09 U	0.09 U	0.09 U	0.08 U	30	0.09 U	1.9	0.34 U	0.09 U	0.09 U	80
Calcium	559	556	497	966	--	737	4,900	6,110	1,400	1,500	--
Chromium	4.4	7.1	6.2	3.8	1,000	4.5	9.1	5.7	9.1	8.5	2,500
Cobalt	1.5	1.8	1.5	1.2	500	2.7	3.5	3.5	3.1	2.3	5,000
Copper	4.7	7.3	5.2	6.7	1,000	16.5	47.7	57.5	32.8	28.5	10,000
Iron	5,770	6,370	5,600	3,400	--	9,730	17,400	10,700	16,600	12,400	--
Lead	30.0 J	5.4 J	5.1 J	13.4 J	300	105 J	**3,640 J**	379 J	151 J	99.7 J	600
Magnesium	834	1,260	1,100	858	--	929	1,290	1,880	1,280	943	--
Manganese	91.8	65.9	61.4	51.8	--	65.9	141	122	121	85.7	--
Mercury	0.06 UJ	0.06 UJ	0.05 UJ	0.05 UJ	20	0.05 UJ	0.07 UJ	0.27 J	0.41 J	0.08 UJ	60
Nickel	2.8	3.8	3.2	3.0	300	5.1	7.6	8.0	8.0	5.5	700
Potassium	253	556	442	256	--	985	324	480	433	308	--
Selenium	0.39 U	0.55 U	0.39 U	0.39 U	400	1.7 U	0.96 U	2.8	1.1 U	1.1 U	2,500
Silver	0.13 U	0.13 U	0.09 U	0.08 U	100	0.23 U	0.82	0.15 U	0.31 U	0.23 U	200
Sodium	94.0	132	98.2	117	--	255	129	305	132	114	--
Vanadium	8.6	10.1	8.5	4.9	400	9.2	11.7	14.9	22.8	11.5	2,000
Zinc	20.0	14.4	13.1	13.2	2,500	58.9	327	142	85.1	55.8	2,500

TABLE 4-1. SUMMARY OF ANALYTICAL DATA -- SURFACE SOILS *
BTSA INVESTIGATION -- STANDARD TIMES FIELD -- FALL 1999

LOT NUMBER	1B	8		9		2	3		4		
LOCATION NAME	SS-02	SS-09		SS-10		SS-03	SS-04A	SS-04B	SS-05A	SS-05B	
SAMPLE DEPTH (ft bgs)	0.0 - 3.0	0.0 - 3.0		0.0 - 3.0	Reportable	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	Reportable
M&E SAMPLE ID	SS0201STF	SS0901STF	SSK0901STF	SS1001STF	Concentrations	SS0301STF	SS0401STF	SS0402STF	SS0501STF	SS0502STF	Concentrations
DATE SAMPLED	09/28/99	09/28/99	09/28/99	09/28/99	**	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	**
COMMENTS			FD		RCS-1						RCS-2
INORGANICS - RAS (mg/kg)											
None Detected											
LAB SAMPLE ID											
Volatile Petroleum Hydrocarbons	43026-12	43026-9	43026-10	43026-11		43026-1	43026-2	43026-3	43026-4	43026-5	
Extractable Petroleum Hydrocarbons	43026-12	43026-9	43026-10	43026-11		43026-1	43026-2	43026-3	43026-4	43026-5	
Semivolatile Organic Compounds	APF79	APF88	APF89	APF90		APF80	APF81	APF82	APF83	APF84	
Pesticides/PCBs	APF79	APF88	APF89	APF90		APF80	APF81	APF82	APF83	APF84	
Inorganics (Metals/Cyanide)	MALP88	MALP97	MALP98	MALP99		MALP89	MALP90	MALP91	MALP92	MALP93	

TABLE 4-1. SUMMARY OF ANALYTICAL DATA -- SURFACE SOILS *
BTSA INVESTIGATION -- STANDARD TIMES FIELD -- FALL 1999

	5	6	7	8		9	
LOCATION NAME	SS-06	SS-07	SS-08	SS-09		SS-10	
SAMPLE DEPTH (ft bgs)	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0		0.0 - 3.0	Reportable
M&E SAMPLE ID	SS0601STF	SS0701STF	SS0801STF	SS0901STF	SSK0901STF	SS1001STF	Concentrations
DATE SAMPLED	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	**
COMMENTS					FD		RCS-2
PARAMETER/ANALYTE							
VOLATILE PETROLEUM HYDROCARBONS - MADEP-VPH-98-1 (µg/kg)							
None Detected							
EXTRACTABLE PETROLEUM HYDROCARBONS - MADEP-EPH-98-1 (µg/kg)							
C_9-C_{18} Aliphatics (1)	3,200 U	3,200 U	2,900 U	3,100 U	3,200 U	2,900 U	2,500,000
C_{19}-C_{36} Aliphatics (1)	14,000	7,500	3,900 U	4,200 U	4,200 U	3,900 U	5,000,000
C_{11}-C_{22} Aromatics (1,2)	60,000	49,000	8,900	8,900 U	9,000 U	8,300 U	2,000,000
Naphthalene	540 U	530 U	480 U	520 U	530 U	490 U	1,000,000
2-Methylnapthalene	540 U	530 U	480 U	520 U	530 U	490 U	1,000,000
Acenaphthylene	540 U	530 U	480 U	520 U	530 U	490 U	1,000,000
Acenaphthene	540 U	530 U	480 U	520 U	530 U	490 U	2,500,000
Fluorene	540 U	530 U	480 U	520 U	530 U	490 U	2,000,000
Phenanthene	1,900	3,400	480 U	520 U	530 U	490 U	100,000
Anthracene	540 U	820	480 U	520 U	530 U	490 U	1,000,000
Fluoranthene	3,200	4,900	480 U	520 U	530 U	490 U	1,000,000
Pyrene	3,800	4,800	480 U	520 U	530 U	490 U	2,000,000
Benzo(a)anthracene	**1,800**	**2,200**	480 U	520 U	530 U	490 U	1,000
Chrysene	1,900	2,100	480 U	520 U	530 U	490 U	10,000
Benzo(b)fluoranthene	**1,700**	**1,900**	480 U	520 U	530 U	490 U	1,000
Benzo(k)fluoranthene	1,200	1,600	480 U	520 U	530 U	490 U	10,000
Benzo(a)pyrene	**1,800**	**2,100**	480 U	520 U	530 U	490 U	700
Indeno(1,2,3-cd)pyrene (3)	**1,800**	**2,100**	480 U	520 U	530 U	490 U	1,000
Dibenzo(a,h)anthracene (3)	**1,800**	**2,100**	480 U	520 U	530 U	490 U	700
Benzo(g,h,I)perylene	1,300	1,400	480 U	520 U	530 U	490 U	2,500,000
SEMIVOLATILE ORGANIC COMPOUNDS - RAS (µg/kg)							
Naphthalene	500 J	280 J	330 U	350 U	340 U	18 J	1,000,000
2-Methylnaphthalene	170 J	3,700 UJ	330 UJ	350 UJ	340 UJ	340 UJ	1,000,000
Acenaphthylene	540 J	560 J	330 U	350 U	340 U	340 U	1,000,000
Acenaphthene	770 J	580 J	330 U	350 U	340 U	340 U	2,500,000
Dibenzofuran	570 J	370 J	330 U	350 U	340 U	340 U	1,000,000
Fluorene	840 J	540 J	330 U	350 U	340 U	340 U	2,000,000
Phenanthrene	7,600	5,400	35 J	22 J	27 J	84 J	100,000
Anthracene	1,800 J	1,400 J	330 U	350 U	340 U	25 J	1,000,000
Carbazole	880 J	650 J	330 U	350 U	340 U	340 U	--
Fluoranthene	9,400	8,900	70 J	41 J	72 J	170 J	1,000,000
Pyrene	8,600	8,200	56 J	35 J	60 J	140 J	2,000,000
Benzo(a)anthracene	**4,200**	**4,700**	33 J	23 J	37 J	91 J	1,000
Chrysene	4,400	4,900	35 J	27 J	35 J	96 J	10,000
Benzo(b)fluoranthene	**3,100 J**	**4,600**	24 J	21 J	33 J	76 J	1,000
Benzo(k)fluoranthene	4,400	5,200	48 J	25 J	33 J	92 J	10,000
Benzo(a)pyrene	**4,300**	**5,500**	31 J	21 J	36 J	92 J	700

TABLE 4-1. SUMMARY OF ANALYTICAL DATA – SURFACE SOILS *
BTSA INVESTIGATION – STANDARD TIMES FIELD – FALL 1999

	5	6	7	8		9	
LOCATION NAME	SS-06	SS-07	SS-08	SS-09		SS-10	
SAMPLE DEPTH (ft bgs)	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0		0.0 - 3.0	Reportable
M&E SAMPLE ID	SS0601STF	SS0701STF	SS0801STF	SS0901STF	SSK0901STF	SS1001STF	Concentrations
DATE SAMPLED	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	**
COMMENTS					FD		RCS-2
Indeno(1,2,3-cd)pyrene	2,400 J	3,300 J	25 J	350 U	22 J	59 J	700
Dibenz(a,h)anthracene	950 J	1,300 J	330 U	350 U	340 U	28 J	700
Benzo(g,h,i)perylene	2,600 J	3,800	25 J	19 J	24 J	66 J	2,500,000
PESTICIDES - RAS (µg/Kg)							
beta-BHC	1.8 UJ	1.7 UJ	1.7 UJ	1.8 UJ	1.8 UJ	1.7 UJ	100,000
Heptachlor	1.8 U	1.7 U	1.7 U	0.29 J	0.62 J	0.69 J	200
4,4'-DDE	38 J	R	3.3 U	3.4 U	3.5 U	3.3 U	2,000
Endrin	3.6 UJ	3.4 UJ	3.3 UJ	3.4 UJ	3.5 UJ	3.3 UJ	50
Endosulfan II	3.6 U	3.4 U	3.3 U	3.4 U	3.5 U	3.3 U	50
4,4'-DDD	R	R	3.3 U	3.4 U	3.5 U	3.3 U	3,000
Endosulfan sulfate (4)	3.6 U	R	3.3 U	3.4 U	3.5 U	3.3 U	50
4,4'-DDT	R	49 J	2.3 J	6.7 J	4.4 J	4.7 J	2,000
Methoxychlor	18 UJ	17 UJ	17 UJ	18 UJ	18 UJ	17 UJ	30,000
Endrin ketone (5)	21	10	3.3 U	3.4 U	3.5 U	3.3 U	1,000
Endrin aldehyde	3.6 U	3.4 U	3.3 U	3.4 U	3.5 U	3.3 U	100,000
alpha-Chlordane	1.8 U	1.7 U	1.7 U	1.8 U	1.8 U	1.7 U	2,000
gamma-Chlordane	1.8 U	R	1.7 U	1.8 U	1.8 U	1.7 U	2,000
PCBS - RAS (µg/kg)							
Aroclor-1254	360 J	380	33 U	41	37	33 U	2,000
METALS - RAS (mg/kg)							
Aluminum	3,940	3,650	2,620	3,390	3,070	2,020	–
Antimony	0.47 UJ	0.49 UJ	0.45 UJ	0.49 UJ	0.47 UJ	0.46 UJ	40
Arsenic	3.9	3.5	1.3	1.7	1.6	1.0	30
Barium	54.2	37.5	8.1	8.1	7.1	10.4	2,500
Beryllium	0.09 U	0.11 U	0.06 U	0.04 U	0.06 U	0.04 U	0.8
Cadmium	0.09 U	0.09 U	0.08 U	0.09 U	0.09 U	0.08 U	80
Calcium	1,180	1,070	468	556	497	966	–
Chromium	10.6	6.4	4.3	7.1	6.2	3.8	2,500
Cobalt	2.6	2.2	1.4	1.8	1.5	1.2	5,000
Copper	20.8	15.5	4.4	7.3	5.2	6.7	10,000
Iron	6,130	6,290	4,500	6,370	5,600	3,400	–
Lead	134 J	66.4 J	5.0 J	5.4 J	5.1 J	13.4 J	600
Magnesium	1,460	1,190	891	1,260	1,100	858	–
Manganese	76.5	84.5	58.2	65.9	61.4	51.8	–
Mercury	0.09 UJ	0.05 UJ	0.05 UJ	0.06 UJ	0.05 UJ	0.05 UJ	60
Nickel	6.8	4.8	3.4	3.8	3.2	3.0	700
Potassium	466	433	251	556	442	256	–
Selenium	0.42 U	0.49 U	0.42 U	0.55 U	0.39 U	0.39 U	2,500
Silver	0.17 U	0.13 U	0.16 U	0.13 U	0.09 U	0.08 U	200
Sodium	94.9	122	95.9	132	98.2	117	–
Vanadium	10.6	11.1	5.8	10.1	8.5	4.9	2,000
Zinc	69.5	39.3	11.9	14.4	13.1	13.2	2,500

TABLE 4-1. SUMMARY OF ANALYTICAL DATA -- SURFACE SOILS *
BTSA INVESTIGATION -- STANDARD TIMES FIELD -- FALL 1999

	5	6	7	8		9	
LOCATION NAME	SS-06	SS-07	SS-08	SS-09		SS-10	
SAMPLE DEPTH (ft bgs)	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0		0.0 - 3.0	Reportable
M&E SAMPLE ID	SS0601STF	SS0701STF	SS0801STF	SS0901STF	SSK0901STF	SS1001STF	Concentrations
DATE SAMPLED	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	**
COMMENTS					FD		RCS-2
INORGANICS - RAS (mg/kg)							
None Detected							
LAB SAMPLE ID							
Volatile Petroleum Hydrocarbons	43026-6	43026-7	43026-8	43026-9	43026-10	43026-11	
Extractable Petroleum Hydrocarbons	43026-6	43026-7	43026-8	43026-9	43026-10	43026-11	
Semivolatile Organic Compounds	APF85	APF86	APF87	APF88	APF89	APF90	
Pesticides/PCBs	APF85	APF86	APF87	APF88	APF89	APF90	
Inorganics (Metals/Cyanide)	MALP94	MALP95	MALP96	MALP97	MALP98	MALP99	

TABLE 4-1 NOTES:

ft bgs - feet below ground surface

FD - Field Duplicate

J - Quantitation is approximate due to limitations identified in the quality control review.

R - Value is rejected.

U - Value reported is the sample-specific detection limit.

UJ - Sample-specific detection limit is approximate due to limitations identified in the quality control review.

-- No Reportable Concentration

MADEP Criteria

S-1 Reportable Concentrations, 310 CMR 40.0000 Subpart P Massachusetts Oil and Hazardous Material List

S-2 Reportable Concentrations, 310 CMR 40.0000 Subpart P Massachusetts Oil and Hazardous Material List

* - Validated data presented. Analyte presented if it was detected in at least one sample from this grouping.

** - Values shown for standards are in the same units as the analytical data.

1. Hydrocarbon range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.
2. C_{11}-C_{22} Aromatic hydrocarbons exclude the concentration of target PAH analytes.
3. Values reported reflect their sum.
4. Reportable concentration for Endosulfan shown.
5. Reportable concentration for Endrin and Metabolites shown.

TABLE 4-2. SUMMARY OF ANALYTICAL DATA – GROUNDWATER *
BTSA INVESTIGATION – STANDARD TIMES FIELD – FALL 1999

LOT NUMBER	1B		3	7		9	
LOCATION NAME	GW-04 ***		GW-01	GW-02 ***		GW-03	
SAMPLE DEPTH (ft bgs) **	0-10 / 3-8.5		0-7	0-10 / 3-8		1-11	
M&E SAMPLE ID	GW0201STF & GW-02RE	GWK-02RE	FGW0401STF	FGW0801STF & GW-08RE	GWK0801STF	GW1001STF	Reportable Concentrations ****
DATE SAMPLED	/30&11/02/99	11/02/99	09/30/99	9/30&11/02/99	09/30/99	09/30/99	
COMMENTS		FD			FD		RCGW-2
PARAMETER/ANALYTE							
VOLATILE PETROLEUM HYDROCARBONS - MADEP-VPH-98-1 (µg/l)							
C_9-C_{12} Aliphatics (1,2)	100 U	100 U	120	100 U		100 U	1,000
Toluene	15 U	15 U	15 U	15 U		190	6,000
EXTRACTABLE PETROLEUM HYDROCARBONS - MADEP-EPH-98-1 (µg/l)							
C_{19}-C_{36} Aliphatics (1)	50 U	48 U	41 U	150		41 U	20,000
C_{11}-C_{22} Aromatics (1,3)	110 U	100 U	220 J	110 U		87 U	30,000
Naphthalene	6.2 U	6.0 U	8.1 J	6.2 U		5.1 U	6,000
2-Methylnapthalene	6.2 U	6.0 U	14 J	6.2 U		5.1 U	3,000
PESTICIDES - RAS (µg/l)							
alpha-BHC	0.050 U	0.050 U	0.26	0.050 U		(5)	5,000
Heptachlor	0.031 J	0.021 J	0.059 J	0.050 U		(5)	1
4,4'-DDE	0.10 U	0.10 U	0.16	0.10 U		(5)	100
4,4'-DDT	0.10 U	0.10 U	0.15 J	0.10 U		(5)	0.3
gamma-Chlordane	0.050 U	0.050 U	0.050 U	0.023 J		(5)	2
PCBS - RAS (µg/l)							
Aroclor-1254	1.0 U	1.0 U	**2.6 J**	1.0 U		(5)	0.3
METALS - RAS (µg/l) (4)							
Aluminum	66.7 U		98.4 U	51.4 U	46.3 U	2,530	–
Antimony	2.2 UJ		2.2 UJ	2.2 UJ	2.2 UJ	**352 J**	300
Arsenic	2.1 U		2.8 U	3.8 U	2.9 U	46.1	400
Barium	40.4		756	10.4 U	9.3 U	2,830	30,000
Beryllium	0.10 U		0.20 U	0.10 U	0.10 U	47.3	50
Cadmium	0.40 U		2.4	0.40 U	0.40 U	**53.0**	10
Calcium	56,000		508,000	88,700	86,500	494,000	–
Chromium	0.70		0.30 U	0.30 U	0.30 U	196	2,000
Cobalt	0.60 U		0.60 U	0.80 B	0.70	505	–
Copper	2.0 U		R	2.0 U	2.0 U	293	100,000
Iron	6,650		2,770	1,410	1,450	3,650	–
Lead	1.0 U		1.0 U	1.0 U	1.0 U	18.6	30
Magnesium	8,650		312,000	22,100	20,800	304,000	–
Manganese	373		550	940	878	1,030	–
Nickel	0.80 J		0.70 U	1.4 J	1.4 J	**522**	80
Potassium	6,360		120,000	18,100	16700	117,000	–
Selenium	1.8 U		1.8 U	1.8 U	1.8 U	9.8	80
Silver	0.40 U		0.40 UJ	0.40 U	0.40 U	**58.8**	7
Sodium	8,940		2,310,000	63,200	58,700	2,220,000	–
Thallium	2.0 U		2.0 U	2.3	2.0 U	50.1	400
Vanadium	0.90		0.80 UJ	0.80 U	0.80 U	503	2,000
Zinc	16.3 U		16.3 U	16.3 U	16.3 U	480	900
INORGANICS - RAS (µg/l)							
Cyanide	**11.1 J**		0.90 UJ	0.93 J	0.90 UJ	(5)	10
LAB SAMPLE ID							
Volatile Petroleum Hydrocarbons	43199-2	43199-3	43032-2	43199-4		43032-3	
Extractable Petroleum Hydrocarbons	43199-2	43199-3	43032-2	43199-4		43032-3	
Pesticides/PCBs	AQL49	AQL50	APG52	AQL51			
Inorganics (Metals/Cyanide)	MALQ07		MALQ02	MALQ04	MALQ06	MALQ03	

TABLE 4-2 NOTES:

ft bgs - feet below ground surface

FD - Field Duplicate

J - Quantitation is approximate due to limitations identified in the quality control review.

NA - Not Applicable (MCP footnote)

R - Value is rejected.

U - Value reported is the sample-specific detection limit.

UJ - Sample-specific detection limit is approximate due to limitations identified in the quality control review.

-- No Reportable Concentration

MADEP Criteria

GW-2 Reportable Concentrations, 310 CMR 40.0000 Subpart P Massachusetts Oil and Hazardous Material List

* - Validated data presented. Analyte presented if it was detected in at least one sample from this grouping.

** - Screened interval depth.

*** - Inorganic data from 9/30/99 sampling effort; organic data from 11/02/99 sampling effort.

**** - Values shown for standards are in the same units as the analytical data.

1. Hydrocarbon range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.
2. C_9-C_{12} Aliphatic hydrocarbons exclude the concentration of target analytes eluting in that range and the concentration of C_9-C_{10} aromatic hydrocarbons.
3. C_{11}-C_{22} Aromatic hydrocarbons exclude the concentration of target PAH analytes.
4. Groundwater samples for metals were field filtered, with the exception of GW-03.
5. Sample volume not collected for this analysis due to poor recharge.

TABLE 5-1. SUMMARY OF RISK SCREENING – SURFACE SOILS *
BTSA INVESTIGATION – STANDARD TIMES FIELD – FALL 1999

LOT NUMBER	1B	2	3	4	5	6	7	8	9	MCP Method 1 Soil Standards **	
LOCATION NAME	SS-02	SS-03	SS-04A/B	SS-05A/B	SS-06	SS-07	SS-08	SS-09	SS-10		
SAMPLE DEPTH (ft bgs)	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0		
M&E SAMPLE ID	SS0201STF	SS0301STF	SS0401STF	SS0501STF	SS0601STF	SS0701STF	SS0801STF	SS0901STF	SS1001STF		
DATE SAMPLED	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99		
COMMENTS										S-2/GW-2	S-2/GW-3
PARAMETER/ANALYTE											
VOLATILE PETROLEUM HYDROCARBONS - MADEP-VPH-98-1 (µg/kg)											
None Detected											
EXTRACTABLE PETROLEUM HYDROCARBONS - MADEP-EPH-98-1 (µg/kg)											
C_9-C_{18} Aliphatics	ND	ND	2,450	ND	ND	ND	ND	ND	ND	2,500,000	2,500,000
C_{19}-C_{36} Aliphatics	ND	ND	34,500	25,500	14,000	7,500	ND	ND	ND	5,000,000	5,000,000
C_{11}-C_{22} Aromatics	ND	23,000	150,000	182,500	60,000	49,000	8,900	ND	ND	2,000,000	2,000,000
Naphthalene	ND	ND	ND	793	ND	ND	ND	ND	ND	1,000,000	1,000,000
2-Methylnapthalene	ND	ND	ND	503	ND	ND	ND	ND	ND	1,000,000	1,000,000
Acenaphthylene	ND	ND	ND	693	ND	ND	ND	ND	ND	2,500,000	1,000,000
Acenaphthene	ND	ND	ND	1,143	ND	ND	ND	ND	ND	2,500,000	2,500,000
Fluorene	ND	ND	428	1,443	ND	ND	ND	ND	ND	2,000,000	2,000,000
Phenanthene	ND	1,500	7,300	10,750	1,900	3,400	ND	ND	ND	2,500,000	100,000
Anthracene	ND	ND	1,850	2,143	ND	820	ND	ND	ND	2,500,000	2,500,000
Fluoranthene	ND	1,600	14,500	13,500	3,200	4,900	ND	ND	ND	2,000,000	1,000,000
Pyrene	ND	1,500	15,000	15,950	3,800	4,800	ND	ND	ND	2,000,000	2,000,000
Benzo(a)anthracene	ND	780	**7,900**	**7,000**	**1,800**	**2,200**	ND	ND	ND	1,000	1,000
Chrysene	ND	850	6,300	7,000	1,900	2,100	ND	ND	ND	10,000	10,000
Benzo(b)fluoranthene	ND	580	**6,700**	**5,700**	**1,700**	**1,900**	ND	ND	ND	1,000	1,000
Benzo(k)fluoranthene	ND	770	4,950	5,250	1,200	1,600	ND	ND	ND	10,000	10,000
Benzo(a)pyrene	ND	**770**	**7,000**	**6,600**	**1,800**	**2,100**	ND	ND	ND	700	700
Indeno(1,2,3-cd)pyrene	ND	820	**7,250**	**6,250**	**1,800**	**2,100**	ND	ND	ND	1,000	1,000
Dibenzo(a,h)anthracene	ND	**820**	**7,250**	**6,250**	**1,800**	**2,100**	ND	ND	ND	700	700
Benzo(g,h,I)perylene	ND	ND	5,150	4,700	1,300	1,400	ND	ND	ND	2,500,000	2,500,000
SEMIVOLATILE ORGANIC COMPOUNDS - RAS (µg/kg)											
Naphthalene	ND	140 J	480	865	500 J	280 J	ND	ND	18 J	1,000,000	1,000,000
2-Methylnaphthalene	ND	49 J	345	1,190	170 J	ND	ND	ND	ND	1,000,000	1,000,000
Acenaphthylene	29 J	59 J	950	1,550	540 J	560 J	ND	ND	ND	2,500,000	1,000,000
Acenaphthene	28 J	140 J	835	1,370	770 J	580 J	ND	ND	ND	2,500,000	2,500,000
Dibenzofuran	19 J	110 J	540	1,005	570 J	370 J	ND	ND	ND	–	–
Fluorene	27 J	140 J	1,500	1,510	840 J	540 J	ND	ND	ND	2,000,000	2,000,000
Phenanthrene	360	1,100	12,500	12,500	7,600	5,400	35 J	25 J	84 J	2,500,000	100,000
Anthracene	83 J	250 J	3,750	3,900	1,800 J	1,400 J	ND	ND	25 J	2,500,000	2,500,000
Carbazole	42 J	150 J	13,850	1,535	880 J	650 J	ND	ND	ND	–	–
Fluoranthene	650	1,400	17,500	18,000	9,400	8,900	70 J	57 J	170 J	2,000,000	1,000,000
Pyrene	530	1,100	19,500	17,000	8,600	8,200	56 J	48 J	140 J	2,000,000	2,000,000
Benzo(a)anthracene	290 J	640	**9,450**	**10,100**	**4,200**	**4,700**	33 J	30 J	91 J	1,000	1,000
Chrysene	320 J	700	9,150	**10,300**	4,400	4,900	35 J	31 J	96 J	10,000	10,000
Benzo(b)fluoranthene	250 J	580	**8,400**	**8,650**	**3,100 J**	**4,600**	24 J	27 J	76 J	1,000	1,000
Benzo(k)fluoranthene	340 J	620	8,000	8,550	4,400	5,200	48 J	29 J	92 J	10,000	10,000
Benzo(a)pyrene	310 J	650	**9,400**	**10,550**	**4,300**	**5,500**	31 J	29 J	92 J	700	700
Indeno(1,2,3-cd)pyrene	190 J	370 J	**5,800**	**6,100**	**2,400 J**	**3,300 J**	25 J	ND	59 J	1,000	1,000

TABLE 5-1. SUMMARY OF RISK SCREENING -- SURFACE SOILS *
BTSA INVESTIGATION -- STANDARD TIMES FIELD -- FALL 1999

LOT NUMBER	1B	2	3	4	5	6	7	8	9	MCP Method 1 Soil Standards **	
LOCATION NAME	SS-02	SS-03	SS-04A/B	SS-05A/B	SS-06	SS-07	SS-08	SS-09	SS-10		
SAMPLE DEPTH (ft bgs)	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0	0.0 - 3.0		
M&E SAMPLE ID	SS0201STF	SS0301STF	SS0401STF	SS0501STF	SS0601STF	SS0701STF	SS0801STF	SS0901STF	SS1001STF		
DATE SAMPLED	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99	09/28/99		
COMMENTS										S-2/GW-2	S-2/GW-3
Dibenz(a,h)anthracene	65 J	190 J	**2,300**	**2,350**	**950 J**	**1,300 J**	ND	ND	28 J	700	700
Benzo(g,h,i)perylene	190 J	400	6,500	7,200	2,600 J	3,800	25 J	22 J	66 J	2,500,000	2,500,000
PESTICIDES - RAS (µg/kg)											
beta-BHC	3.9 J	ND	R	ND	ND	ND	ND	ND	ND	--	--
Heptachlor	R	ND	ND	ND	ND	ND	ND	0.46 J	0.69 J	200	200
4,4'-DDE	20 J	ND	82 J	R	38 J	R	ND	ND	ND	2,000	2,000
Endrin	R	7.7 J	ND	ND	ND	ND	ND	ND	ND	10,000	1,000
Endosulfan II	4.0 J	ND	2.7	ND	ND	ND	ND	ND	ND	400,000	50
4,4'-DDD	ND	R	ND	37	R	R	ND	ND	ND	3,000	3,000
Endosulfan sulfate	13 J	R	22 J	10	ND	R	ND	ND	ND	--	--
4,4'-DDT	75	11 J	300 J	R	R	49 J	2.3 J	5.6 J	4.7 J	2,000	2,000
Methoxychlor	40	53 J	95	R	ND	ND	ND	ND	ND	300,000	30,000
Endrin ketone	ND	17 J	54	56 J	21	10	ND	ND	ND	--	--
Endrin aldehyde	R	7.0 J	5.5 J	31	ND	ND	ND	ND	ND	--	--
alpha-Chlordane	8.6 J	ND	ND	ND	ND	ND	ND	ND	ND	2,000	2,000
gamma-Chlordane	R	ND	2.6 J	3.7 J	ND	R	ND	ND	ND	2,000	2,000
PCBS - RAS (µg/kg)											
Aroclor-1254	380 J	ND	859	ND	360 J	380	ND	39	ND	2,000	2,000
METALS - RAS (mg/kg)											
Aluminum	5,110	3,860	3,835	3,780	3,940	3,650	2,620	3,230	2,020	--	--
Antimony	0.48 J	ND	10.8	ND	ND	ND	ND	ND	ND	40	40
Arsenic	1.3	14.3	10.1	6.9	3.9	3.5	1.3	1.7	1.0	30	30
Barium	18.3	55.1	145	57.9	54.2	37.5	8.1	7.6	10.4	2,500	2,500
Beryllium	ND	ND	0.32	ND	ND	ND	ND	ND	ND	1	1
Cadmium	ND	ND	1.0	ND	ND	ND	ND	ND	ND	80	80
Calcium	559	737	5,505	1,450	1,180	1,070	468	527	966	--	--
Chromium	4.4	4.5	7.4	8.8	10.6	6.4	4.3	6.7	3.8	2,500	2,500
Cobalt	1.5	2.7	3.5	2.7	2.6	2.2	1.4	1.7	1.2	--	--
Copper	4.7	16.5	52.6	30.7	20.8	15.5	4.4	6.3	6.7	--	--
Iron	5,770	9,730	14,050	14,500	6,130	6,290	4,500	5,985	3,400	--	--
Lead	30.0 J	105 J	**2,010**	125.4	134 J	66.4 J	5.0 J	5.3 J	13.4 J	600	600
Magnesium	834	929	1,585	1,112	1,460	1,190	891	1,180	858	--	--
Manganese	91.8	65.9	132	103.4	76.5	84.5	58.2	63.7	51.8	--	--
Mercury	ND	ND	0.15	0.23	ND	ND	ND	ND	ND	60	60
Nickel	2.8	5.1	7.8	6.8	6.8	4.8	3.4	3.5	3.0	700	700
Potassium	253	985	402	371	466	433	251	499	256	--	--
Selenium	ND	ND	1.6	ND	ND	ND	ND	ND	ND	2,500	2,500
Silver	ND	ND	0.45	ND	ND	ND	ND	ND	ND	200	200
Sodium	94.0	255	217	123	94.9	122	95.9	115	117	--	--
Vanadium	8.6	9.2	13.3	17.2	10.6	11.1	5.8	9.3	4.9	2,000	2,000
Zinc	20.0	58.9	235	70.5	69.5	39.3	11.9	13.8	13.2	2,500	2,500
INORGANICS - RAS (mg/kg)											
None Detected											

TABLE 5-1 NOTES:

ft bgs - feet below ground surface

ND - Not detected above the sample-specific detection limit.

J - Quantitation is approximate due to limitations identified in the quality control review.

R - Value is rejected.

-- No MCP standard

MADEP Criteria

MCP Method 1 Soil Category S-2 Standards, Table 3

* - Validated data presented. Analyte presented if it was detected in at least one sample from this grouping.

** - Values shown for standards are in the same units as the analytical data.

TABLE 5-2. SUMMARY OF RISK SCREENING -- GROUNDWATER *
BTSA INVESTIGATION -- STANDARD TIMES FIELD -- FALL 1999

LOT NUMBER	1B	3	7	9	MCP Method 1 Groundwater Standards ****	
LOCATION NAME	GW-04 ***	GW-01	GW-02 ***	GW-03		
SAMPLE DEPTH (ft bgs) **	0-10 / 3-8.5	0-7	0-10 / 3-8	1-11		
M&E SAMPLE ID	GW0201STF & GW-02RE	FGW0401STF	GWK0801STF	GW1001STF		
DATE SAMPLED	/30&11/02/99	09/30/99	09/30/99	09/30/99		
COMMENTS					GW-2	GW-3
PARAMETER/ANALYTE						
VOLATILE PETROLEUM HYDROCARBONS - MADEP-VPH-98-1 (µg/l)						
C_9-C_{12} Aliphatics	ND	120	ND	ND	1,000	20,000
Toluene	ND	ND	ND	190	6,000	50,000
EXTRACTABLE PETROLEUM HYDROCARBONS - MADEP-EPH-98-1 (µg/l)						
C_{19}-C_{36} Aliphatics	ND	ND	150	ND	NA	20,000
C_{11}-C_{22} Aromatics	ND	220 J	ND	ND	50,000	30,000
Naphthalene	ND	8.1 J	ND	ND	6,000	6,000
2-Methylnapthalene	ND	14 J	ND	ND	10,000	3,000
PESTICIDES - RAS (µg/l)						
alpha-BHC	ND	0.26	ND	(2)	--	--
Heptachlor	0.026	0.059 J	ND	(2)	NA	1
4,4'-DDE	ND	0.16	ND	(2)	NA	100
4,4'-DDT	ND	0.15 J	ND	(2)	NA	0.3
gamma-Chlordane	ND	ND	0.023 J	(2)	NA	2
PCBS - RAS (µg/l)						
Aroclor-1254	ND	**2.6 J**	ND	(2)	NA	0.3
METALS - RAS (µg/l) (1)						
Aluminum	ND	ND	ND	2,530	--	--
Antimony	ND	ND	ND	**352 J**	NA	300
Arsenic	ND	ND	ND	46.1	NA	400
Barium	40.4	756	ND	2,830	NA	30,000
Beryllium	ND	ND	ND	47.3	NA	50
Cadmium	ND	2.4	ND	**53.0**	NA	10
Calcium	56,000	508,000	87,600	494,000	--	--
Chromium	0.70	ND	ND	196	NA	2,000
Cobalt	ND	ND	0.75	505	--	--
Copper	ND	R	ND	293	--	--
Iron	6,650	2,770	1,430	3,650	--	--
Lead	ND	ND	ND	18.6	NA	30
Magnesium	8,650	312,000	21,450	304,000	--	--
Manganese	373	550	909	1,030	--	--
Nickel	0.80 J	ND	1.4 J	**522**	NA	80
Potassium	6,360	120,000	17,400	117,000	--	--
Selenium	ND	ND	ND	9.8	NA	80
Silver	ND	ND	ND	**58.8**	NA	7
Sodium	8,940	2,310,000	60,950	2,220,000	--	--
Thallium	ND	ND	1.7	50.1	NA	400
Vanadium	0.90	ND	ND	503	NA	2,000
Zinc	ND	ND	ND	480	NA	900
INORGANICS - RAS (µg/l)						
Cyanide	**11.1 J**	ND	0.69	(2)	NA	10

TABLE 5-2 NOTES:

ft bgs - feet below ground surface

ND - Not detected above sample-specific detection limit.

J - Quantitation is approximate due to limitations identified in the quality control review.

NA - Not Applicable (MCP footnote)

R - Value is rejected.

-- No MCP standard

MADEP Criteria

MCP Method 1 Groundwater Standards, Table 1

* - Validated data presented. Analyte presented if it was detected in at least one sample from this grouping.

** - Screened interval depth.

*** - Inorganic data from 9/30/99 sampling effort; organic data from 11/02/99 sampling effort.

**** - Values shown for standards are in the same units as the analytical data.

1. Groundwater samples for metals were field filtered, with the exception of GW-03.
2. Sample volume not collected for this analysis due to poor recharge.

A

APPENDIX A. GEOPHYSICAL SURVEY REPORT

GEOPHYSICAL SURVEY
STANDARD TIMES FIELD SITE
NEW BEDFORD, MASSACHUSETTS

Hager GeoScience, Inc.

GEOPHYSICAL SURVEY
STANDARD TIMES FIELD SITE
NEW BEDFORD, MASSACHUSETTS

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Prepared for:

Metcalf & Eddy, Inc.
30 Harvard Mill Square Rd.
Wakefield, Massachusetts 01880

Prepared by:

Hager GeoScience, Inc.
174 Lexington Street
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File 99033
October 1999

Hager GeoScience, Inc.

INTRODUCTION

Metcalf & Eddy, Inc. (M&E) contracted with Hager GeoScience, Inc. (HGI) of Waltham, Massachusetts to perform a geophysical survey at a Brownfield site in New Bedford, Massachusetts under Brownfields Work Assignment #043-SISI-01ZZ. The site, known as the Standard Times Field Site, is located along South Front Street in downtown New Bedford, between Delano and Gifford Streets. The location of the site is shown in Figure 1.

The objective of the survey was to locate an underground storage tank (UST) possibly present at the site and, if located, to stake its location in the field.

PROCEDURE

HGI personnel performed the geophysical survey on September 28, 1999. An M&E representative, who was present during the survey, designated the survey area and its location. The location was selected to focus on a UST shown on a 1924 Sanborn Map, with the approximate UST location scaled off relative to current features. The grid for the survey area, a baseball field, was laid out using a fiberglass tape and spray paint; home plate was designated Station 0N, 0E.

The geophysical survey was performed using a combination of electromagnetic (EM) terrain conductivity and ground penetrating radar (GPR). The techniques and their limitations are discussed in more detail in a separate section at the end of this report. EM terrain conductivity was used to survey the entire designated survey area, with focused GPR performed in areas of EM anomalies. Figure 2 is a base map prepared from HGI field notes showing the locations of the survey traverses.

EM Terrain Conductivity

The EM survey was performed using a GEM-300 multi-frequency electromagnetic profiler. The GEM-300 uses multiple EM frequencies to enhance the detection of targets at varying depths. The GEM measures both the in-phase and quadrature-phase (conductivity) response of buried objects to an induced electromagnetic field. Metal objects are generally detected from the in-phase data, while variations in ground (soil and water) conductivity are more apparent in the quadrature-phase data.

EM traverses were made in north-south and east-west directions at a spacing of 10 feet. Data along each traverse were collected continuously and simultaneously at frequencies of 9990 and

7530 Hz. After completion of the fieldwork, the EM data were downloaded to a PC, processed, and contour plots prepared using SURFER® for Windows software.

Ground Penetrating Radar

The GPR survey was performed using a Geophysical Survey Systems, Inc., SIR System 2 digital ground penetrating radar system with 400 MHz antenna and survey wheel. The range was set at 80 nanoseconds (ns), for an estimated depth penetration of 12 to 15 feet. The operator carried the electronics and battery in a harness connected to the antenna by a 3-meter cable. The GPR data were displayed on a color monitor and simultaneously recorded on a hard drive for later processing and interpretation.

RESULTS

Preliminary results of the survey were reported to the M&E representative at the site and a possible UST-related target outlined with stakes in the field. The staked area is plotted to scale on Figure 2, as well as two utilities interpreted on the basis of the GPR data. Contour plots of data from the EM survey are shown in Plates 1 and 2. Data from both east-west and north-south traverses have been contoured; values are shown in parts per million (ppm).

EM Terrain Conductivity

Plate 1 (Area 1): Plate 1 shows contoured EM data from the southern portion of the survey area (Area 1 in Figure 2). Because in-phase and quadrature-phase contour plots were very similar, only the contour plots for in-phase data are shown. A large anomaly was detected in the southern half of EM Survey Area 1 between approximately 120E and 190E. The contour plots for data from the east-west traverses in this area show two additional small anomalies in the southwest corner. The negative anomaly near Station 0N, 0E may be related to the presence of home plate at that location, if it has associated metal. The other, positive anomaly may be related to the fence immediately to its south. However, these hypotheses are speculative.

Plate 2 (Area 2): Plate 2 shows contoured EM data from the northern portion of the survey area (Area 2 in Figure 2). Because the quadrature-phase plots provide additional information not found in the in-phase plots, this plate includes contours of both in-phase and quadrature-phase data. The quadrature-phase contour plots for EM Survey Area 2 show a distinct linear anomaly trending north-south and centered at 25E that is not visible in the in-phase plots. Since the feature producing this anomaly does not have an in-phase signature, we interpret it as a buried former foundation or possibly a large non-metallic utility.

Ground Penetrating Radar

GPR confirmed that a large anomaly identified in EM Survey Area 1 is composed of concrete with rebar and extends from approximately 120E to 190E. A portion of a GPR record from a traverse across the anomaly is shown in Figure 3. Since a UST might be present beneath the concrete, its location was staked in the field.

The GPR survey in the vicinity of the concrete structure detected several possible utilities, which have been plotted to scale in Figure 2.

Since no anomaly was detected in the in-phase data for EM Survey Area 2, no GPR was performed in that area.

THE GEOPHYSICAL TECHNIQUES

GROUND PENETRATING RADAR

Description of the Method

The principle of ground penetrating radar (GPR) is the same as that of weather radar, except that GPR transmits electromagnetic energy into the ground, and the energy is reflected back to the surface from interfaces between materials with contrasting electrical (dielectric and conductivity) and physical properties. The greater the contrast between two materials in the subsurface, the stronger the reflection observed on the GPR record. The depth of GPR signal penetration depends on the properties of the subsurface materials and the frequency of the antenna used to collect radar data. The lower the antenna frequency, the deeper the signal penetration but the lower the signal resolution.

We collect GPR data using a Geophysical Survey Systems SIR System 2 digital ground penetrating radar unit, which consists of a 486 computer connected to a transmit/receive antenna. Radar data are collected in discrete measurements (stacking) or continuous profile mode while moving the antenna across the ground and displayed in color on the computer monitor; they are simultaneously recorded on a 500 Mbyte hard drive for later processing and interpretation using proprietary RADAN® software. Hard copies of the data may also be printed in the field on a thermal printer.

Data Analysis and Interpretation

The horizontal scale of the GPR record shows distance along the survey traverse. In the continuous data collection mode, the horizontal scale on each GPR record is determined by the antenna speed. When a survey wheel is used, as at this site, the GPR record is automatically marked at specified intervals (chosen as one foot for this survey) along the survey line. The vertical scale of the radar records is determined by the recording interval. The recording interval represents the maximum two-way travel time in which data are recorded. The conversion of two-way travel time to depth depends on the propagation velocity of the GPR signal, which is site specific. In the absence of site-specific subsurface information about stratigraphy, we estimate propagation velocities from handbook values and experience at similar sites.

The size, shape, and amplitude of GPR reflections are used to interpret GPR data. Metal objects such as USTs and utilities produce reflections with high amplitude and distinctive hyperbolic shapes in GPR records when traverses are made perpendicular to their long axes. Clay or concrete pipes and boulders may produce radar signatures of similar shape but lower amplitude. The boundaries between saturated and unsaturated materials, sand and clay, and bedrock and

overburden, generally also produce strong reflections.

Limitations of the Method

GPR signal penetration is site specific, determined by the dielectric properties of local soil and fill materials. GPR signals propagate well in resistive materials such as sand and gravel; however, soils containing clay, ash- or cinder-laden fill, or fill saturated with brackish or otherwise conductive groundwater cause GPR signal attenuation and loss of target resolution (i.e., limited detection of small objects). Concrete containing rebar or mesh also inhibits signal penetration.

Interpreted depths of objects detected using GPR are based on on-site calibration, handbook values, and/or estimated GPR signal propagation velocities from similar sites. GPR velocities and depth estimates may vary if the medium of investigation or soil water content is not uniform throughout the site. (Electromagnetic waves do not travel as fast through water as air, so the distance to a reflector below the water table may appear farther than in actuality.)

Utilities are interpreted on the basis of reflectors of similar size and depth that show a linear trend, but GPR cannot unambiguously determine that all such reflectors are related. Fiberglass USTs or utilities composed of plastic or clay may be difficult to detect, as well as objects underneath reinforced concrete pads.

Changes in the speed at which the GPR antenna is moved between stations causes slight variations in distance interpolations, and hence in interpreted object positions.

The GPR antenna produces a cone-shaped signal pattern that emanates approximately 45 degrees from horizontal fore and aft of the antenna. Therefore, buried objects may be detected before the antenna is located directly over them, and GPR anomalies may appear larger than actual target dimensions.

GPR is an interpretive method, based on the subjective identification of reflection patterns that may not uniquely identify a subsurface target. The results must be verified by borings, test pits, or site utility plans.

EM TERRAIN CONDUCTIVITY

Description of the Method

The EM technique operates on the principle that secondary electric and magnetic currents can be induced in metal objects and conductive bodies, such as USTs, utilities, and leachate, when an electric field is applied. This instrumentation measures the secondary magnetic field strength relative to the primary magnetic field and converts it directly into a conductivity value. Both the quadrature-phase (conductivity) and in-phase components of the secondary electric field are measured and values plotted in parts per million (ppm). In general, the quadrature-phase (conductivity) data provide information about soil and groundwater conditions, while the in-phase data provide information about metal objects. The instrument response is more affected by near-surface than by deeper material.

We collect terrain conductivity data using a GEM-300 multi-frequency electromagnetic profiler. The GEM-300 is an electromagnetic induction-type instrument that measures terrain conductivity without electrodes or direct soil contact. The instrument is a hand-held, bistatic EM sensor that operates in the frequency-domain mode. It is field-programmable to operate at simultaneous, multiple frequencies between 325 and 19975 Hz. The GEM sensor contains a transmitter and receiver coil separated by about 5.5 feet, along with a third "bucking coil" that removes the primary field from the receiver coil. All coils are molded into a single board in a fixed geometry.

A removable signal-processing console is attached to the board, from which data are downloaded to a computer and processed. The GEM-300 is capable of detecting underground targets and features to a depth of 26 feet.

Data Analysis and Interpretation

Terrain conductivity surveys are commonly used to determine the lateral extent of fill and detect buried metal objects, utilities, and conductive leachate plumes. Typically, terrain conductivity values measured on fill materials are irregular and highly variable over short distances due to metal and the heterogeneous materials in the subsurface. The edge of fill materials is marked by a change to smoothly varying terrain conductivity values that represent native soils.

At sites free of metal objects and other cultural interference, the soil lithology and/or the conductivity of the ground water control the terrain conductivity measured at a particular location. In the presence of metal, conductivity values are often negative ("polarity reversals") and highly irregular. However, the exact identification of objects cannot be determined from the terrain conductivity data alone. The in-phase component helps confirm the location of metal

objects when correlated with conductivity data. Irregular or high positive or negative in-phase values may be caused by metal objects and help define their lateral extent.

Leachate plumes are generally recognized by relatively smoothly varying, but anomalously elevated, conductivity values, compared to background values for a given site. The value of the in-phase component resulting from conductive plumes generally shows little or no variation.

Limitations of the Method

EM conductivity values are influenced by proximity to aboveground metal objects, such as fences, vehicles, or buildings. Magnetic fields produced along overhead power lines also interfere with terrain conductivity readings.

The shape and amplitude of conductivity and in-phase anomalies do not uniquely describe a buried object or material. Rather, they are influenced by the orientation of EM survey lines and the buried object(s) relative to north, and the orientation of the EM sensor relative to this buried object(s). To better locate the source(s) of EM conductivity and in-phase anomalies, data are frequently collected in two perpendicular directions.

High ambient conductivity readings (from a conductivity plume, sludge, or naturally occurring geologic condition) may mask anomalous conductivity values caused by metal objects. Evaluating the in-phase component of the data minimizes this effect.

Closely buried utilities may produce anomalies that interfere with each other. Hence, in areas where numerous utilities are present, the observed anomaly may result from an interference pattern and may not uniquely describe the location of a specific utility. Further, anomalies often appear larger than the object that produces them.

Smaller utilities, or utilities constructed from reinforced concrete, may be masked by larger utilities constructed of metal. Nonmetallic fill such as unreinforced concrete rubble and utilities constructed from PVC, clay, or unreinforced concrete will not be detected.

Geophysical Survey
Standard Times Field Site
New Bedford, Massachusetts

File 99033

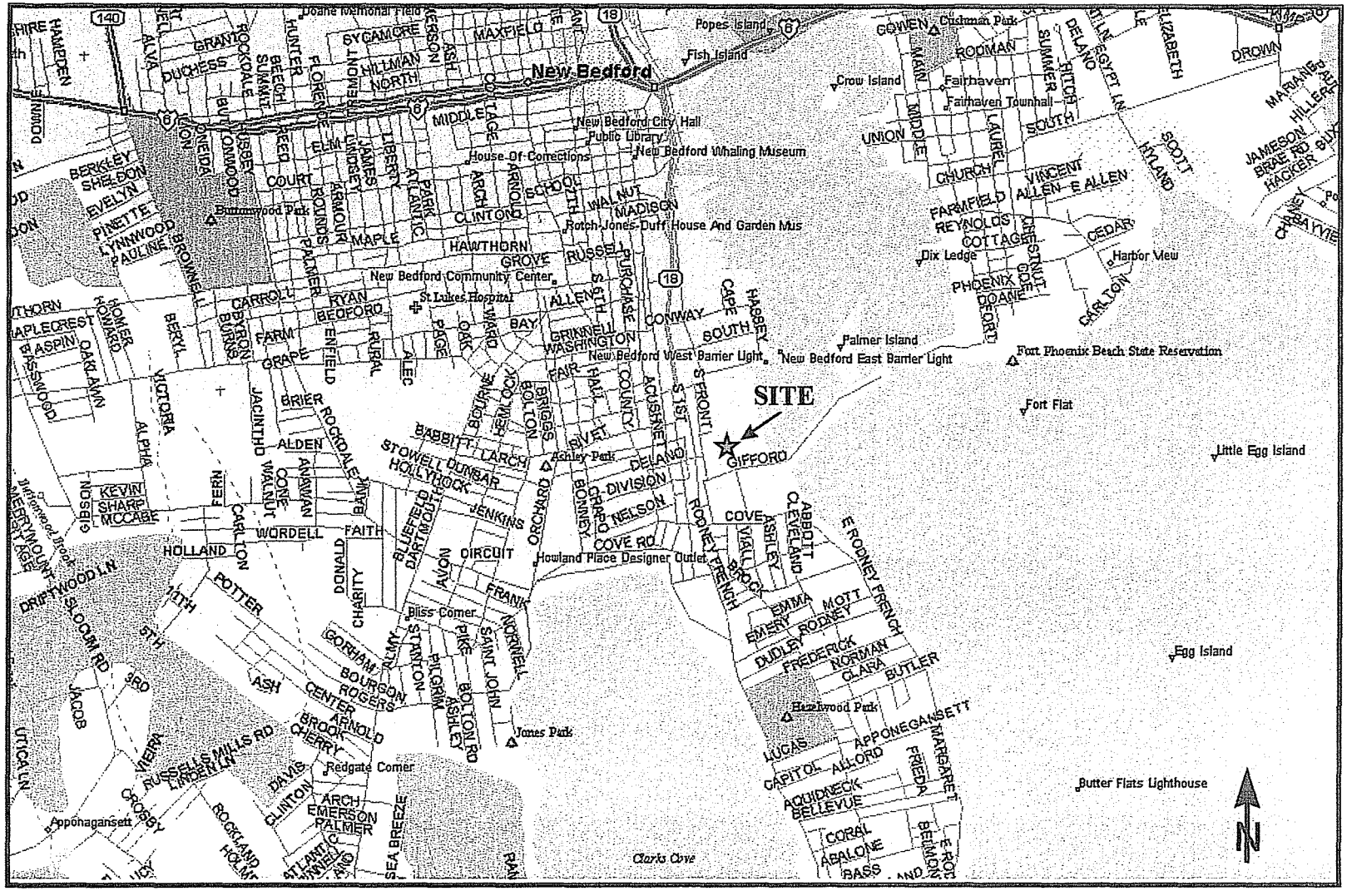


Figure 1. Location of the Standard Times Field Site, New Bedford, Massachusetts. Scale: 1 inch equals approx. 0.5 mi.

Hager GeoScience, Inc.

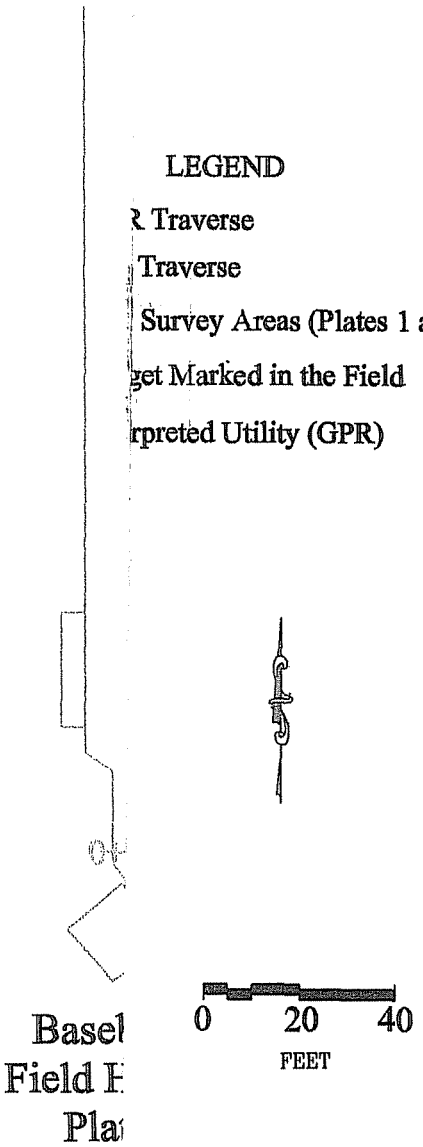


Figure 2

OCTOBER 1999	FILE NO. 99033

M AND GPR TRAVERSE
ATIONS AND STAKED TARGETS
STANDARD TIMES FIELD SITE
BEDFORD, MASSACHUSETTS

HAGER GEOSCIENCE, INC.

Geophysical Survey
Standard Times Field Site
New Bedford, Massachusetts

File 99033

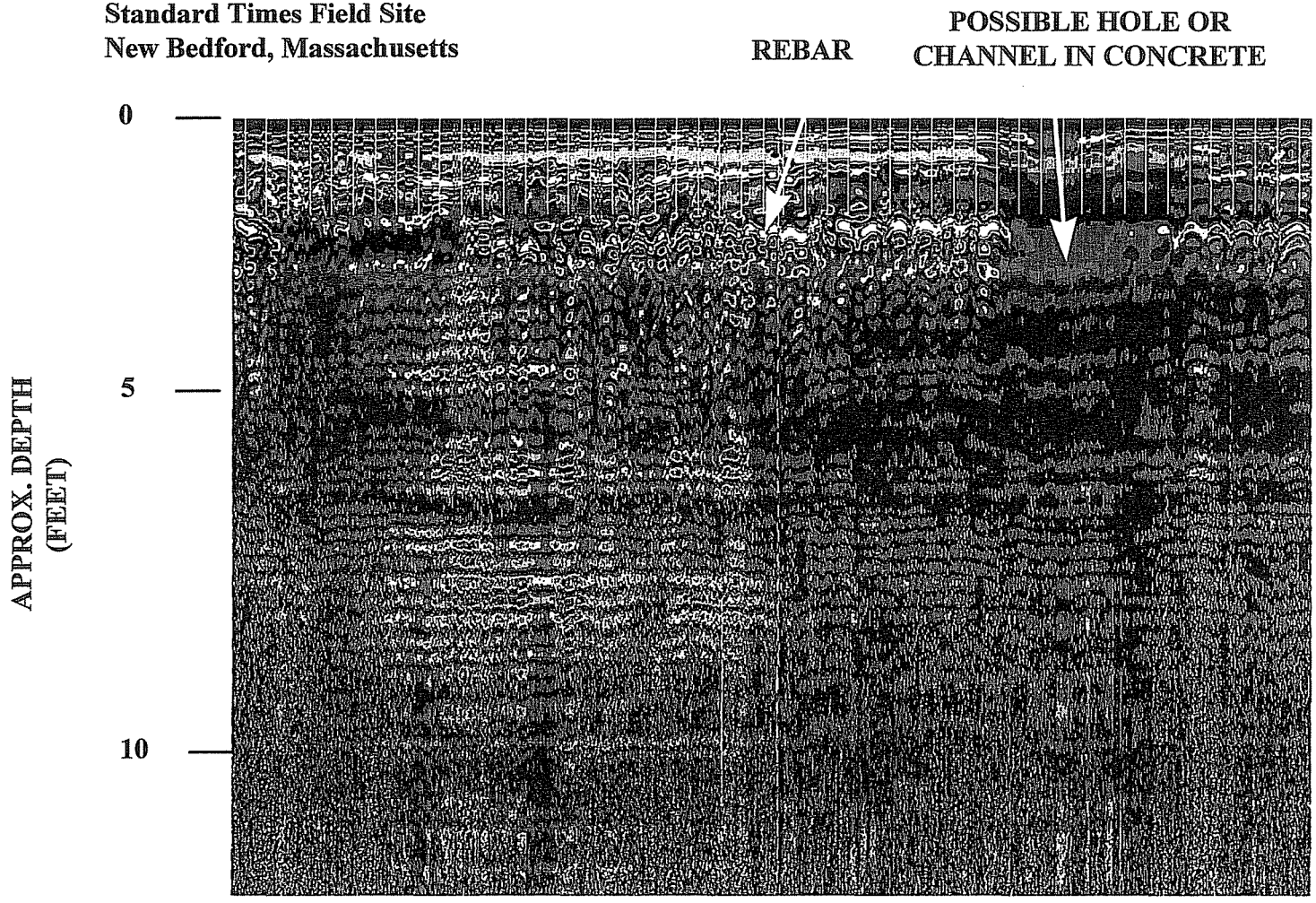


Figure 3. GPR record of portion of Traverse 170E across possible concrete vault at Standard Times Field Site. Ticks at top of record are one-foot distance marks produced by survey wheel. Depths are approximate and not linear, based on GPR signal velocities determined from handbook values and from experience at similar sites.

Hager GeoScience, Inc.

B

APPENDIX B. TEST PIT EXCAVATION LOGS

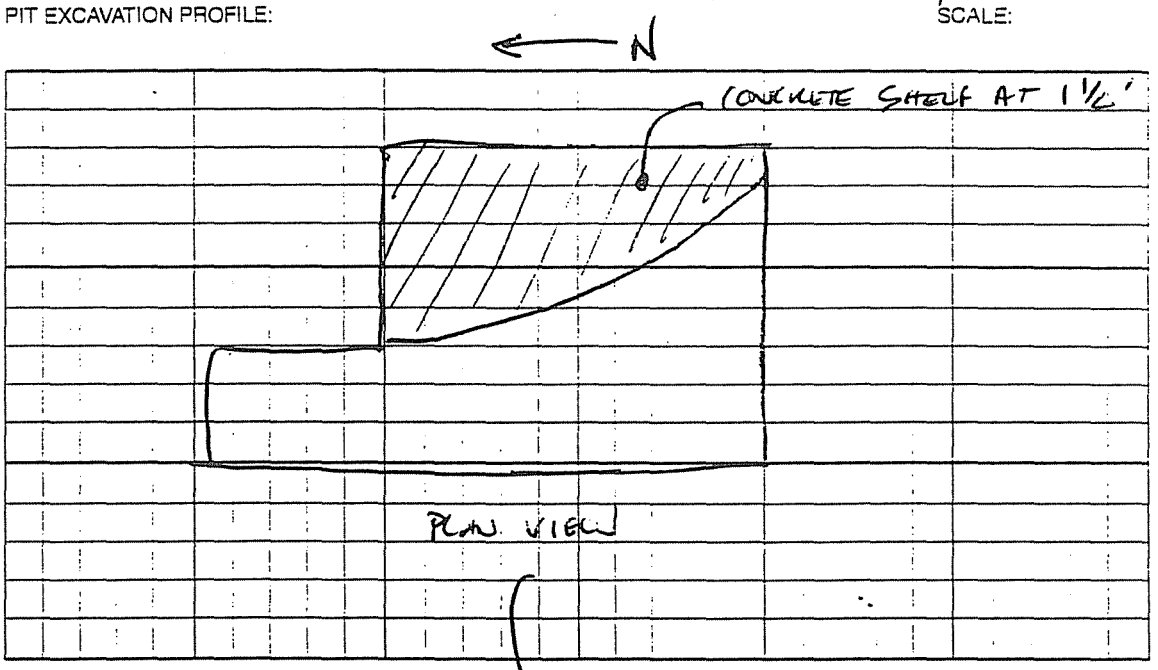
Metcalf & Eddy, Inc.
Engineers

Excavation Profile Log

PROJECT: STANDARD TIMES		SHEET: 2 OF 4	TEST PIT NO.: TANK-1
SITE LOCATION: NEW BEDFORD	JOB NO.: 020255-0002		
	GRID LOCATION: BRUSHFIELD	GROUND ELEV.:	TOTAL DEPTH: 7 ft
CONTRACTOR: MAE/CITY	ENG/GEO: N. THURBER		BEGUN: 0830
EQUIPMENT: BACKHOE	OPERATOR: CITY (KANDY)		FINISHED: 0930
PIT/TRENCH DIMENSIONS: 10' x 10'	WEATHER: OVERCAST, 70°F		GROUNDWATER (DEPTH): 7 ft
SAMPLING METHOD: SUBAN'L — GW CHECK FOR PROJECT	DECON. USED: DRY BRUSH w/ SCRAPPY WATER SPRAY		TOP OF ROCK (DEPTH):

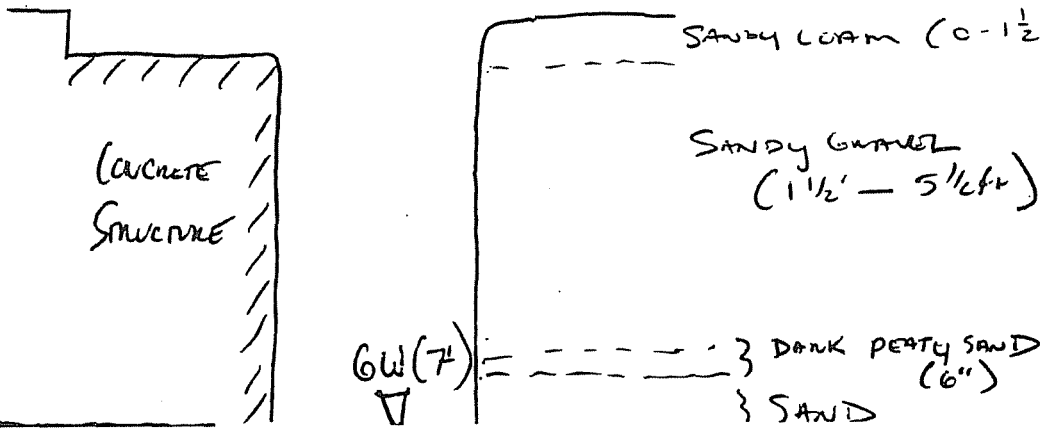
TEST PIT EXCAVATION PROFILE:

SCALE:



LOCATION OF TEST PITS:

SAMPLE COORDINATES:



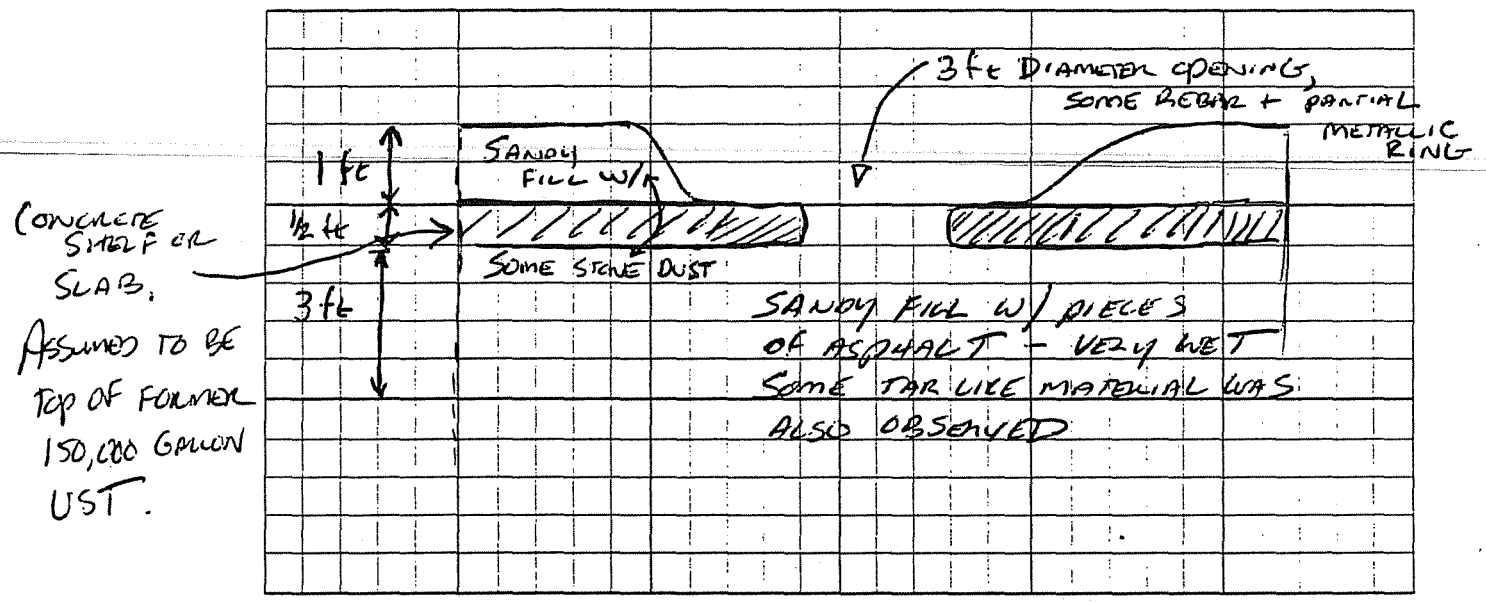
Metcalf & Eddy, Inc.
Engineers

Excavation Profile Log

M&E

PROJECT: STANDARD TIMES		SHEET: 3 OF 4	TEST PIT NO.: TANK-2
SITE LOCATION: NEW BEDFORD	JOB NO.: 020655-0002		
	GRID LOCATION: BALL FIELD	GROUND ELEV.:	TOTAL DEPTH: 3 ft
CONTRACTOR: M&E/CITY	ENG/GEO: N. THURBER	BEGUN: 0930	
EQUIPMENT: BACKHOE	OPERATOR: CITY	FINISHED: 1030	
PIT/TRENCH DIMENSIONS: 4x4 x 3' DEEP	WEATHER: OVERCAST, 70°F	GROUNDWATER (DEPTH): *2 ft (INSIDE TANK)	
SAMPLING METHOD:	DECON. USED: DRY BRUSH W/ SOAPY WATER SPRAY	TOP OF ROCK (DEPTH): 1 ft TO CONCRETE TANK	

TEST PIT EXCAVATION PROFILE: SCALE:



LOCATION OF TEST PITS: ALONG RIGHT FIELD FOUL LINE OF BALL FIELD
SEE BTSA REPORT FIGURE

~~SAMPLE COORDINATES:~~

* GROUNDWATER – UPON REMOVAL OF 3 ft OF SATURATED SANDY FILL FROM WITHIN OPENING, THE WATER LEVEL ROSE TO 1 FOOT BELOW THE TOP OF THE CONCRETE SHELF/SLAB (2 FEET BELOW GROUNDSURFACE)

Metcalf & Eddy, Inc.
Engineers

Excavation Profile Log

PROJECT: STANDARD TIMES		SHEET: 4 OF 4	TEST PIT NO.: TANK 2/3
SITE LOCATION: NEW BEDFORD	JOB NO.: 020655-0002		
	GRID LOCATION: BALL FIELD	GROUND ELEV.: —	TOTAL DEPTH: 3 feet
CONTRACTOR: ME/CITY	ENG/GEO: N. THURBER		BEGUN: 1030
EQUIPMENT: BACKHOE	OPERATOR: RANDY/CITY		FINISHED: 1045
PIT/TRENCH DIMENSIONS: 3x4x3 feet deep	WEATHER: OVERCAST, 70°F		GROUNDWATER (DEPTH): NOT OBSERVED
SAMPLING METHOD: NO SAMPLING	DECON. USED: DRY BRUSH, SOAPY WATER SPRAY		TOP OF ROCK (DEPTH): NOT OBSERVED

TEST PIT EXCAVATION PROFILE: SCALE:

	THICK GRASS AT SURFACE
1 ft	LOAM W/ SOME SAND
2 ft	GRAY, SANDY GRAVEL
3 ft	DARK SAND AND LOAM

LOCATION OF TEST PITS: NEAR CENTER FIELD IN BALL FIELD (SEE BISA REPORT FIGURE)

SAMPLE COORDINATES:

TEST PIT WAS DUG TO CHECK THE EXTENT OF THE CONCRETE TANK BOUNDARIES. NO EVIDENCE OF CONCRETE OR IMPACTED SOILS WERE OBSERVED.

Metcalf & Eddy, Inc.
Engineers

Excavation Profile Log

PROJECT: STANDARD TIMES		SHEET: 1 OF 1	TEST PIT NO.: TP-01
SITE LOCATION: NEW BEDFORD, MA	JOB NO.: 020655-0002		
	GRID LOCATION: COAL BIN	GROUND ELEV.: —	TOTAL DEPTH: 6.5 ft
CONTRACTOR: M&E/CIRY	ENG/GEO: N. THURBER		BEGUN: 0930
EQUIPMENT: BACKHOE	OPERATOR: CIRY (FRANK)		FINISHED: 0945
PIT/TRENCH DIMENSIONS: 6 x 4 x 6	WEATHER: CLEAR, 70°F		GROUNDWATER (DEPTH): 6 ft
SAMPLING METHOD: NONE	DECON. USED: DRY BRUSH, SOAP + WATER SPRAY		TOP OF ROCK (DEPTH): NONE SEEN

TEST PIT EXCAVATION PROFILE: SCALE: 1 sq = 1/2 ft

BRUSH AT TOP

1 ft	MEDIUM GRADED SAND W/ ROOTS
2 ft	DENSE SOIL W/ COAL FRAGMENTS
3 ft	SANDY GRAVEL W/ SOME MIXED REDISH/BROWN SAND, TO BOTTOM @ 6.5 ft
4 ft	
5 ft	
6 ft	▽ GROUNDWATER @ 6 ft

(NO SHEEN ON GROUNDWATER)

LOCATION OF TEST PITS: LOCATION OF SUSPECTED COAL BIN NEAR RADIO TOWER (ABOUT 75' FROM LOT 1 + 2 CORNERS)

SAMPLE COORDINATES:

* NO HEADSPACE READINGS ABOVE BACKGROUND
NO ODOR, SLIGHT COAL ODOR IN LAYER W/ COAL FRAGMENTS

Metcalf & Eddy, Inc.
Engineers

Excavation Profile Log

PROJECT: STANDARD TIMES		SHEET: 1 OF 1	TEST PIT NO.: TP-02
SITE LOCATION: NEW BEDFORD, MA	JOB NO.: 020655-002		
	GRID LOCATION: COAL BIN	GROUND ELEV.: —	TOTAL DEPTH: 6.5 ft
CONTRACTOR: M+E/CIM	ENG/GEO: N. THABER		BEGUN: 0950
EQUIPMENT: BACKHOE	OPERATOR: CIM (FLAME)		FINISHED: 1015
PIT/TRENCH DIMENSIONS: 6 x 4 x 6½	WEATHER: CLEAR, 70°F		GROUNDWATER (DEPTH): 6½'
SAMPLING METHOD: NONE	DECON. USED: DRY BRUSH, SOAPY WATER SPRAY		TOP OF ROCK (DEPTH): NONE

TEST PIT EXCAVATION PROFILE: SCALE:

BRUSH AT TOP

1ft	MEDIUM GRADED SAND W/ROOTS
2ft	DENSE SOIL W/ COAL FRAGMENTS
3ft	SANDY GRAVEL W/ MIXED ~~RED~~ RED/BROWN SAND
4ft	
5ft	
6ft	GROUNDWATER @ 6½ft

LOCATION OF TEST PITS: ~~100 ft FROM~~ 20 ft FROM LOT 1+2 CORNER S

~~SAMPLE COORDINATES~~:

* NO SHEEN ON GROUNDWATER

NO ODOR (OTHER THAN MILD COAL-TYPE ODOR)

Metcalf & Eddy, Inc.
Engineers

Excavation Profile Log

PROJECT: STANDARD TIMES 9/27/99		SHEET: 1 OF 1	TEST PIT NO.: TP-03
SITE LOCATION: NEW BEDFORD	JOB NO.: 020655-0002		
	GRID LOCATION: LOT 3, NEAR STRESSED VEGETATION	GROUND ELEV.: —	TOTAL DEPTH:
CONTRACTOR: M&E / CITY	ENG/GEO: N. THUNBER		BEGUN: 10:45
EQUIPMENT: BACKHOE	OPERATOR: CITY (FRANK)		FINISHED: 11:00
PIT/TRENCH DIMENSIONS: 6 X 4 X 5 ft depth	WEATHER: CLEAR, 70°		GROUNDWATER (DEPTH): 4 ft
SAMPLING METHOD: NONE	DECON. USED: DRY BRUSH, SOAP + WATER SPRAY		TOP OF ROCK (DEPTH): —

TEST PIT EXCAVATION PROFILE: SCALE: 1 sq = 1/2 ft²

0' NO VEGETATION / SANDY

1 ft	SANDY LOAM, SOME DEBRIS -
2 ft	BRICK, WOOD, ROOFING
3 ft	MEDIUM GRADED SAND - WOOD +
4 ft	BRICK DEBRIS ← GROUNDWATER @ 4 ft
5 ft	(* WOOD PLANKS FOUND 4-5 FEET)

LOCATION OF TEST PITS: THIS TEST PIT WAS LOCATED IN AREA OF STRESSED VEGETATION ON EASTERN BOUNDARY OF THE SITE.

~~SAMPLE COORDINATES:~~

Metcalf & Eddy, Inc.
Engineers

Excavation Profile Log

M&E

PROJECT: STANDARD TIMES 9/27/99		SHEET: 1 OF 1	TEST PIT NO.: TP-04
SITE LOCATION: NEW BEDFORD	JOB NO.: 02N055-002		
	GRID LOCATION: LOT 3	GROUND ELEV.: —	TOTAL DEPTH: 5 ft
CONTRACTOR: M&E / CITY	ENG/GEO: N. THURBER		BEGUN: 11:00
EQUIPMENT: BACKHOE	OPERATOR: CITY (FRANK)		FINISHED: 11:15
PIT/TRENCH DIMENSIONS: ~~4x~~ 6x4x5 ft depth	WEATHER: CLEAR, 70°F		GROUNDWATER (DEPTH): 4 ft
SAMPLING METHOD: NONE	DECON. USED: DRY BRUSH, SOAP + WATER SPRAY		TOP OF ROCK (DEPTH): —

TEST PIT EXCAVATION PROFILE: SCALE: 1 square = 1/6 ft

NO VEGETATION AT SURFACE

1 ft	SANDY LOAM W/ SOME DEBRIS, MOSTLY BRICK	
2 ft		
3 ft	DEFINED LAYER OF BRICK BETWEEN 2 & 3 FEET	
4 ft		← GRANULATION @ 4 ft
5 ft	SANDY MATERIAL W/ DEBRIS (SIMILAR)	* A SULFUR-LIKE ODOR WAS DETECTED AT 4 ft

LOCATION OF TEST PITS: NEAR EASTERN BOUNDARY WITHIN AREA OF STRESSED VEGETATION — 10 ft FROM TP-03

SAMPLE COORDINATES:

C

APPENDIX C. WELL INSTALLATION LOGS

TEMPORARY WELL/PIEZOMETER GEOLOGIC AND INSTALLATION LOG

METCALF & EDDY, INC.	SITE LOCATION	BORING/WELL ID
30 Harvard Mill Square Wakefield, MA 01880 (617) 246-5200	Standard Times Field New Bedford, MA	CW-01

DRILL CONTRACTOR: GeoTek
DRILLER: Joe Bell
ENG/GEO: M. Gallagher
START DATE: 9/29/99
FINISH DATE: 9/29/99
~~SAMPLING~~ DVPMT METHOD: Peristaltic/low flow

DRILLING METHOD: Direct-push
DRILL RIG: Earth Probe 2000
SAMPLING METHOD: NA
PIPE MATERIAL: Sch 40 PVC
PIPE SIZE: 1" OD
SCREEN LENGTH: 7ft
DRILLING FLUID: NA
RISER: Flush mounted

PAGE 1 of 1

Depth	Sample No./ Interval	Blow Cnts (per 6")	Well/ Screen Install	Rec. Length (inches)	PID (ppm)	Water Table	Field Classification	Stratigraphic Description
0 ft	NA	NA		NA			PID - ϕ HOLE	
						▽ 2.98ft	- ϕ Breathing Zone NA	
5 ft								
			screen					
			bottom					
10 ft			7 ft					
15 ft								
20 ft								
25 ft								
30 ft								
35 ft								

TEMPORARY WELL/PIEZOMETER GEOLOGIC AND INSTALLATION LOG

METCALF & EDDY, INC.
30 Harvard Mill Square
Wakefield, MA 01880
(617) 246-5200

SITE LOCATION
Standard Times Field
New Bedford, MA

BORING/WELL ID
GW-02

DRILL CONTRACTOR: GeoTek
DRILLER: Joe Bell
ENG/GEO: M Gallagher
START DATE: 9/29/99
FINISH DATE: 9/29/99
~~SAMPLING~~ DVPMT METHOD: Peristaltic / Low flow

DRILLING METHOD: Direct-Push
DRILL RIG: Earth Probe 2000
SAMPLING METHOD: NA
PIPE MATERIAL: Sch 40 PVC
PIPE SIZE: 1" OD
SCREEN LENGTH: 10 ft
DRILLING FLUID: NA
Riser: Flush Mounted

PAGE 1 of 1

Depth	Sample No./ Interval	Blow Cnts (per 6")	Well/ Screen Install	Rec. Length (inches)	PID (ppm)	Water Table	Field Classification	Stratigraphic Description
0 ft					0-hole			NA
	NA	NA		NA				
5 ft								
					0	▽ 6 ft		
10 ft							Screen Bottom	
			Bottom 10 ft					
15 ft								
20 ft								
25 ft								
30 ft								
35 ft								

TEMPORARY WELL/PIEZOMETER GEOLOGIC AND INSTALLATION LOG

METCALF & EDDY, INC.	SITE LOCATION	BORING/WELL ID
30 Harvard Mill Square Wakefield, MA 01880 (617) 246-5200	Standard Times Field New Bedford, MA	GW-03

DRILL CONTRACTOR: GeoTek
DRILLER: U. Bell
ENG/GEO: M. Gallagher
START DATE: 9/29/99
FINISH DATE: 9/29/99
~~SAMPLING~~ DUPMT METHOD: peristaltic/low flow

DRILLING METHOD: Direct Push
DRILL RIG: Earth Probe 2000
SAMPLING METHOD: NA
PIPE MATERIAL: Sch 40 PVC
PIPE SIZE: 1" OD
SCREEN LENGTH: 10 ft
DRILLING FLUID: NA
Riser: Flush mounted

PAGE 1 of 1

Depth	Sample No./ Interval	Blow Cnts (per 6")	Well/ Screen Install	Rec. Length (inches)	PID (ppm)	Water Table	Field Classification	Stratigraphic Description
0 ft			top 1 ft		Ø			
	NA	NA		NA				NA
5 ft								
					Ø	▽ 8 ft		
10 ft								
			bottom 11 ft					
15 ft								
20 ft								
25 ft								
30 ft								
35 ft								

TEMPORARY WELL/PIEZOMETER GEOLOGIC AND INSTALLATION LOG

METCALF & EDDY, INC.
30 Harvard Mill Square
Wakefield, MA 01880
(617) 246-5200

SITE LOCATION
Standard Times Field
New Bedford, MA

BORING/WELL ID
GW-04

DRILL CONTRACTOR: GeoTek
DRILLER: V. Bell
ENG/GEO: M Gallagher
START DATE: 9/29/99
FINISH DATE: 9/29/99
~~SAMPLING~~ DWPMT METHOD: Peristaltic / low flow

DRILLING METHOD: Direct Push
DRILL RIG: Earth Probe 8000
SAMPLING METHOD: NA
PIPE MATERIAL: Sch 40 PVC
PIPE SIZE: 1" OD
SCREEN LENGTH: 10 ft
DRILLING FLUID:
Riser: Flush mounted

PAGE 1 of 1

Depth	Sample No./ Interval	Blow Cnts (per 6")	Well/ Screen Install	Rec. Length (inches)	PID (ppm)	Water Table	Field Classification	Stratigraphic Description
0 ft					∅		NA	NA
	NA	NA		NA				
5 ft					∅	▽ 6 ft		
10 ft			Bottom 10 ft					
15 ft								
20 ft								
25 ft								
30 ft								
35 ft								

TEMPORARY WELL/PIEZOMETER GEOLOGIC AND INSTALLATION LOG

METCALF & EDDY, INC.
30 Harvard Mill Square
Wakefield, MA 01880
(617) 246-5200

SITE LOCATION
Standard Times Field
New Bedford, MA

BORING/WELL ID
GW-02RE

DRILL CONTRACTOR: GeoTek
DRILLER: J. Bell
ENG/GEO: B. Wyskowski
START DATE: 11/1/99
FINISH DATE: 11/1/99
DVPMT ~~SAMPLING~~ METHOD: NONE

DRILLING METHOD: Direct Push
DRILL RIG: Earth Probe 2000
SAMPLING METHOD: NA
PIPE MATERIAL: Sch 40 PVC
PIPE SIZE: 1" OD
SCREEN LENGTH: 8 ft
DRILLING FLUID: NA
RISER: Flush mounted

PAGE 1 of 1

Depth	Sample No./ Interval	Blow Cnts (per 6")	Well/ Screen Install	Rec. Length (inches)	PID (ppm)	Water Table	Field Classification	Stratigraphic Description
0 ft					Ø		SUDAN IV-neg	
	NA	NA		NA				
5 ft						▽	5.2 ft	
			Bottom					
10 ft			8 ft					
15 ft								
20 ft								
25 ft								
30 ft							Notes: No visible staining of soils on rod	
35 ft								

TEMPORARY WELL/PIEZOMETER GEOLOGIC AND INSTALLATION LOG

METCALF & EDDY, INC.
30 Harvard Mill Square
Wakefield, MA 01880
(617) 246-5200

SITE LOCATION
Standard Times Field
New Bedford, MA 02750

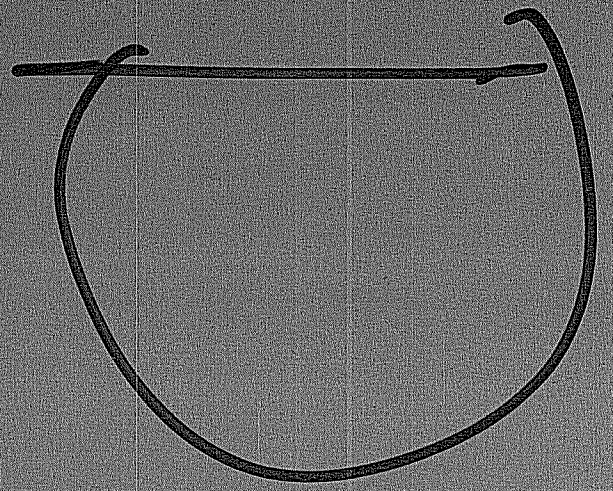
BORING/WELL ID
GW-04RE

DRILL CONTRACTOR: GeoTek
DRILLER: W. Bell
ENG/GEO: B Wiskowski
START DATE: 11/1/99
FINISH DATE: 11/1/99
~~SAMPLING~~ DVPMT METHOD: none

DRILLING METHOD: Direct Push
DRILL RIG: Earth Probe 2000
SAMPLING METHOD: NA
PIPE MATERIAL: Sch 40 PVC
PIPE SIZE: 1" OD
SCREEN LENGTH: 8.5 ft
DRILLING FLUID: NA
Riser: Flush Mounted

PAGE 1 of 1

Depth	Sample No./ Interval	Blow Cnts (per 6")	Well/ Screen Install	Rec. Length (inches)	PID (ppm)	Water Table	Field Classification	Stratigraphic Description
0 ft								
	NA	NA		NA		ϕ	SUDAN IV Neg	
5 ft								
						▽ 5.9 ft		
10 ft			bottom 8.5 ft					
15 ft								
20 ft								
25 ft								
30 ft								
35 ft							No visible staining of soils or rock	



APPENDIX D. WELL SAMPLING DATA SHEETS

E

APPENDIX E. DATA VALIDATION MEMORANDA

TABLE D-1. FIELD PARAMETERS - STANDARD TIMES FIELD - FALL 1999

LOCATION ID	SAMPLING DATE	FLOW RATE		pH		ORP		TEMPERATURE		SPECIFIC CONDUCTIVITY		DISSOLVED OXYGEN		TURBIDITY	
		INITIAL	FINAL			INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
		(ml/min)	(ml/min)	INITIAL	FINAL	(mV)	(mV)	(°C)	(°C)	(µmhos/cm)	(µmhos/cm)	(mg/l)	(mg/l)	(NTU)	(NTU)
GW-01	30-Sep-99	400	400	6.52	6.55	-101	-243	18.01	18.29	18931	16129	1.60	0.62	167	2.68
GW-02	30-Sep-99	230	240	6.72	6.70	-72.7	-69.7	17.54	17.22	854	839	0.90	0.71	168	158
GW-02RE	02-Nov-99	80	NM	6.73	6.83	-487	-225	16.62	15.07	533	541	4.02	4.16	170	175
GW-03	30-Sep-99	NM	NM	8.14	NM	-69.9	NM	18.05	NM	479	NM	3.95	NM	898	NM
GW-04	30-Sep-99	220	NM	7.25	6.09	-77.4	-51.5	15.90	15.69	463	431	1.08	0.42	1355	NM
GW-04RE	02-Nov-99	<50	<50	6.97	7.20	86.5	67.1	17.80	16.80	640	614	7.02	8.00	30	16

NOTES:

ORP - Oxidation-Reduction Potential

NTU - Nephelometric Turbidity Unit

MONITORING WELL SAMPLING WORKSHEET

Job Name: Brownfields Std Times Job No.: 020655 0002 Samplers: M Gallagher

Well ID: GW01 Date Sampled: 9/30/99 Arrival Time: 1130 Departure Time: 1330

Well secure upon arrival? (Yes) No PID Readings ppm: 0.0 (Breathing Zone) 0.0 (Well Headspace)

Well Diameter _____ inches - 12 = _____ ft dia.

Depth of well from T.O.C.: _____ ft Depth of well from T.O.P.C.: _____ ft

Depth of water from T.O.C.: 3.15 ft Depth of water from T.O.P.C.: _____ ft

Feet of standing water _____ ft Feet of standing water _____ ft

Volume of standing water _____ gal Volume of standing water _____ gal

Purging Method peristaltic Purge Time Start 1150 End 1230

	Time	Water Level (feet)	pH	Eh (mV)	Sp. Cond. (µS/cm)	Temp (°C)	DO (mg/l)	Turbidity (NTU)	Flow Rate (ml/min)
Initial Reading	1155	3.15	6.52	-100.7	18931	18.01	1.60	167	400
Final Reading	1325	3.15	6.55	-243	16129	18.29	0.62	2.68	400

Sample Collection: Time Start: 1230 End: 1320 Samples Preserved: (Yes) No

Sample Characteristics (circle all applicable)

Describe odor:	none	sulfide	fishy	musty	petroleum		_____
Describe color:	colorless	black	brown	orange	red		_____
Describe appearance:	turbid	silty	sand	clay	floaters	sheen	_____
	clear	multiphase	foaming	slimy	algae		_____

Organic Layer? None Length? — Floating or Sinking or Other? —

Comments _____

Refer to page _____ of the corresponding field log book.

Metcalf & Eddy, Inc.
30 Harvard Mill Square
Wakefield, MA 01990
(781) 246-5200

M&E AQUA ALLIANCE

MONITORING WELL SAMPLING WORKSHEET (ADDITIONAL PAGES)

Proj. Name: Brwnfld Std Times Job No.: 020655-0002 Samplers: M Gallagher

Well ID: GW01 Date Sampled: 9/30/99

Time (military)	Water Level (feet)	pH	ORP (mv)	S Conductance (µmhos/cm)	Temp (°C)	DO (mg/l)	Turbidity (NTU)	Flow Rate (ml/min)
1200	3.15	6.52	-100.7	~~158~~ 17601	18.01	1.60	83.2	400
1205	3.15	6.50	-135.1	16270	18.24	0.86	6.73	400
1208	3.15	6.50	-157.9	16102	18.27	0.46	4.17	400
1211	3.15	6.50	-167.3	15980	18.27	0.38	3.06	400
1214	3.15	6.49	-177.4	15968	18.25	0.33	2.66	400
1217	3.15	6.49	-182.9	15928	18.28	0.32	2.26	400
1220	3.15	6.49	-190.9	15870	18.26	0.32	2.17	400
1223	3.15	6.49	-199.4	15807	18.25	0.31	2.20	400
1226	3.15	6.49	-208.1	15797	18.27	0.31	2.06	400

MONITORING WELL SAMPLING WORKSHEET

Job Name: Brunfeld Std Times Job No.: 020655-0002 Samplers: DSt Mne

Well ID: ~~GW08~~ DS GW02 Date Sampled: 9/30/99 Arrival Time: 1340 Depart Time: 1630

Well secure upon arrival? Yes No PID Readings from: 0.0 Breathing Zone 0.0 Well Headspace

Well Diameter _____ inches ÷ 12 = _____ ft dia.

Depth of well from T.O.C. _____ ft Depth of well from T.O.P.V.C. _____ ft

Depth of water from T.O.C. 5.85 ft Depth of water from T.O.P.V.C. _____ ft

Feet of standing water _____ ft Feet of standing water _____ ft

Volume of standing water _____ gal Volume of standing water _____ gal

Purging Method _____ Purge: Time Start _____ End _____

	Time	Water Level feet	pH	Eh mV	Sp. Cond. µS/cm	Temp °C	DO mg/l	Turbidity NTU	Flow Rate ml/min
Initial Reading	1400	6.55	6.72	-72.7	854	17.54	0.90	168.3	230
Final Reading	1604	6.70	6.70	-69.7	839	17.22	0.71	158.3	240

Sample Collection: Time Start: 1500 End: 1600 Samples Preserved: Yes No

Sample Characteristics (circle all applicable)

Describe odor:	none	sulfide	fishy	musty	petroleum		
Describe color:	colorless	black	brown	orange	red		
Describe appearance:	turbid	silty	sand	clay	floaters	sheen	
	clear	multiphase	foaming	slimy	algae		

Organic Layer? None Length? — Floating or Sinking or Other? —

Comments test papers neg

Refer to page _____ of the corresponding field log book.

MONITORING WELL SAMPLING WORKSHEET (ADDITIONAL PAGES)

Job Name: Brwnflds STF Job No.: 020635 Samplers: DSTOnega

Well ID: ~~GW08 01 STF 05~~ GW02 Date Sampled: 9/30/99

Time (military)	Water Level (feet)	✓ pH	✓ Eh (mv)	✓ Conductivity (µs/cm)	✓ Temp (°C)	DO (mg/l)	Turbidity (NTU)	Flow Rate (ml/min)
14:08	6.60	6.65	-66.3	856	17.26	0.57	138.1	235
14:13	6.60	6.64	-64.5	857	17.06	0.48	123.2	240
14:18	6.64	6.62	-62.8	854	16.93	0.43	118.9	240
14:24	6.64	6.61	-61.6	852	16.88	0.43	117.6	240
14:30	6.64	6.61	-61.2	850	16.83	0.39	118.9	240
14:35	6.64	6.60	-60.4	849	16.87	0.39	125.3	240
14:40	6.65	6.61	-60.1	847	16.85	0.36	130.3	245
14:45	6.65	6.62	-59.6	846	17.09	0.42	122.3	245
14:50	6.65	6.61	-59.5	846	17.03	0.41	119.5	246

Site Name: BTSA Sites
Site Location: STF

Title: Draft Generic BTSA SAP
Revision No.: 0
Submitted Date: June 1999

MONITORING WELL SAMPLING WORKSHEET

Job Name: B/E - STF Job No.: 020655-0002 Samplers: NT/CL

Well ID: ~~WP-03RE~~ DS Date Sampled: 11/2/99 Arrival Time: 0830 Depart. Time: 1330

~~Samples~~ GW-02RE

Well secure upon arrival? Yes / No PID Readings (ppm) Ø Breathing Zone Ø Well Headspace

Well Diameter: _____ inches ÷ 12 = _____ ft (dia)

Depth of well from T.O.C. _____ ft Depth of well from T.O.PVC. _____ ft

Depth of water from T.O.C. _____ ft Depth of water from T.O.PVC 4.83' ft

Feet of standing water _____ ft Feet of standing water _____ ft

Volume of standing water _____ gal Volume of standing water _____ gal

Purging Method Peristaltic Purge: Time Start * End *

	Time	Water Level (feet)	pH	ORP (mV)	Sp. Cond. (µs/cm)	Temp (°C)	DO (mg/l)	Turbidity (NTU)	Flow Rate (ml/min)
Initial Reading	11.01	4.77	6.73	-487	533	16.62	4.02	170	80 ml/min
Final Reading	1457	230	6.83	-225	541	15.07	4.16	175	—

Sample Collection: Time Start: 1110 End: 1455 Samples Preserved: Yes / No

Sample Characteristics (circle all applicable)

Describe odor:	none	sulfide	fishy	musty	petroleum		
Describe color:	colorless	black	brown	orange	red		
Describe appearance:	turbid	silty	sand	clay	floaters	sheen	
	clear	multiphase	foaming	slimy	algae		

Organic Layer? _____ Length? _____ Floating or Sinking or Other? _____

Comments Sample IDs ~~WP-3RE~~ GW-02RE
Field Dup for VOH, EPH, ~~metals~~ PP GW15-02RE @ 1910

Development:
* DRAWDOWN COULD NOT BE MAINTAINED AT 80 ML/MIN. ALLOWED WELL TO RECHARGE REFER 45 MINUTES of DEVELOPMENT
1 HOUR FOR RECHARGE

Refer to page _____ of the corresponding field log book.

FIGURE C-2. MONITORING WELL SAMPLING WORKSHEET

Filled VPH, VPH FD
1/2 l EPH - allowed to recharge
withdrew 1 1/2 l, allowed to recharge 15 min, etc, etc
1200 -

MONITORING WELL SAMPLING WORKSHEET

Job Name: Brownfields Std Times Job No.: 020655-0002 Samplers: M Gallagher

Well ID: GW03 Date Sampled: 9/30/99 Arrival Time: 1030 Departure Time: 1230

Well secure upon arrival? Yes No PID Readings ppm: 0.0 (Breathing Zone) 0.0 (Well Headspace)

Well Diameter _____ inches - ID = _____ ft dia.

Depth of well from T.O.C. _____ ft Depth of well from T.O.P.I.D. _____ ft

Depth of water from T.O.C. 7.31 ft Depth of water from T.O.P.I.D. _____ ft

Feet of standing water _____ ft Feet of standing water _____ ft

Volume of standing water _____ gal Volume of standing water _____ gal

Purging Method peristaltic Purge: Time Start 1055 End 1105

	Time	Water Level feet	pH	Eh mV	Sp. Cond. us/cm	Temp °C	DO mg/l	Turbidity NTU	Flow Rate l/min
Initial Reading	11:00	7.31	8.14	-69.9	479	18.05	3.95	898	NM
Final Reading									

Sample Collection: Time Start 1105 End: 1145 Samples Preserved? Yes No

Sample Characteristics (circle all applicable)

Describe odor:	none	sulfide	fishy	musty	petroleum		_____
Describe color:	colorless	black	brown	orange	red		_____
Describe appearance:	turbid	silty	sand	clay	floaters	sheen	_____
	clear	multiphase	foaming	slimy	algae		_____

Organic Layer? NONE Length? — Floating or Sinking or Other? —

Comments No recharge sampled immediately
No 2nd page

Refer to page _____ of the corresponding field log book.

MONITORING WELL SAMPLING WORKSHEET

Job Name: Brumtld Std Tmco Job No.: 020655-0002 Samplers: D Ftm

Well ID: ~~GW02~~ 05 Date Sampled: 9/30/99 Arrival Time: 1030 Depart. Time: 1320

GW04

Well secure upon arrival? (Yes) No PID Readings (ppm): 0.0 (Breathing Zone) 0.0 (Well Headspace)

Well Diameter _____ inches - PID = _____ ppm dia.

Depth of well from T.O.C. _____ ft Depth of well from T.O.P.V.C. _____ ft

Depth of water from T.O.C. 6.15 ft Depth of water from T.O.P.V.C. _____ ft

Feet of standing water _____ ft Feet of standing water _____ ft

Volume of standing water _____ gal Volume of standing water _____ gal

Purging Method peristaltic Purge Time Start 1100 End 1150

	Time	Water Level feet	pH	Eh mV	Sp. Cond. µS/cm	Temp °C	DO mg/l	Turbidity NTU	Flow Rate L/min
Initial Reading	1100	6.15	7.25	-77.4	463	15.90	1.08	1355	220
Final Reading	1305	6.41	6.09	-51.5	431	15.69	0.42	NM	NM

Sample Collection: Time Start 1200 End: 1300 Samples Preserved: (Yes) No

Sample Characteristics (circle all applicable)

Describe odor:	(none)	sulfide	fishy	musty	petroleum		_____
Describe color:	colorless	black	(brown)	orange	red		_____
Describe appearance:	(turbid)	silty	sand	clay	floaters	sheen	_____
	clear	multiphase	foaming	slimy	algae		_____

Organic Layer? None Length? _____ Floating or Sinking or Other? _____

Comments test papers neg

Refer to page _____ of the corresponding field log book.

Metcalf & Eddy, Inc.
30 Harvard Mill Square
Wakefield, MA 01990
(781) 246-5200

M&E AQUA ALLIANCE

MONITORING WELL SAMPLING WORKSHEET (ADDITIONAL PAGES)

Proj. Name: Brunt/F Std Time Job No.: 020644-0002 Samplers: DSTMJ

Well ID: ~~GW02~~ DS GW04 Date Sampled: 9/30/99

Time (military)	Water Level (feet)	pH	ORP (mv)	Conductance (µmhos/cm)	Temp (°C)	DO (mg/l)	Turbidity (NTU)	Flow Rate (ml/min)
1110	6.15	6.23	-64.0	427	15.67	0.33	134.6	240
1120	6.30	6.12	-51.6	427	15.84	0.29	104.1	195
1130	6.37	6.07	-57.0	432	15.85	0.27	111.7	210
1140	6.37	6.05	-53.4	431	15.81	0.26	108.4	210
1145	6.37	6.04	-57.3	431	15.85	0.25	106.3	210
1150	6.37	6.04	-57.6	430	15.85	0.25	109.2	210

Metcalf & Eddy, Inc.
30 Harvard Mill Square
Wakefield, MA 01990
(781) 246-5200

M&E AQUA ALLIANCE

MONITORING WELL SAMPLING WORKSHEET

Proj. Name: B/E - STF Job No.: 020655.0002 Samplers: NT

Well ID: ~~MW 2 RE~~ DS Date Sampled: 11/2/99 Arrival Time: 1130 Depart. Time: 1615

GW-04 RE

Well secure upon arrival? Yes / No PID Readings (ppm) Ø Breathing Zone Ø Well Headspace SLIGHT SHEEN + FUEL ODOR IN pump DISCHARGE BUCKET

Well Diameter: 1 inches ÷ 12 = _____ ft (dia)

Depth of well from T.O.C. 7.8 ft (ASINK DEEP from) Depth of well from T.O.PVC. 7.8 ft

Depth of water from T.O.C. 5.13 ft Depth of water from T.O.PVC 5.13 ft

Feet of standing water _____ ft Feet of standing water _____ ft

Volume of standing water _____ gal Volume of standing water _____ gal

Purging Method Low Flow Purge: Time Start 11:40 End 12:45 (INTERMITTENT - NEVER REACHED EQUAL FLOW)

	Time	Water Level (feet)	pH	ORP (mV)	Sp. Cond. (µmhos/cm)	Temp (°C)	DO (mg/l)	Turbidity (NTU)	Flow Rate (ml/min)
Initial Reading	1245	7'	6.97	86.5	640	17.8	7.02	30	<50
Final Reading	1500	6.8'	7.2	67.1	614	16.8	8.0	16.0	<50

Sample Collection: Time Start: 1300 End: 1530 Samples Preserved: Yes / No

Sample Characteristics (circle all applicable)

Describe odor:	none	sulfide	fishy	musty	petroleum	SLIGHT
Describe color:	colorless	black	brown	orange	red	— MOSTLY CLEAR AFTER INITIAL ~~PURGE~~
Describe appearance:	turbid	silty	sand	clay	floaters	sheen
	clear	multiphase	foaming	slimy	algae	SLIGHT FILM

Organic Layer? _____ Length? _____ Floating or Sinking or Other? _____

Comments Sample ID GW-08RE

+ DRAWDOWN COULD NOT BE MAINTAINED AT 80 ml/min, WELL ALLOWED TO RECHARGE BETWEEN SAMPLES

M&E
AQUA ALLIANCE

MEMORANDUM

PROJECT NO:	J-020655-0002-005	**DATE:**	December 17, 1999
TO:	Standard Times Field Site File (BTSA)	**OFFICE:**	Wakefield
FROM:	L. Kulju Krowitz FLK for	**COMPANY:**	Metcalf & Eddy
REVIEWED BY:	C. Lapite CL		
CC:	B. Wyskowski, N. Thurber (memo only)		

SUBJECT: Limited QC Review/Modified Tier II-Like Review
Review of MADEP VPH and EPH Analytical Results
Woods Hole Group, Raynham, Massachusetts
ETR Number 43026

On September 28, 1999, 12 soil samples and 1 trip blank sample were collected at the Standard Times Field BTSA site, located in New Bedford, Massachusetts by Metcalf & Eddy field personnel. The sampling was performed as part of the BTSA RAC WA #043-SISI-01ZZ. The samples were submitted to Woods Hole Group laboratory, located in Raynham, Massachusetts for the analysis of MADEP volatile petroleum hydrocarbons (VPH) and extractable petroleum hydrocarbons (EPH). All samples were received by the laboratory on September 29, 1999. The data package was received in the M&E Office on October 16, 1999. Included in Attachment I is a copy of the chain-of-custody (COC) record.

M&E reviewed the data in accordance with the EPA-approved Final Field Task Work Plan for the site and the guidance received from EPA Work Assignment Manager, Mr. James Byrne, in a September 17, 1999 letter to M&E Work Assignment Manager, Barb Wyskowski. The data review included:

*	•	Preservation and Technical Holding Times
NA	•	Initial and Continuing Calibration
	•	Blanks
*	•	Surrogate Compounds
*	•	Matrix Spike (MS)/Matrix Spike Duplicates (MSD)
*	•	Field Duplicates
*	•	Laboratory Duplicates
*	•	Laboratory Fortified Blank (LFB) and/or Laboratory Control Sample (LCS)
*	•	Fractionation Check Solution for EPH

*	=	All criteria met for this parameter
NA	=	Not applicable and/or no information was provided by the laboratory
NR	=	Not requested

Included in Attachment II are the result summary sheets, annotated with qualifiers, if necessary, as detailed in this memorandum.

p:/ne/brwnflds/stantime/43026vph.wpd

Blank Analysis Results

A review of laboratory blank analysis results indicate the presence of laboratory contamination for the compounds listed below. Positive sample results reported with concentrations less than five times the highest blank concentration for that compound are considered to be false positive results. However, the VPH range C_9-C_{12} aliphatics was not detected in any of the samples in this SDG, therefore, no qualifications were applied to the data.

Compound	Blank Action Limit (µg/kg)	Action
C_9-C_{12} aliphatics	26,500	none, this VPH range was not detected in the samples

EPA-NE
Data Validation Worksheet Cover Page - Page 1

Site Name Standard Times Field
Reference No. J-020455-0002-005

REGION I ORGANIC DATA VALIDATION

The following data package has been validated:

Lab Name Woods Hole Group
Case/Project No. ETR # 43036
SDG No. Lab ID # 43036-1
No. of Samples/Matrix 12 Soil + 1TB

SOW/Method No. MADEP VPH/EPH
Sampling Date(s) 9/28/99
Shipping Date(s) 9/29/99
Date Rec'd by lab ↓

Traffic Report Sample Nos. SS0301STF, SS0301STFDUP, SS0401STF, SS0402STF, SS0501STF, SS0502STF, SS0601STF, SS0701STF, SS0801STF, SS0901STF SSK0901STF, SS1001STF, SS0201STF
Trip Blank No. SSTB0101 (VPH only)
Equipment Blank No. none
Bottle Blank No. none
Field Duplicate Nos. SS0901STF, SSK0901STF
PES Nos. none

The Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, revision 12/96 was used to evaluate the data and/or approved modifications to the EPA-NE Functional Guidelines were used to evaluate the data and are attached to this cover page: (attach modified criteria from EPA approved QAPjP or amendment to QAPjP).

A Tier II or Tier III evaluation was used to validate the data (circle one). If a Tier II validation with a partial Tier III was used, then identify samples, parameters, etc. that received partial Tier III validation

modified Tier I / Tier II

The data were evaluated based upon the following parameters:

- Cooler T = 4°C
- samples covered in method

ok - Overall Evaluation of Data
ok - Data Completeness (CSF Audit - Tier I)
ok - Preservation & Technical Holding Times
NA - GC/MS & GC/ECD Instrument Performance Check
NS - Initial & Continuing Calibrations
* - Blanks
ok - Surrogate Compounds
NA - Internal Standards
ok - Matrix Spike/Matrix Spike Duplicate
ok - Fract. Check Soln
ok - Field Duplicates
ok - Sensitivity Check (LCS)
NR - PE Samples/Accuracy Check
NE Target Compound Identification
NE Compound Quantitation and Reported
NE Quantitation Limits
NA - TICs
NA - Semivolatile and Pesticide/PCB Cleanup
NE - System Performance

Region I Definitions and Qualifiers:

NR - not requested
* QC issues see attached worksheet page(s)
NS - not supplied
NA - not applicable for method and/or modified Tier I/II
NE - not evaluated

A - Acceptable Data
J - Numerical value associated with compound is an estimated quantity.
R - The data are rejected as unusable. The R replaces the numerical value or sample quantitation limit.
U - Compound not detected at that numerical sample quantitation limit.
UJ - The sample quantitation limit is an estimated quantity.
TB, BB, EB - Compound detected in aqueous trip blank, aqueous bottle blank, or aqueous equipment blank associated with soil/sediment samples.

Validator's Name Lisa Kulp Kromm Company Name Metcalf & Eddy Phone Number 781-246-5200

Date Validation Started 12/10/99 Date Validation Completed 10/4/99

EPA-NE - Data Validation Worksheet
VOA/SV - Pest/PCB-V-A

V. BLANK ANALYSIS

List the blank contamination below.

Concentration Level: Low

Sampler: D. M. Orge Company: Metcalf + Eddy

Contacted: Yes No Date:

1. Laboratory: Method, Storage and Instrument Blanks

Date Extracted	Date Analyzed	Parameter/ Matrix	Sample No. (Blank Type)	Instrument/ Column	Compound	Conc. (units)
–	10/8/99	VPH/soil	Method Blank	–	C_9-C_{12} Aliphatics	5300 ug/kg
	10/12/99	no VPH detected			Unadjusted C_9-C_{12} aliph.	5300 ug/kg

2. Field: Equipment (Rinsate), Trip and Bottle Blanks

Date Extracted	Date Analyzed	Parameter/ Matrix	Sample No. (Blank Type)	Instrument/ Column	Compound	Conc. (units)
	no VPH detected in TB.					

Validator: Susan Kugelbrown Date: 12/11/99

EPA-NE - Data Validation Worksheet
VOA/SV - Pest/PCB-V-B

3. Blank Actions - List the maximum concentrations of blank compounds.

Compound	Type of Blank	Date Blank Sampled/Originated	Max. Conc. (units)	Action Level (units)	Sample QL ug/kg	Samples Affected	Action
C_9-C_{12} aliphatics	MB	10/8/99	5300 ug/kg	26500 ug/kg	5200	~~All~~ none all ND LLK 12/11/99	—

Comments: _____

Validator: [signature] Date: 12/11/99

Attachment I

Chains-of-Custody

43026

M&E Metcalf & Eddy

CHAIN OF CUSTODY FORM

Job/Project Name: Standard Times
Job/Project Location: New Bedford, MA
Job/Project Number: 0281055-0007
Samplers: (Signatures) PH MGL
Recorder: (Signature)
Date: 9/29/99
Lab (Samples Sent To): Woodshole

	SAMPLING Date	SAMPLING Time	SAMPLE NUMBER	~~SAMPLE LOCATION~~	MATRIX Water	MATRIX Soil	MATRIX Product	COMPOSITE/GRAB	PRESERVATIVE (Y/N)	ANALYSIS REQUESTED VPH	ANALYSIS REQUESTED EPH	Total # Bottles	COMMENTS
43026-1	9/28/99	15:20	SS0301STF			X		G	Y	X	X	2	
-2	9/28/99	14:50	SS0401STF			X		G	Y	X	X	2	
-3		1400	SS0402STF			X		G	Y	X	X	2	
-4	9/29/99	~~13:40~~ 12:55	SS0501STF			X		G	Y	X	X	2	
-5		13:40	SS0502STF			X		G	Y	X	X	2	
-6		12:45	SS0601STF			X		G	Y	X	X	2	
-7		12:20	SS0701STF			X		G	Y	X	X	2	
-8		12:00	SS0801STF			X		G	Y	X	X	2	
-9		11:30	SS0901STF			X		G	Y	X	X	2	
-10		11:35	SSK0901STF			X		G	Y	X	X	2	Field Dup of SS0401STF
-11		11:00	SS1001STF			X		G	Y	X	X	2	
-12		10:15	SS0201STF			X		G	Y	X	X	2	

Relinquished By: (Signature)	Date:	Time:	~~Relinquished~~ Received By: (Signature)	Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)
DiTome	9/29/99	14:00	Ed Butler	Ed Butler	9/29/99	3:10	
Relinquished By: (Signature)	Date:	Time:	Relinquished By: (Signature)	Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)
Relinquished By: (Signature)	Date:	Time:	Received for Lab By: (Signature)	Date:	Time:		

Comments: Pres:
VPH: methanol + ice
EPH: ice
methanol sample: ice

Method of Shipment: Courier

Distribution: **Original** to Lab. **Copy 1** to Field Files, **Copy 2** to Project Manager

Form 274 (Rev. 5/89)

2 of 2

43026

M&E Metcalf & Eddy

CHAIN OF CUSTODY FORM

Job/Project Name: Standard Times
Job/Project Location: New Bedford MA
Job/Project Number: 0206550007

Samplers: (Signatures) DStMge
Recorder: (Signature) DStMge
Date: 9/29/99

Lab (Samples Sent To): Woods Hole

SAMPLING Date	SAMPLING Time	SAMPLE NUMBER	SAMPLE LOCATION	MATRIX Water	MATRIX Soil	MATRIX Methanol			COMPOSITE/GRAB	PRESERVATIVE (Y/N)	ANALYSIS REQUESTED VPH								Total #	COMMENTS
9/28/99	10:00	SSTB0101				+			G	Y	+								1	Trip Blank
		Temperature	Blank																	

Relinquished By: (Signature)	Date:	Time:	Relinquished By: (Signature)	Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)
DStMge	9/29/99	14:00	Received Ed Butler	Ed Butler	9/29/99	3:10	[illegible]
Relinquished By: (Signature)	Date:	Time:	Relinquished By: (Signature)	Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)
Relinquished By: (Signature)	Date:	Time:	Received for Lab By: (Signature)	Date:	Time:	Comments:	
						Preserve: ~~TCL~~ DS 9/29/99 see previous page	

Method of Shipment: courier

Distribution: **Original** to Lab. **Copy 1** to Field Files, **Copy 2** to Project Manager

Form 274 (Rev. 5/89)

Attachment II

Sample Result Summary Sheets

Woods Hole Group
Environmental Laboratories
375 Paramount Drive • Suite B
Raynham, MA 02767-5154 • USA
Phone: 508-822-9300
Fax: 508-822-3288

VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS
MADEP-VPH-98-1 Rev. 0

ETR Number: 43026

Metcalf & Eddy

Lab ID Number: 43026-13

Project: Standard Times

Associated Blank: VS1007B2

Sample ID: SSTB0101			09/28/99 @1000(MeOH)		
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
9/29/1999	25 g	100%	10/8/1999	1	AL

VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/Kg

Analyte	Amount	Qualifier
C_5-C_8 Aliphatics [1,2]	18000	U
C_9-C_{12} Aliphatics [1,3]	5200	U
C_9-C_{10} Aromatics [1]	10000	U
Unadjusted C_5-C_8 Aliphatics[1]	18000	U
Unadjusted C_9-C_{12} Aliphatics[1]	5200	U

No results
[illegible] for [illegible]
12/17/99

TARGETED VPH ANALYTES in µg/Kg

Analyte	Elution Range	Amount	Qualifier
MTBE	C_5 - C_8	260	U
Benzene	C_5 - C_8	260	U
Toluene	C_5 - C_8	780	U
Ethylbenzene	C_9 - C_{12}	260	U
m & p Xylene	C_9 - C_{12}	520	U
o-Xylene	C_9 - C_{12}	520	U
Naphthalene	N/A	520	U

SURROGATE RECOVERY

	PID		FID	
Surrogate	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	116%	70%-130%	120%	70%-130%

[1] *Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.*

[2] *C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.*

[3] *C_9-C_{12} Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons.*

U = Analyzed but not detected.

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Fax: 508-822-3288

VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS
MADEP-VPH-98-1 Rev. 0

ETR Number: 43026

Metcalf & Eddy

Lab ID Number: 43026-12

Project: Standard Times

Associated Blank: VS1007B2

Sample ID: SS0201STF			09/28/99 @1015(Soil)		
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
9/29/1999	23.98 g	91%	10/8/1999	1	AL

VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/Kg

Analyte	Amount	Qualifier
C_5-C_8 Aliphatics [1,2]	21000	U
C_9-C_{12} Aliphatics [1,3]	5900	U
C_9-C_{10} Aromatics [1]	12000	U
Unadjusted C_5-C_8 Aliphatics[1]	21000	U
Unadjusted C_9-C_{12} Aliphatics[1]	5900	U

N, calcs conf. LKK 12/17/99

TARGETED VPH ANALYTES in µg/Kg

Analyte	Elution Range	Amount	Qualifier
MTBE	C_5 - C_8	300	U
Benzene	C_5 - C_8	300	U
Toluene	C_5 - C_8	890	U
Ethylbenzene	C_9 - C_{12}	300	U
m & p Xylene	C_9 - C_{12}	590	U
o-Xylene	C_9 - C_{12}	590	U
Naphthalene	N/A	590	U

SURROGATE RECOVERY

	PID		FID	
Surrogate	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	105%	70%-130%	108%	70%-130%

[1] *Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.*

[2] *C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.*

[3] *C_9-C_{12} Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons.*

U = Analyzed but not detected.

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Fax: 508-822-3288

VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS
MADEP-VPH-98-1 Rev. 0

ETR Number: 43026

Metcalf & Eddy

Lab ID Number: 43026-1

Project: Standard Times

Associated Blank: VS1012B1

Sample ID: SS0301STF			09/28/99 @1520(Soil)		
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
9/29/1999	22.48 g	84%	10/12/1999	1	AL

No errors
cm for LKK
12/17/99

VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/Kg

Analyte	Amount	Qualifier
C_5-C_8 Aliphatics [1,2]	24000	U
C_9-C_{12} Aliphatics [1,3]	6900	U
C_9-C_{10} Aromatics [1]	14000	U
Unadjusted C_5-C_8 Aliphatics[1]	24000	U
Unadjusted C_9-C_{12} Aliphatics[1]	6900	U

TARGETED VPH ANALYTES in µg/Kg

Analyte	Elution Range	Amount	Qualifier
MTBE	C_5 - C_8	350	U
Benzene	C_5 - C_8	350	U
Toluene	C_5 - C_8	1000	U
Ethylbenzene	C_9 - C_{12}	350	U
m & p Xylene	C_9 - C_{12}	690	U
o-Xylene	C_9 - C_{12}	690	U
Naphthalene	N/A	690	U

SURROGATE RECOVERY

	PID		FID	
Surrogate	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	77%	70%-130%	88%	70%-130%

[1] *Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.*

[2] *C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.*

[3] *C_9-C_{12} Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons.*

U = Analyzed but not detected.

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Fax: 508-822-3288

VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS
MADEP-VPH-98-1 Rev. 0

ETR Number: 43026

Metcalf & Eddy

Lab ID Number: 43026-2

Project: Standard Times

Associated Blank: VS1007B2

Sample ID: SS0401STF			09/28/99 @1450(Soil)		
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
9/29/1999	23.7 g	91%	10/8/1999	1	AL

No edits can for LSK 12/17/99

VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/Kg

Analyte	Amount	Qualifier
C_5-C_8 Aliphatics [1,2]	21000	U
C_9-C_{12} Aliphatics [1,3]	6000	U
C_9-C_{10} Aromatics [1]	12000	U
Unadjusted C_5-C_8 Aliphatics[1]	21000	U
Unadjusted C_9-C_{12} Aliphatics[1]	6000	U

TARGETED VPH ANALYTES in µg/Kg

Analyte	Elution Range	Amount	Qualifier
MTBE	C_5 - C_8	300	U
Benzene	C_5 - C_8	300	U
Toluene	C_5 - C_8	900	U
Ethylbenzene	C_9 - C_{12}	300	U
m & p Xylene	C_9 - C_{12}	600	U
o-Xylene	C_9 - C_{12}	600	U
Naphthalene	N/A	600	U

SURROGATE RECOVERY

	PID		FID	
Surrogate	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	106%	70%-130%	108%	70%-130%

[1] *Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.*

[2] *C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.*

[3] *C_9-C_{12} Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons.*

U = Analyzed but not detected.

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Phone: 508-822-9300
Fax: 508-822-3288

VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS
MADEP-VPH-98-1 Rev. 0

ETR Number: 43026

Metcalf & Eddy

Lab ID Number: 43026-3

Project: Standard Times

Associated Blank: VS1007B2

Sample ID: SS0402STF			09/28/99 @1400(Soil)		
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
9/29/1999	22.72 g	85%	10/8/1999	1	AL

VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/Kg

Analyte	Amount	Qualifier
C_5-C_8 Aliphatics [1,2]	24000	U
C_9-C_{12} Aliphatics [1,3]	6700	U
C_9-C_{10} Aromatics [1]	13000	U
Unadjusted C_5-C_8 Aliphatics[1]	24000	U
Unadjusted C_9-C_{12} Aliphatics[1]	6700	U

No echts
comp for LKK
12/17/99

TARGETED VPH ANALYTES in µg/Kg

Analyte	Elution Range	Amount	Qualifier
MTBE	C_5 - C_8	340	U
Benzene	C_5 - C_8	340	U
Toluene	C_5 - C_8	1000	U
Ethylbenzene	C_9 - C_{12}	340	U
m & p Xylene	C_9 - C_{12}	670	U
o-Xylene	C_9 - C_{12}	670	U
Naphthalene	N/A	670	U

SURROGATE RECOVERY

	PID		FID	
Surrogate	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	104%	70%-130%	108%	70%-130%

[1] *Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.*

[2] *C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.*

[3] *C_9-C_{12} Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons.*

U = Analyzed but not detected.

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VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS
MADEP-VPH-98-1 Rev. 0

ETR Number: 43026

Metcalf & Eddy

Lab ID Number: 43026-4

Project: Standard Times

Associated Blank: VS1007B2

No calcs
LM for LKK
12/17/99

Sample ID: SS0501STF			09/28/99 @1255(Soil)		
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
9/29/99	23.71 g	87%	10/8/99	1	AL

VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/Kg

Analyte	Amount	Qualifier
C_5-C_8 Aliphatics [1,2]	22000	U
C_9-C_{12} Aliphatics [1,3]	6300	U
C_9-C_{10} Aromatics [1]	13000	U
Unadjusted C_5-C_8 Aliphatics[1]	22000	U
Unadjusted C_9-C_{12} Aliphatics[1]	6300	U

TARGETED VPH ANALYTES in µg/Kg

Analyte	Elution Range	Amount	Qualifier
MTBE	C_5 - C_8	310	U
Benzene	C_5 - C_8	310	U
Toluene	C_5 - C_8	940	U
Ethylbenzene	C_9 - C_{12}	310	U
m & p Xylene	C_9 - C_{12}	630	U
o-Xylene	C_9 - C_{12}	630	U
Naphthalene	N/A	630	U

SURROGATE RECOVERY

	PID		FID	
Surrogate	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	103%	70%-130%	106%	70%-130%

[1] *Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.*

[2] *C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.*

[3] *C_9-C_{12} Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons.*

U = Analyzed but not detected.

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VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS
MADEP-VPH-98-1 Rev. 0

ETR Number: 43026

Metcalf & Eddy

Lab ID Number: 43026-5

Project: Standard Times

Associated Blank: VS1007B2

Sample ID: SS0502STF			09/28/99 @1340(Soil)		
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
9/29/1999	23.08 g	82%	10/8/1999	1	AL

No calcs
CR for LKK
12/17/99

VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/Kg

Analyte	Amount	Qualifier
C_5-C_8 Aliphatics [1,2]	24000	U
C_9-C_{12} Aliphatics [1,3]	6800	U
C_9-C_{10} Aromatics [1]	14000	U
Unadjusted C_5-C_8 Aliphatics[1]	24000	U
Unadjusted C_9-C_{12} Aliphatics[1]	6800	U

TARGETED VPH ANALYTES in µg/Kg

Analyte	Elution Range	Amount	Qualifier
MTBE	C_5 - C_8	340	U
Benzene	C_5 - C_8	340	U
Toluene	C_5 - C_8	1000	U
Ethylbenzene	C_9 - C_{12}	340	U
m & p Xylene	C_9 - C_{12}	680	U
o-Xylene	C_9 - C_{12}	680	U
Naphthalene	N/A	680	U

SURROGATE RECOVERY

	PID		FID	
Surrogate	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	101%	70%-130%	106%	70%-130%

[1] *Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.*

[2] *C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.*

[3] *C_9-C_{12} Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons.*

U = Analyzed but not detected.

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VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS
MADEP-VPH-98-1 Rev. 0

ETR Number: 43026

Metcalf & Eddy

Lab ID Number: 43026-6

Project: Standard Times

Associated Blank: VS1007B2

Sample ID: SS0601STF			09/28/99 @1245(Soil)		
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
9/29/1999	23.19 g	91%	10/8/1999	1	AL

No edits
CM for LKS
12/12/99

VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/Kg

Analyte	Amount	Qualifier
C_5-C_8 Aliphatics [1,2]	21000	U
C_9-C_{12} Aliphatics [1,3]	6100	U
C_9-C_{10} Aromatics [1]	12000	U
Unadjusted C_5-C_8 Aliphatics[1]	21000	U
Unadjusted C_9-C_{12} Aliphatics[1]	6100	U

TARGETED VPH ANALYTES in µg/Kg

Analyte	Elution Range	Amount	Qualifier
MTBE	C_5 - C_8	310	U
Benzene	C_5 - C_8	310	U
Toluene	C_5 - C_8	920	U
Ethylbenzene	C_9 - C_{12}	310	U
m & p Xylene	C_9 - C_{12}	610	U
o-Xylene	C_9 - C_{12}	610	U
Naphthalene	N/A	610	U

SURROGATE RECOVERY

	PID		FID	
Surrogate	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	106%	70%-130%	109%	70%-130%

[1] *Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.*

[2] *C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.*

[3] *C_9-C_{12} Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons.*

U = Analyzed but not detected.

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VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS
MADEP-VPH-98-1 Rev. 0

ETR Number: 43026

Metcalf & Eddy

Lab ID Number: 43026-7

Project: Standard Times

Associated Blank: VS1007B2

Sample ID: SS0701STF			09/28/99 @1220(Soil)		
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
9/29/1999	24.74 g	89%	10/8/1999	1	AL

No calcs on file 12/17/99

VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/Kg

Analyte	Amount	Qualifier
C_5-C_8 Aliphatics [1,2]	21000	U
C_9-C_{12} Aliphatics [1,3]	5900	U
C_9-C_{10} Aromatics [1]	12000	U
Unadjusted C_5-C_8 Aliphatics[1]	21000	U
Unadjusted C_9-C_{12} Aliphatics[1]	5900	U

TARGETED VPH ANALYTES in µg/Kg

Analyte	Elution Range	Amount	Qualifier
MTBE	C_5 - C_8	300	U
Benzene	C_5 - C_8	300	U
Toluene	C_5 - C_8	890	U
Ethylbenzene	C_9 - C_{12}	300	U
m & p Xylene	C_9 - C_{12}	590	U
o-Xylene	C_9 - C_{12}	590	U
Naphthalene	N/A	590	U

SURROGATE RECOVERY

	PID		FID	
Surrogate	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	103%	70%-130%	106%	70%-130%

[1] *Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.*

[2] *C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.*

[3] *C_9-C_{12} Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons.*

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VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS
MADEP-VPH-98-1 Rev. 0

ETR Number: 43026

Metcalf & Eddy

Lab ID Number: 43026-8

Project: Standard Times

Associated Blank: VS1007B2

Sample ID: SS0801STF			09/28/99 @1200(Soil)		
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
9/29/1999	23.6 g	97%	10/8/1999	1	AL

No edits CBR for LKK 12/13/99

VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/Kg

Analyte	Amount	Qualifier
C_5-C_8 Aliphatics [1,2]	20000	U
C_9-C_{12} Aliphatics [1,3]	5700	U
C_9-C_{10} Aromatics [1]	11000	U
Unadjusted C_5-C_8 Aliphatics[1]	20000	U
Unadjusted C_9-C_{12} Aliphatics[1]	5700	U

TARGETED VPH ANALYTES in µg/Kg

Analyte	Elution Range	Amount	Qualifier
MTBE	C_5 - C_8	280	U
Benzene	C_5 - C_8	280	U
Toluene	C_5 - C_8	850	U
Ethylbenzene	C_9 - C_{12}	280	U
m & p Xylene	C_9 - C_{12}	570	U
o-Xylene	C_9 - C_{12}	570	U
Naphthalene	N/A	570	U

SURROGATE RECOVERY

	PID		FID	
Surrogate	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	111%	70%-130%	115%	70%-130%

[1] *Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.*

[2] *C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.*

[3] *C_9-C_{12} Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons.*

U = Analyzed but not detected.

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VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS
MADEP-VPH-98-1 Rev. 0

ETR Number: 43026

Metcalf & Eddy

Lab ID Number: 43026-9

Project: Standard Times

Associated Blank: VS1007B2

Sample ID: SS0901STF			09/28/99 @1130(Soil)		
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
9/29/1999	24.51 g	91%	10/8/1999	1	AL

No adds on for LCS 12/17/99

VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/Kg

Analyte	Amount	Qualifier
C_5-C_8 Aliphatics [1,2]	20000	U
C_9-C_{12} Aliphatics [1,3]	5900	U
C_9-C_{10} Aromatics [1]	12000	U
Unadjusted C_5-C_8 Aliphatics[1]	20000	U
Unadjusted C_9-C_{12} Aliphatics[1]	5900	U

TARGETED VPH ANALYTES in µg/Kg

Analyte	Elution Range	Amount	Qualifier
MTBE	C_5 - C_8	290	U
Benzene	C_5 - C_8	290	U
Toluene	C_5 - C_8	880	U
Ethylbenzene	C_9 - C_{12}	290	U
m & p Xylene	C_9 - C_{12}	590	U
o-Xylene	C_9 - C_{12}	590	U
Naphthalene	N/A	590	U

SURROGATE RECOVERY

	PID		FID	
Surrogate	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	106%	70%-130%	110%	70%-130%

[1] *Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.*

[2] *C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.*

[3] *C_9-C_{12} Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons.*

U = Analyzed but not detected.

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VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS
MADEP-VPH-98-1 Rev. 0

ETR Number: 43026

Metcalf & Eddy

Lab ID Number: 43026-10

Project: Standard Times

Associated Blank: VS1007B2

Sample ID: SSK0901STF			09/28/99 @1135(Soil)		
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
9/29/1999	24.35 g	89%	10/8/1999	1	AL

VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/Kg

Analyte	Amount	Qualifier
C_5-C_8 Aliphatics [1,2]	21000	U
C_9-C_{12} Aliphatics [1,3]	6000	U
C_9-C_{10} Aromatics [1]	12000	U
Unadjusted C_5-C_8 Aliphatics[1]	21000	U
Unadjusted C_9-C_{12} Aliphatics[1]	6000	U

N. edwards
CRF for CSK
12/17/99

TARGETED VPH ANALYTES in µg/Kg

Analyte	Elution Range	Amount	Qualifier
MTBE	C_5 - C_8	300	U
Benzene	C_5 - C_8	300	U
Toluene	C_5 - C_8	900	U
Ethylbenzene	C_9 - C_{12}	300	U
m & p Xylene	C_9 - C_{12}	600	U
o-Xylene	C_9 - C_{12}	600	U
Naphthalene	N/A	600	U

SURROGATE RECOVERY

	PID		FID	
Surrogate	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	109%	70%-130%	114%	70%-130%

[1] *Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.*

[2] *C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.*

[3] *C_9-C_{12} Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons.*

U = Analyzed but not detected.

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VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS
MADEP-VPH-98-1 Rev. 0

ETR Number: 43026

Metcalf & Eddy

Lab ID Number: 43026-11

Project: Standard Times

Associated Blank: VS1007B2

Sample ID: SS1001STF			09/28/99 @1100(Soil)		
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
9/29/1999	23.42 g	96%	10/8/1999	1	AL

VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/Kg

Analyte	Amount	Qualifier
C_5-C_8 Aliphatics [1,2]	20000	U
C_9-C_{12} Aliphatics [1,3]	5800	U
C_9-C_{10} Aromatics [1]	12000	U
Unadjusted C_5-C_8 Aliphatics[1]	20000	U
Unadjusted C_9-C_{12} Aliphatics[1]	5800	U

No edits
cm for LKK
12/17/99

TARGETED VPH ANALYTES in µg/Kg

Analyte	Elution Range	Amount	Qualifier
MTBE	C_5 - C_8	290	U
Benzene	C_5 - C_8	290	U
Toluene	C_5 - C_8	860	U
Ethylbenzene	C_9 - C_{12}	290	U
m & p Xylene	C_9 - C_{12}	580	U
o-Xylene	C_9 - C_{12}	580	U
Naphthalene	N/A	580	U

SURROGATE RECOVERY

	PID		FID	
Surrogate	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	116%	70%-130%	118%	70%-130%

[1] *Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.*

[2] *C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.*

[3] *C_9-C_{12} Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons.*

U = Analyzed but not detected.

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ANALYTICAL REPORT
Extractable Petroleum Hydrocarbon (EPH) Analysis
MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy

Standard Times

ETR Number: 43026
Lab ID Number: 43026-1
Associated Blank: ES1004B1

Sample ID: SS0301STF :[ ]09/28/99 @1520(Soil)

Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
9/29/99	SOIL	10.36 g	84%	10/4/99	Aromatic:	10/8/99	1	TQ
					Aliphatic:	10/8/99	1	TQ

EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) in µg/Kg

Parameter	Amount	Qualifier
C9-C18 Aliphatics [1]	3500	U
C19-C36 Aliphatics [1]	4600	U
C11-C22 Aromatics [1,2]	23000	
Unadjusted C11-C22 Aromatics [1]	32000	

No calcs confirmed 12/17/99

TARGETED PAH ANALYTES in µg/Kg

Analyte	Amount	Qualifier
Naphthalene	580	U
2-Methylnaphthalene	580	U
Acenaphthylene	580	U
Acenaphthene	580	U
Fluorene	580	U
Phenanthrene	1500	
Anthracene	580	U
Fluoranthene	1600	
Pyrene	1500	
Benzo(a)anthracene	780	
Chrysene	850	
Benzo(b)fluoranthene	580	
Benzo(k)fluoranthene	770	
Benzo(a)pyrene	770	
Indeno(1,2,3-cd)pyrene [3]	820	
Dibenzo(a,h)anthracene [3]	820	
Benzo(g,h,i)perylene	580	U

SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	65	40% - 140%
	Ortho-terphenyl(OTP)	67	40% - 140%
Fractionation Surrogates	Biphenyl	80	40% - 140%
	2-Fluorobiphenyl	77	40% - 140%

1 Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.
2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
3 Values reported reflect their sum.
U Analyzed but not found.
* Surrogate value out of acceptable range.

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ANALYTICAL REPORT
Extractable Petroleum Hydrocarbon (EPH) Analysis
MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy

Standard Times

ETR Number: 43026
Lab ID Number: 43026-2
Associated Blank: ES1004B1

Sample ID: SS0401STF :[ ]09/28/99 @1450(Soil)

Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
9/29/99	SOIL	10.49 g	91%	10/04/99	Aromatic:	10/8/99	1	TQ
					Aliphatic:	10/8/99	1	TQ

EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) in µg/Kg

Parameter	Amount	Qualifier
C9-C18 Aliphatics [1]	3200	
C19-C36 Aliphatics [1]	50000	
C11-C22 Aromatics [1,2]	180000	
Unadjusted C11-C22 Aromatics [1]	270000	

No calcs
cm for USK
12/17/99

TARGETED PAH ANALYTES in µg/Kg

Analyte	Amount	Qualifier
Naphthalene	520	U
2-Methylnaphthalene	520	U
Acenaphthylene	520	U
Acenaphthene	520	U
Fluorene	570	
Phenanthrene	7800	
Anthracene	2100	
Fluoranthene	16000	
Pyrene	17000	
Benzo(a)anthracene	8600	
Chrysene	7400	
Benzo(b)fluoranthene	7700	
Benzo(k)fluoranthene	4600	
Benzo(a)pyrene	8200	
Indeno(1,2,3-cd)pyrene [3]	7500	
Dibenzo(a,h)anthracene [3]	7500	
Benzo(g,h,i)perylene	5300	

SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	62	40% - 140%
	Ortho-terphenyl(OTP)	67	40% - 140%
Fractionation Surrogates	Biphenyl	76	40% - 140%
	2-Fluorobiphenyl	73	40% - 140%

1 Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.
2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
3 Values reported reflect their sum.
U = Analyzed but not found.
* Surrogate value out of acceptable range.

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ANALYTICAL REPORT
Extractable Petroleum Hydrocarbon (EPH) Analysis
MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy

Standard Times

ETR Number: 43026
Lab ID Number: 43026-3
Associated Blank: ES1004B1

Sample ID: SS0402STF :[ ]09/28/99 @1400(Soil)

Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
9/29/99	SOIL	10.31 g	85%	10/04/99	Aromatic:	10/8/99	1	TQ
					Aliphatic:	10/8/99	1	TQ

EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) in µg/Kg

Parameter	Amount	Qualifier
C9-C18 Aliphatics [1]	3400	U
C19-C36 Aliphatics [1]	19000	
C11-C22 Aromatics [1,2]	120000	
Unadjusted C11-C22 Aromatics [1]	200000	

TARGETED PAH ANALYTES in µg/Kg

Analyte	Amount	Qualifier
Naphthalene	570	U
2-Methylnaphthalene	570	U
Acenaphthylene	570	U
Acenaphthene	570	U
Fluorene	570	U
Phenanthrene	6800	
Anthracene	1600	
Fluoranthene	13000	
Pyrene	13000	
Benzo(a)anthracene	6000	
Chrysene	5200	
Benzo(b)fluoranthene	5700	
Benzo(k)fluoranthene	5300	
Benzo(a)pyrene	5800	
Indeno(1,2,3-cd)pyrene [3]	7000	
Dibenzo(a,h)anthracene [3]	7000	
Benzo(g,h,i)perylene	5000	

No edits
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12/17/99

SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	64	40% - 140%
	Ortho-terphenyl(OTP)	61	40% - 140%
Fractionation Surrogates	Biphenyl	71	40% - 140%
	2-Fluorobiphenyl	68	40% - 140%

1 Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.
2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
3 Values reported reflect their sum.
U = Analyzed but not found.
* Surrogate value out of acceptable range.

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ANALYTICAL REPORT
Extractable Petroleum Hydrocarbon (EPH) Analysis
MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy

Standard Times

ETR Number: 43026
Lab ID Number: 43026-4
Associated Blank: ES1004B1

Sample ID: SS0501STF :[ ]09/28/99 @1255(Soil)

Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
9/29/99	SOIL	10.32 g	87%	10/04/99	Aromatic:	10/8/99	1	TQ
					Aliphatic:	10/8/99	1	TQ

EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) in µg/Kg

Parameter	Amount	Qualifier
C9-C18 Aliphatics [1]	3300	U
C19-C36 Aliphatics [1]	32000	
C11-C22 Aromatics [1,2]	290000	
Unadjusted C11-C22 Aromatics [1]	440000	

No edits
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12/17/99

TARGETED PAH ANALYTES in µg/Kg

Analyte	Amount	Qualifier
Naphthalene	1300	
2-Methylnaphthalene	720	
Acenaphthylene	1100	
Acenaphthene	2000	
Fluorene	2600	
Phenanthrene	20000	
Anthracene	4000	
Fluoranthene	24000	
Pyrene	28000	
Benzo(a)anthracene	12000	
Chrysene	12000	
Benzo(b)fluoranthene	9300	
Benzo(k)fluoranthene	8700	
Benzo(a)pyrene	11000	
Indeno(1,2,3-cd)pyrene [3]	10000	
Dibenzo(a,h)anthracene [3]	10000	
Benzo(g,h,i)perylene	7400	

SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	65	40% - 140%
	Ortho-terphenyl(OTP)	72	40% - 140%
Fractionation Surrogates	Biphenyl	81	40% - 140%
	2-Fluorobiphenyl	74	40% - 140%

1 Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.
2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
3 Values reported reflect their sum.
U = Analyzed but not found.
* Surrogate value out of acceptable range.

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ANALYTICAL REPORT
Extractable Petroleum Hydrocarbon (EPH) Analysis
MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy

Standard Times

ETR Number: 43026
Lab ID Number: 43026-5
Associated Blank: ES1004B1

Sample ID: SS0502STF :[ ]09/28/99 @1340(Soil)

Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
9/29/99	SOIL	10.66 g	82%	10/04/99	Aromatic:	10/8/99	1	TQ
					Aliphatic:	10/8/99	1	TQ

EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) in µg/Kg

Parameter	Amount	Qualifier
C9-C18 Aliphatics [1]	3400	U
C19-C36 Aliphatics [1]	19000	
C11-C22 Aromatics [1,2]	75000	
Unadjusted C11-C22 Aromatics [1]	98000	

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TARGETED PAH ANALYTES in µg/Kg

Analyte	Amount	Qualifier
Naphthalene	570	U
2-Methylnaphthalene	570	U
Acenaphthylene	570	U
Acenaphthene	570	U
Fluorene	570	U
Phenanthrene	1500	
Anthracene	570	U
Fluoranthene	3000	
Pyrene	3900	
Benzo(a)anthracene	2000	
Chrysene	2000	
Benzo(b)fluoranthene	2100	
Benzo(k)fluoranthene	1800	
Benzo(a)pyrene	2200	
Indeno(1,2,3-cd)pyrene [3]	2500	
Dibenzo(a,h)anthracene [3]	2500	
Benzo(g,h,i)perylene	2000	

SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	69	40% - 140%
	Ortho-terphenyl(OTP)	62	40% - 140%
Fractionation Surrogates	Biphenyl	65	40% - 140%
	2-Fluorobiphenyl	63	40% - 140%

1 Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.
2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
3 Values reported reflect their sum.
U = Analyzed but not found.
* Surrogate value out of acceptable range.

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ANALYTICAL REPORT
Extractable Petroleum Hydrocarbon (EPH) Analysis
MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy

Standard Times

ETR Number: 43026
Lab ID Number: 43026-6
Associated Blank: ES1004B1

Sample ID: SS0601STF :[ ]09/28/99 @1245(Soil)

Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
9/29/99	SOIL	10.2 g	91%	10/04/99	Aromatic:	10/8/99	1	TQ
					Aliphatic:	10/8/99	1	TQ

EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) in µg/Kg

Parameter	Amount	Qualifier
C9-C18 Aliphatics [1]	3200	U
C19-C36 Aliphatics [1]	14000	
C11-C22 Aromatics [1,2]	60000	
Unadjusted C11-C22 Aromatics [1]	80000	

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12/17/99

TARGETED PAH ANALYTES in µg/Kg

Analyte	Amount	Qualifier
Naphthalene	540	U
2-Methylnaphthalene	540	U
Acenaphthylene	540	U
Acenaphthene	540	U
Fluorene	540	U
Phenanthrene	1900	
Anthracene	540	U
Fluoranthene	3200	
Pyrene	3800	
Benzo(a)anthracene	1800	
Chrysene	1900	
Benzo(b)fluoranthene	1700	
Benzo(k)fluoranthene	1200	
Benzo(a)pyrene	1800	
Indeno(1,2,3-cd)pyrene [3]	1800	
Dibenzo(a,h)anthracene [3]	1800	
Benzo(g,h,i)perylene	1300	

SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	69	40% - 140%
	Ortho-terphenyl(OTP)	65	40% - 140%
Fractionation Surrogates	Biphenyl	68	40% - 140%
	2-Fluorobiphenyl	65	40% - 140%

1 Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.
2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
3 Values reported reflect their sum.
U = Analyzed but not found.
* Surrogate value out of acceptable range.

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ANALYTICAL REPORT
Extractable Petroleum Hydrocarbon (EPH) Analysis
MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy

Standard Times

ETR Number: 43026
Lab ID Number: 43026-7
Associated Blank: ES1004B1

Sample ID: SS0701STF :[ ]09/28/99 @1220(Soil)

Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
9/29/99	SOIL	10.67 g	89%	10/04/99	Aromatic:	10/8/99	1	TQ
					Aliphatic:	10/8/99	1	TQ

EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) in µg/Kg

Parameter	Amount	Qualifier
C9-C18 Aliphatics [1]	3200	U
C19-C36 Aliphatics [1]	7500	
C11-C22 Aromatics [1,2]	49000	
Unadjusted C11-C22 Aromatics [1]	76000	

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12/17/99

TARGETED PAH ANALYTES in µg/Kg

Analyte	Amount	Qualifier
Naphthalene	530	U
2-Methylnaphthalene	530	U
Acenaphthylene	530	U
Acenaphthene	530	U
Fluorene	530	U
Phenanthrene	3400	
Anthracene	820	
Fluoranthene	4900	
Pyrene	4800	
Benzo(a)anthracene	2200	
Chrysene	2100	
Benzo(b)fluoranthene	1900	
Benzo(k)fluoranthene	1600	
Benzo(a)pyrene	2100	
Indeno(1,2,3-cd)pyrene [3]	2100	
Dibenzo(a,h)anthracene [3]	2100	
Benzo(g,h,i)perylene	1400	

SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	68	40% - 140%
	Ortho-terphenyl(OTP)	68	40% - 140%
Fractionation Surrogates	Biphenyl	76	40% - 140%
	2-Fluorobiphenyl	74	40% - 140%

1 Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.
2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
3 Values reported reflect their sum.
U = Analyzed but not found.
* Surrogate value out of acceptable range.

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ANALYTICAL REPORT
Extractable Petroleum Hydrocarbon (EPH) Analysis
MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy

Standard Times

ETR Number: 43026
Lab ID Number: 43026-8
Associated Blank: ES1004B1

Sample ID: SS0801STF :[ ]09/28/99 @1200(Soil)

Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
9/29/99	SOIL	10.63 g	97%	10/04/99	Aromatic:	10/8/99	1	TQ
					Aliphatic:	10/8/99	1	TQ

EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) in µg/Kg

Parameter	Amount	Qualifier
C9-C18 Aliphatics [1]	2900	U
C19-C36 Aliphatics [1]	3900	U
C11-C22 Aromatics [1,2]	8900	
Unadjusted C11-C22 Aromatics [1]	8900	

TARGETED PAH ANALYTES in µg/Kg

Analyte	Amount	Qualifier
Naphthalene	480	U
2-Methylnaphthalene	480	U
Acenaphthylene	480	U
Acenaphthene	480	U
Fluorene	480	U
Phenanthrene	480	U
Anthracene	480	U
Fluoranthene	480	U
Pyrene	480	U
Benzo(a)anthracene	480	U
Chrysene	480	U
Benzo(b)fluoranthene	480	U
Benzo(k)fluoranthene	480	U
Benzo(a)pyrene	480	U
Indeno(1,2,3-cd)pyrene [3]	480	U
Dibenzo(a,h)anthracene [3]	480	U
Benzo(g,h,i)perylene	480	U

No edits
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12/17/99

SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	66	40% - 140%
	Ortho-terphenyl(OTP)	63	40% - 140%
Fractionation Surrogates	Biphenyl	74	40% - 140%
	2-Fluorobiphenyl	73	40% - 140%

1 Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.
2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
3 Values reported reflect their sum.
U = Analyzed but not found.
* Surrogate value out of acceptable range.

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ANALYTICAL REPORT
Extractable Petroleum Hydrocarbon (EPH) Analysis
MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy

Standard Times

ETR Number: 43026
Lab ID Number: 43026-9
Associated Blank: ES1004B1

Sample ID: SS0901STF :[ ]09/28/99 @1130(Soil)

Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
9/29/99	SOIL	10.58 g	91%	10/04/99	Aromatic:	10/8/99	1	TQ
					Aliphatic:	10/8/99	1	TQ

EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) in µg/Kg

Parameter	Amount	Qualifier
C9-C18 Aliphatics [1]	3100	U
C19-C36 Aliphatics [1]	4200	U
C11-C22 Aromatics [1,2]	8900	U
Unadjusted C11-C22 Aromatics [1]	8900	U

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12/17/99

TARGETED PAH ANALYTES in µg/Kg

Analyte	Amount	Qualifier
Naphthalene	520	U
2-Methylnaphthalene	520	U
Acenaphthylene	520	U
Acenaphthene	520	U
Fluorene	520	U
Phenanthrene	520	U
Anthracene	520	U
Fluoranthene	520	U
Pyrene	520	U
Benzo(a)anthracene	520	U
Chrysene	520	U
Benzo(b)fluoranthene	520	U
Benzo(k)fluoranthene	520	U
Benzo(a)pyrene	520	U
Indeno(1,2,3-cd)pyrene [3]	520	U
Dibenzo(a,h)anthracene [3]	520	U
Benzo(g,h,i)perylene	520	U

SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	68	40% - 140%
	Ortho-terphenyl(OTP)	64	40% - 140%
Fractionation Surrogates	Biphenyl	73	40% - 140%
	2-Fluorobiphenyl	72	40% - 140%

1 Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.
2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
3 Values reported reflect their sum.
U = Analyzed but not found.
* Surrogate value out of acceptable range.

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ANALYTICAL REPORT
Extractable Petroleum Hydrocarbon (EPH) Analysis
MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy

Standard Times

ETR Number: 43026
Lab ID Number: 43026-10
Associated Blank: ES1004B1

Sample ID: SSK0901STF :[ ]09/28/99 @1135(Soil)

Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
9/29/99	SOIL	10.7 g	89%	10/04/99	Aromatic:	10/8/99	1	TQ
					Aliphatic:	10/8/99	1	TQ

EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) in µg/Kg

Parameter	Amount	Qualifier
C9-C18 Aliphatics [1]	3200	U
C19-C36 Aliphatics [1]	4200	U
C11-C22 Aromatics [1,2]	9000	U
Unadjusted C11-C22 Aromatics [1]	9000	U

No edits
cm for LKK
12/17/99

TARGETED PAH ANALYTES in µg/Kg

Analyte	Amount	Qualifier
Naphthalene	530	U
2-Methylnaphthalene	530	U
Acenaphthylene	530	U
Acenaphthene	530	U
Fluorene	530	U
Phenanthrene	530	U
Anthracene	530	U
Fluoranthene	530	U
Pyrene	530	U
Benzo(a)anthracene	530	U
Chrysene	530	U
Benzo(b)fluoranthene	530	U
Benzo(k)fluoranthene	530	U
Benzo(a)pyrene	530	U
Indeno(1,2,3-cd)pyrene [3]	530	U
Dibenzo(a,h)anthracene [3]	530	U
Benzo(g,h,i)perylene	530	U

SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	61	40% - 140%
	Ortho-terphenyl(OTP)	63	40% - 140%
Fractionation Surrogates	Biphenyl	75	40% - 140%
	2-Fluorobiphenyl	74	40% - 140%

1 Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.
2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
3 Values reported reflect their sum.
U = Analyzed but not found.
* Surrogate value out of acceptable range.

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ANALYTICAL REPORT
Extractable Petroleum Hydrocarbon (EPH) Analysis
MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy

Standard Times

ETR Number: 43026
Lab ID Number: 43026-11
Associated Blank: ES1004B1

Sample ID: SS1001STF :[ ]09/28/99 @1100(Soil)

Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
9/29/99	SOIL	10.67 g	96%	10/04/99	Aromatic:	10/8/99	1	TQ
					Aliphatic:	10/8/99	1	TQ

EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) in µg/Kg

Parameter	Amount	Qualifier
C9-C18 Aliphatics [1]	2900	U
C19-C36 Aliphatics [1]	3900	U
C11-C22 Aromatics [1,2]	8300	U
Unadjusted C11-C22 Aromatics [1]	8300	U

TARGETED PAH ANALYTES in µg/Kg

Analyte	Amount	Qualifier
Naphthalene	490	U
2-Methylnaphthalene	490	U
Acenaphthylene	490	U
Acenaphthene	490	U
Fluorene	490	U
Phenanthrene	490	U
Anthracene	490	U
Fluoranthene	490	U
Pyrene	490	U
Benzo(a)anthracene	490	U
Chrysene	490	U
Benzo(b)fluoranthene	490	U
Benzo(k)fluoranthene	490	U
Benzo(a)pyrene	490	U
Indeno(1,2,3-cd)pyrene [3]	490	U
Dibenzo(a,h)anthracene [3]	490	U
Benzo(g,h,i)perylene	490	U

No edits
CM for LKK
12/17/99

SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	71	40% - 140%
	Ortho-terphenyl(OTP)	67	40% - 140%
Fractionation Surrogates	Biphenyl	72	40% - 140%
	2-Fluorobiphenyl	71	40% - 140%

1 Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.
2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
3 Values reported reflect their sum.
U = Analyzed but not found.
* Surrogate value out of acceptable range.

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ANALYTICAL REPORT
Extractable Petroleum Hydrocarbon (EPH) Analysis
MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy

Standard Times

ETR Number: 43026
Lab ID Number: 43026-12
Associated Blank: ES1004B1

Sample ID: SS0201STF :[ ]09/28/99 @1015(Soil)

Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
9/29/99	SOIL	10.35 g	91%	10/04/99	Aromatic:	10/8/99	1	TQ
					Aliphatic:	10/8/99	1	TQ

EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) in µg/Kg

Parameter	Amount	Qualifier
C9-C18 Aliphatics [1]	3200	U
C19-C36 Aliphatics [1]	4200	U
C11-C22 Aromatics [1,2]	9000	U
Unadjusted C11-C22 Aromatics [1]	9000	U

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TARGETED PAH ANALYTES in µg/Kg

Analyte	Amount	Qualifier
Naphthalene	530	U
2-Methylnaphthalene	530	U
Acenaphthylene	530	U
Acenaphthene	530	U
Fluorene	530	U
Phenanthrene	530	U
Anthracene	530	U
Fluoranthene	530	U
Pyrene	530	U
Benzo(a)anthracene	530	U
Chrysene	530	U
Benzo(b)fluoranthene	530	U
Benzo(k)fluoranthene	530	U
Benzo(a)pyrene	530	U
Indeno(1,2,3-cd)pyrene [3]	530	U
Dibenzo(a,h)anthracene [3]	530	U
Benzo(g,h,i)perylene	530	U

SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	72	40% - 140%
	Ortho-terphenyl(OTP)	69	40% - 140%
Fractionation Surrogates	Biphenyl	74	40% - 140%
	2-Fluorobiphenyl	73	40% - 140%

1 Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.
2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
3 Values reported reflect their sum.
U = Analyzed but not found.
* Surrogate value out of acceptable range.

M&E
AQUA ALLIANCE

MEMORANDUM

PROJECT NO:	J-020655-0002-005	**DATE:**	December 17, 1999
TO:	Standard Times Field Site File (BTSA)	**OFFICE:**	Wakefield
FROM:	L. Kulju Krowitz for	**COMPANY:**	Metcalf & Eddy
REVIEWED BY:	C. Lapite		
CC:	B. Wyskowski, N. Thurber (memo only)		

SUBJECT: Limited QC Review/Modified Tier II-Like Review
Review of MADEP VPH and EPH Analytical Results
Woods Hole Group, Raynham, Massachusetts
ETR Number 43032

On September 29 and 30, 1999, two aqueous samples and one trip blank sample were collected at the Standard Times Field BTSA site, located in New Bedford, Massachusetts by Metcalf & Eddy field personnel. The sampling was performed as part of the BTSA RAC WA #043-SISI-01ZZ. The samples were submitted to Woods Hole Group laboratory, located in Raynham, Massachusetts for the analysis of MADEP volatile petroleum hydrocarbons (VPH) and extractable petroleum hydrocarbons (EPH). All samples were received by the laboratory on October 1, 1999. The data package was received in the M&E Office on October 21, 1999. Included in Attachment I is a copy of the chain-of-custody (COC) record.

M&E reviewed the data in accordance with the EPA-approved Final Field Task Plan for the site and guidance received from EPA Work Assignment Manager, Mr. James Byrne, in a September 17, 1999 letter to M&E Work Assignment Manager, Barb Wyskowski. The data review included:

*	•	Preservation and Technical Holding Times
NA	•	Initial and Continuing Calibration
*	•	Blanks
*	•	Surrogate Compounds
	•	Matrix Spike (MS)/Matrix Spike Duplicates (MSD)
*	•	Field Duplicates
	•	Laboratory Duplicates
*	•	Laboratory Fortified Blank (LFB) and/or Laboratory Control Sample (LCS)
*	•	Fractionation Check Solution for EPH

*	=	All criteria met for this parameter
NA	=	Not Applicable and/or no information was provided by the laboratory
NR	=	Not requested

Included in Attachment II are the result summary sheets, annotated with the qualifiers detailed in this memorandum.

p:/ne/brwnflds/stantime/43032vph.wpd

Attachment I

Chains-of-Custody

43032

M&E Metcalf & Eddy

CHAIN OF CUSTODY FORM

Job/Project Name: Brownfield/Std Times
Job/Project Location: New Bedford, MA
Job/Project Number: 620655-0004-002
Samplers: (Signatures) D. St. Onge
Recorder: (Signature)
Date: 10/1/99
Lab (Samples Sent To): Woods Hole

SAMPLING Date	SAMPLING Time	SAMPLE NUMBER	~~SAMPLE LOCATION~~	MATRIX Water	MATRIX Soil	COMPOSITE/GRAB	PRESERVATIVE (Y/N)	VOA	EPH	Total # Bottles	COMMENTS
9/30/99	1200	FGW0201	STF	X		G	Y	X	X	5	HOLD
	1500	FGW0801	STF	X		G	Y	X	X	5	HOLD
	1530	FGWK0801	STF	X		G	Y	X	X	5	HOLD
	1000	GW TB01		X		G	Y	X		2	Trip Blank
	1230	GW0401	STF	X		G	Y	X	X	15	MS/MSD
	1100	FGW1001	STF	X		G	Y	X	X	5	

43032
-1
-2
-2D
-2M
-3

Temperature Blank

Wells Resample
Data not validate
CPz [illegible]

Relinquished By: (Signature)	Date:	Time:	Relinquished By: (Signature)	Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)
[signature]	10/1/99	1400			10/1/99	2:10	[signature]
Relinquished By: (Signature)	Date:	Time:	Relinquished By: (Signature)	Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)
[signature]	10/1/99	3:50	[signature]				
Relinquished By: (Signature)	Date:	Time:	Received for Lab By: (Signature)	Date:	Time:	Comments:	
						HOLD = Do Not Analyze without M&E go-ahead.	

Method of Shipment: Courier

Distribution: **Original** to Lab. **Copy 1** to Field Files, **Copy 2** to Project Manager

Form 274 (Rev. 5/89)

Attachment II

Sample Result Summary Sheets

Woods Hole Group
Environmental Laboratories
375 Paramount Drive • Suite B
Raynham, MA 02767-5154 • USA
Phone: 508-822-9300
Fax: 508-822-3288

VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS
MADEP-VPH-98-1 Rev. 0

ETR Number: 43032

Metcalf & Eddy

Lab ID Number: 43032-1

Project: Brownfield/Standard Times

Associated Blank: VW1005B1

Sample ID: GWTB01			09/30/99 @1000(Water)		
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
10/1/1999	5 mL	N/A	10/5/1999	1	AL

No Edits
[illegible] for LKB
12/20/99

VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/L

Analyte	Amount	Qualifier
C_5-C_8 Aliphatics [1,2]	240	U
C_9-C_{12} Aliphatics [1,3]	100	U
C_9-C_{10} Aromatics [1]	70	U
Unadjusted C_5-C_8 Aliphatics[1]	240	U
Unadjusted C_9-C_{12} Aliphatics[1]	100	U

TARGETED VPH ANALYTES in µg/L

Analyte	Elution Range	Amount	Qualifier
MTBE	C_5 - C_8	5	U
Benzene	C_5 - C_8	5	U
Toluene	C_5 - C_8	15	U
Ethylbenzene	C_9 - C_{12}	5	U
m & p Xylene	C_9 - C_{12}	10	U
o-Xylene	C_9 - C_{12}	10	U
Naphthalene	N/A	10	U

SURROGATE RECOVERY

	PID		FID	
Surrogate	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	118%	70%-130%	125%	70%-130%

[1] *Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.*

[2] *C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.*

[3] *C_9-C_{12} Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons.*

U = Analyzed but not detected.

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VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS
MADEP-VPH-98-1 Rev. 0

ETR Number: 43032

Metcalf & Eddy

Lab ID Number: 43032-2

Project: Brownfield/Standard Times

Associated Blank: VW1005B1

Sample ID: GW0401STF			09/30/99 @1230(Water)		
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
10/1/1999	5 mL	N/A	10/5/1999	1	AL

No edits can for LKS 12/17/99

VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/L

Analyte	Amount	Qualifier
C_5-C_8 Aliphatics [1,2]	240	U
C_9-C_{12} Aliphatics [1,3]	120	
C_9-C_{10} Aromatics [1]	70	U
Unadjusted C_5-C_8 Aliphatics[1]	240	U
Unadjusted C_9-C_{12} Aliphatics[1]	120	

TARGETED VPH ANALYTES in µg/L

Analyte	Elution Range	Amount	Qualifier
MTBE	C_5 - C_8	5	U
Benzene	C_5 - C_8	5	U
Toluene	C_5 - C_8	15	U
Ethylbenzene	C_9 - C_{12}	5	U
m & p Xylene	C_9 - C_{12}	10	U
o-Xylene	C_9 - C_{12}	10	U
Naphthalene	N/A	10	U

SURROGATE RECOVERY

	PID		FID	
Surrogate	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	116%	70%-130%	125%	70%-130%

[1] *Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.*

[2] *C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.*

[3] *C_9-C_{12} Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons.*

U = Analyzed but not detected.

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VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS
MADEP-VPH-98-1 Rev. 0

ETR Number: 43032

Metcalf & Eddy

Lab ID Number: 43032-3

Project: Brownfield/Standard Times

Associated Blank: VW1005B1

Sample ID: FGW1001STF			09/30/99 @1100(Water)		
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
10/1/1999	5 mL	N/A	10/6/1999	1	AL

No edits cks for LFK 12/17/99

VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/L

Analyte	Amount	Qualifier
C_5-C_8 Aliphatics [1,2]	240	U
C_9-C_{12} Aliphatics [1,3]	100	U
C_9-C_{10} Aromatics [1]	70	U
Unadjusted C_5-C_8 Aliphatics[1]	420	
Unadjusted C_9-C_{12} Aliphatics[1]	100	U

TARGETED VPH ANALYTES in µg/L

Analyte	Elution Range	Amount	Qualifier
MTBE	C_5 - C_8	5	U
Benzene	C_5 - C_8	5	U
Toluene	C_5 - C_8	190	
Ethylbenzene	C_9 - C_{12}	5	U
m & p Xylene	C_9 - C_{12}	10	U
o-Xylene	C_9 - C_{12}	10	U
Naphthalene	N/A	10	U

SURROGATE RECOVERY

	PID		FID	
Surrogate	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	119%	70%-130%	123%	70%-130%

[1] *Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.*

[2] *C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.*

[3] *C_9-C_{12} Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons.*

U = Analyzed but not detected.

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ANALYTICAL REPORT
Extractable Petroleum Hydrocarbon (EPH) Analysis
MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy

Brownfield/Standard Times

ETR Number: 43032
Lab ID Number: 43032-2
Associated Blank: EW1008B1

Sample ID: GW0401STF :[ ]09/30/99 @1230(Water)

Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
10/1/99	WATER	980 ml	N/A	10/8/99	Aromatic:	10/14/99	1	TQ
					Aliphatic:	10/14/99	1	TQ

EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) in µg/L

Parameter	Amount	Qualifier
C9-C18 Aliphatics [1]	31	U
C19-C36 Aliphatics [1]	41	U
C11-C22 Aromatics [1,2]	220	J
Unadjusted C11-C22 Aromatics [1]	240	J

UK
12/17/99

TARGETED PAH ANALYTES in µg/L

Analyte	Amount	Qualifier
Naphthalene	8.1	J
2-Methylnaphthalene	14	J
Acenaphthylene	5.1	U
Acenaphthene	5.1	U
Fluorene	5.1	U
Phenanthrene	5.1	U
Anthracene	5.1	U
Fluoranthene	5.1	U
Pyrene	5.1	U
Benzo(a)anthracene	5.1	U
Chrysene	5.1	U
Benzo(b)fluoranthene	5.1	U
Benzo(k)fluoranthene	5.1	U
Benzo(a)pyrene	5.1	U
Indeno(1,2,3-cd)pyrene [3]	5.1	U
Dibenzo(a,h)anthracene [3]	5.1	U
Benzo(g,h,i)perylene	5.1	U

SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	67	40% - 140%
	Ortho-terphenyl(OTP)	70	40% - 140%
Fractionation Surrogates	Biphenyl	96	40% - 140%
	2-Fluorobiphenyl	71	40% - 140%

1 Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.
2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
3 Values reported reflect their sum.
U Analyzed but not found.
* Surrogate value out of acceptable range.

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Fax: 508-822-3288

ANALYTICAL REPORT
Extractable Petroleum Hydrocarbon (EPH) Analysis
MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy

Brownfield/Standard Times

ETR Number: 43032
Lab ID Number: 43032-3
Associated Blank: EW1008B1

Sample ID: FGW1001STF :[ ]09/30/99 @1100(Water)

Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
10/1/99	WATER	980 ml	N/A	10/08/99	Aromatic:	10/14/99	1	TQ
					Aliphatic:	10/14/99	1	TQ

EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) in µg/L

Parameter	Amount	Qualifier
C9-C18 Aliphatics [1]	31	U
C19-C36 Aliphatics [1]	41	U
C11-C22 Aromatics [1,2]	87	U
Unadjusted C11-C22 Aromatics [1]	87	U

No results cm for USK 12/17/99

TARGETED PAH ANALYTES in µg/L

Analyte	Amount	Qualifier
Naphthalene	5.1	U
2-Methylnaphthalene	5.1	U
Acenaphthylene	5.1	U
Acenaphthene	5.1	U
Fluorene	5.1	U
Phenanthrene	5.1	U
Anthracene	5.1	U
Fluoranthene	5.1	U
Pyrene	5.1	U
Benzo(a)anthracene	5.1	U
Chrysene	5.1	U
Benzo(b)fluoranthene	5.1	U
Benzo(k)fluoranthene	5.1	U
Benzo(a)pyrene	5.1	U
Indeno(1,2,3-cd)pyrene [3]	5.1	U
Dibenzo(a,h)anthracene [3]	5.1	U
Benzo(g,h,i)perylene	5.1	U

SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	70	40% - 140%
	Ortho-terphenyl(OTP)	68	40% - 140%
Fractionation Surrogates	Biphenyl	74	40% - 140%
	2-Fluorobiphenyl	75	40% - 140%

1 Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.
2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
3 Values reported reflect their sum.
U = Analyzed but not found.
* Surrogate value out of acceptable range.

M&E
AQUA ALLIANCE

MEMORANDUM

PROJECT NO:	J-020655-0002-005	**DATE:**	December 17, 1999
TO:	Standard Times Field Site File (BTSA)	**OFFICE:**	Wakefield
FROM:	L. Kulju Krowitz for	**COMPANY:**	Metcalf & Eddy
REVIEWED BY:	C. Lapite		
CC:	B. Wyskowski, N. Thurber (memo only)		

SUBJECT: Limited QC Review/Modified Tier II-Like Review
MADEP VPH and EPH Analytical Results
Woods Hole Group, Raynham, Massachusetts
ETR Number 43199 Semivolatile and Pesticide/PCB Analytical Results

On November 2, 1999, three aqueous samples and one trip blank sample were collected at the Standard Times Field BTSA site, located in New Bedford, Massachusetts by Metcalf & Eddy field personnel. The sampling was performed as part the BTSA RAC WA #043-SISI-01ZZ. The samples were submitted to Woods Hole Group laboratory, located in Raynham, Massachusetts for the analysis of MADEP volatile petroleum hydrocarbons (VPH) and extractable petroleum hydrocarbons (EPH). All samples were received by the laboratory on November 2, 1999. The data package was received in the M&E Office on November 19, 1999. Included in Attachment I is a copy of the chain-of-custody (COC) record.

M&E reviewed the data in accordance with the EPA-approved Final Field Task Work Plan for the site and the guidance received from EPA Work Assignment Manager, Mr. James Byrne, in a September 17, 1999 letter to M&E Work Assignment Manager, Barb Wyskowski. The data review included:

*	•	Preservation and Technical Holding Times
NA	•	Initial and Continuing Calibration
*	•	Blanks
*	•	Surrogate Compounds
	•	Matrix Spike (MS)/Matrix Spike Duplicates (MSD) (From ETR No. 43032)
*	•	Field Duplicates
*	•	Laboratory Duplicates
*	•	Laboratory Fortified Blank (LFB) and/or Laboratory Control Sample (LCS)
*	•	Fractionation Check Solution for EPH

*	=	All criteria met for this parameter
NA	=	Not Applicable and/or no information was provided by the laboratory
NR	=	Not requested

Included in Attachment II are the result summary sheets.

p:/ne/brwnflds/stantime/43199vph.wpd

Matrix Spike/Matrix Spike Duplicate

The following matrix spike recoveries in the EPH MS/MSD sample GW0401STF, from ETR No. 43032, did not meet acceptable criteria indicating possible matrix interference.

Analyte	%Recovery	Action
naphthalene	34	Estimate positive result in sample GW0401STF
2-methylnaphthalene	26	Estimate positive result in sample GW0401STF

Since the validation action is to qualify data in the unspiked sample, no qualification of data in this SDG is necessary.

There were no qualifications added to the data as a result of the data review.

EPA-NE
Data Validation Worksheet Cover Page - Page 1

Site Name Standard Times Field
Reference No. I-024655-002-005

REGION I ORGANIC DATA VALIDATION

The following data package has been validated:

Lab Name Woods Hole group
Case/Project No. ETR # 43195
SDG No. —
No. of Samples/Matrix 3 aq.

SOW/Method No. MADEP VPH/EPH
Sampling Date(s) 11/2/99
Shipping Date(s) 11/2/99
Date Rec'd by lab 11/2/99

Traffic Report Sample Nos. GW-02RE - GWK-02RE, GW-08RE

Trip Blank No. TB-991102
Equipment Blank No. none
Bottle Blank No. none
Field Duplicate Nos. GW-02RE GWK-02RE
PES Nos. None

The Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, revision 12/96 was used to evaluate the data and/or approved modifications to the EPA-NE Functional Guidelines were used to evaluate the data and are attached to this cover page: (attach modified criteria from EPA approved QAPjP or amendment to QAPjP).

A Tier II or Tier III evaluation was used to validate the data (circle one). If a Tier II validation with a partial Tier III was used, then identify samples, parameters, etc. that received partial Tier III validation

Modified Tier I / Tier II

The data were evaluated based upon the following parameters:

Cooler T = 4°C ± 2
pH < 2

ok - Overall Evaluation of Data
NA - Data Completeness (CSF Audit - Tier I)
ok - Preservation & Technical Holding Times
NA - GC/MS & GC/ECD Instrument Performance Check
NE - Initial & Continuing Calibrations
ok - Blanks
ok - Surrogate Compounds
NA - Internal Standards
NR - Matrix Spike/Matrix Spike Duplicate
Submitted in ETR No 43032

ok - Fract. Check Soln EPH
ok - Field Duplicates
ok - Sensitivity Check (LCS)
NR - PE Samples/Accuracy Check
NE - Target Compound Identification
NE - Compound Quantitation and Reported Quantitation Limits
NA - TICs
NA - Semivolatile and Pesticide/PCB Cleanup
NE - System Performance

Region I Definitions and Qualifiers:

NR - not requested for analysis
NE - not evaluated
NA - not applicable to method and/or Tier I/II DV

A - Acceptable Data
J - Numerical value associated with compound is an estimated quantity.
R - The data are rejected as unusable. The R replaces the numerical value or sample quantitation limit.
U - Compound not detected at that numerical sample quantitation limit.
UJ - The sample quantitation limit is an estimated quantity.
TB, BB, EB - Compound detected in aqueous trip blank, aqueous bottle blank, or aqueous equipment blank associated with soil/sediment samples.

Validator's Name Lisa Kulp Kronitz Company Name Metcalf & Eddy Phone Number 781-768 246-5200 12/11/99

Date Validation Started 12/11/99 Date Validation Completed 12/14/99

Attachment I

Chains-of-Custody

Metcalf & Eddy

CHAIN OF CUSTODY FORM

4/3/99

Job/Project Name: BTSA: Standard Times

Job/Project Location: New Bedford, MA

Job/Project Number: 020655-0002

Samplers: (Signatures) [signature]

Recorder: (Signature) [signature]

Date: 11/2/99

Lab (Samples Sent To): Woodshole Labs

SAMPLING Date	SAMPLING Time	SAMPLE NUMBER	~~SAMPLE LOCATION~~	MATRIX Water	MATRIX Soil	COMPOSITE/GRAB	PRESERVATIVE (Y/N)	ANALYSIS REQUESTED VPH	ANALYSIS REQUESTED EPH	Total # of Wts	COMMENTS
											4/3/99
11/2/99	1400	TB-991102		X		G	Y	X		2	Trip Blank -1
11/2/99	1110	GW-02RE		X		G	Y	X	X	5	-2
11/2/99	1510 GRZ ~~1910~~	GWK-02RE		X		G	Y	X	X	5	Field Duplicate of GW-02RE -3
11/2/99	1300	GW-08RE		X		G	Y	X	X	5	-4
				Cooler Temperature Blank							7.5°C GRZ

Relinquished By: (Signature)	Date:	Time:	Relinquished By: (Signature)	Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)
[signature]	11/2/99	1655					G.R. [signature]
Relinquished By: (Signature)	Date:	Time:	Relinquished By: (Signature)	Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)
Relinquished By: (Signature)	Date:	Time:	Received for Lab By: (Signature)	Date:	Time:	Comments: Preservative: VPH: HCl, pH<2 EPH: " " Batch MS/MSD Requested	

Method of Shipment: Driven

Distribution: **Original** to Lab. **Copy 1** to Field Files, **Copy 2** to Project Manager

Form 274 (Rev. 5/89)

Attachment II

Sample Result Summary Sheets

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VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS
MADEP-VPH-98-1 Rev. 0

ETR Number: 43199

Metcalf & Eddy

Lab ID Number: 43199-1

Project: BSTA: Standard Times

Associated Blank: VW1105B1

Sample ID: TB-991102			11/02/99 @1400(Water)		
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
11/2/99	5 mL	N/A	11/5/99	1	AL

No edits
CBS for LKS
12/17/99

VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/L

Analyte	Amount	Qualifier
C_5-C_8 Aliphatics [1,2]	240	U
C_9-C_{12} Aliphatics [1,3]	100	U
C_9-C_{10} Aromatics [1]	70	U
Unadjusted C_5-C_8 Aliphatics[1]	240	U
Unadjusted C_9-C_{12} Aliphatics[1]	100	U

TARGETED VPH ANALYTES in µg/L

Analyte	Elution Range	Amount	Qualifier
MTBE	C_5 - C_8	5	U
Benzene	C_5 - C_8	5	U
Toluene	C_5 - C_8	15	U
Ethylbenzene	C_9 - C_{12}	5	U
m & p Xylene	C_9 - C_{12}	10	U
o-Xylene	C_9 - C_{12}	10	U
Naphthalene	N/A	10	U

SURROGATE RECOVERY

	PID		FID	
Surrogate	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	106%	70%-130%	123%	70%-130%

[1] *Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.*

[2] *C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.*

[3] *C_9-C_{12} Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons.*

U = Analyzed but not detected.

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VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS
MADEP-VPH-98-1 Rev. 0

ETR Number: 43199

Metcalf & Eddy

Lab ID Number: 43199-2

Project: BSTA: Standard Times

Associated Blank: VW1105B1

Sample ID: GW-02RE			11/02/99 @1110(Water)		
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
11/2/99	5 mL	N/A	11/5/99	1	AL

No edits except K 12/17/99

VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/L

Analyte	Amount	Qualifier
C_5-C_8 Aliphatics [1,2]	240	U
C_9-C_{12} Aliphatics [1,3]	100	U
C_9-C_{10} Aromatics [1]	70	U
Unadjusted C_5-C_8 Aliphatics[1]	240	U
Unadjusted C_9-C_{12} Aliphatics[1]	100	U

TARGETED VPH ANALYTES in µg/L

Analyte	Elution Range	Amount	Qualifier
MTBE	C_5 - C_8	5	U
Benzene	C_5 - C_8	5	U
Toluene	C_5 - C_8	15	U
Ethylbenzene	C_9 - C_{12}	5	U
m & p Xylene	C_9 - C_{12}	10	U
o-Xylene	C_9 - C_{12}	10	U
Naphthalene	N/A	10	U

SURROGATE RECOVERY

	PID		FID	
Surrogate	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	106%	70%-130%	123%	70%-130%

[1] *Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.*

[2] *C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.*

[3] *C_9-C_{12} Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons.*

U = Analyzed but not detected.

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VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS
MADEP-VPH-98-1 Rev. 0

ETR Number: 43199

Metcalf & Eddy

Lab ID Number: 43199-3

Project: BSTA: Standard Times

Associated Blank: VW1105B1

No edits
CR for LSK
12/17/99

Sample ID: GWK-02RE 11/02/99@1510(Water)

Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
11/2/99	5 mL	N/A	11/5/99	1	AL

VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/L

Analyte	Amount	Qualifier
C_5-C_8 Aliphatics [1,2]	240	U
C_9-C_{12} Aliphatics [1,3]	100	U
C_9-C_{10} Aromatics [1]	70	U
Unadjusted C_5-C_8 Aliphatics[1]	240	U
Unadjusted C_9-C_{12} Aliphatics[1]	100	U

TARGETED VPH ANALYTES in µg/L

Analyte	Elution Range	Amount	Qualifier
MTBE	C_5 - C_8	5	U
Benzene	C_5 - C_8	5	U
Toluene	C_5 - C_8	15	U
Ethylbenzene	C_9 - C_{12}	5	U
m & p Xylene	C_9 - C_{12}	10	U
o-Xylene	C_9 - C_{12}	10	U
Naphthalene	N/A	10	U

SURROGATE RECOVERY

	PID		FID	
Surrogate	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	106%	70%-130%	123%	70%-130%

[1] *Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.*

[2] *C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.*

[3] *C_9-C_{12} Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons.*

U = Analyzed but not detected.

Woods Hole Group
Environmental Laboratories
375 Paramount Drive • Suite B
Raynham, MA 02767-5154 • USA
Phone: 508-822-9300
Fax: 508-822-3288

VOLATILE PETROLEUM HYDROCARBON (VPH) ANALYSIS
MADEP-VPH-98-1 Rev. 0

ETR Number: 43199

Metcalf & Eddy

Lab ID Number: 43199-4

Project: BSTA: Standard Times

Associated Blank: VW1105B1

No calcs
CM for VKK
12/27/99

Sample ID: GW-08RE			11/02/99 @1300(Water)		
Date Received	Sample Amount	% Solids	Date Analyzed	Dilution Factor	Analyst
11/2/99	5 mL	N/A	11/5/99	1	AL

VOLATILE PETROLEUM HYDROCARBONS (VPH) in µg/L

Analyte	Amount	Qualifier
C_5-C_8 Aliphatics [1,2]	240	U
C_9-C_{12} Aliphatics [1,3]	100	U
C_9-C_{10} Aromatics [1]	70	U
Unadjusted C_5-C_8 Aliphatics[1]	240	U
Unadjusted C_9-C_{12} Aliphatics[1]	100	U

TARGETED VPH ANALYTES in µg/L

Analyte	Elution Range	Amount	Qualifier
MTBE	C_5 - C_8	5	U
Benzene	C_5 - C_8	5	U
Toluene	C_5 - C_8	15	U
Ethylbenzene	C_9 - C_{12}	5	U
m & p Xylene	C_9 - C_{12}	10	U
o-Xylene	C_9 - C_{12}	10	U
Naphthalene	N/A	10	U

SURROGATE RECOVERY

	PID		FID	
Surrogate	% Recovery	Range	% Recovery	Range
1,4-Difluorobenzene	107%	70%-130%	125%	70%-130%

[1] *Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.*

[2] *C_5-C_8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.*

[3] *C_9-C_{12} Aliphatic Hydrocarbons exclude concentration of Target Analytes eluting in that range AND concentration of C_9-C_{10} Aromatic Hydrocarbons.*

U = Analyzed but not detected.

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ANALYTICAL REPORT
Extractable Petroleum Hydrocarbon (EPH) Analysis
MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy

BSTA: Standard Times

ETR Number: 43199
Lab ID Number: 43199-2
Associated Blank: EW1108B1

No calcs conf for CKK 12/17/99

Sample ID: GW-02RE :[ ]11/02/99 @1110(Water)

Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
11/2/99	WATER	800 ml	N/A	11/08/99	Aromatic:	11/15/99	1	TQ
					Aliphatic:	11/15/99	1	TQ

EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) in µg/L

Parameter	Amount	Qualifier
C9-C18 Aliphatics [1]	38	U
C19-C36 Aliphatics [1]	50	U
C11-C22 Aromatics [1,2]	110	U
Unadjusted C11-C22 Aromatics [1]	110	U

TARGETED PAH ANALYTES in µg/L

Analyte	Amount	Qualifier
Naphthalene	6.2	U
2-Methylnaphthalene	6.2	U
Acenaphthylene	6.2	U
Acenaphthene	6.2	U
Fluorene	6.2	U
Phenanthrene	6.2	U
Anthracene	6.2	U
Fluoranthene	6.2	U
Pyrene	6.2	U
Benzo(a)anthracene	6.2	U
Chrysene	6.2	U
Benzo(b)fluoranthene	6.2	U
Benzo(k)fluoranthene	6.2	U
Benzo(a)pyrene	6.2	U
Indeno(1,2,3-cd)pyrene [3]	6.2	U
Dibenzo(a,h)anthracene [3]	6.2	U
Benzo(g,h,i)perylene	6.2	U

SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	69	40% - 140%
	Ortho-terphenyl(OTP)	64	40% - 140%
Fractionation Surrogates	Biphenyl	69	40% - 140%
	2-Fluorobiphenyl	67	40% - 140%

1 Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.
2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
3 Values reported reflect their sum.
U = Analyzed but not found.
* Surrogate value out of acceptable range.

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Fax: 508-822-3288

ANALYTICAL REPORT
Extractable Petroleum Hydrocarbon (EPH) Analysis
MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy

BSTA: Standard Times

ETR Number: 43199
Lab ID Number: 43199-3
Associated Blank: EW1108B1

Sample ID: GWK-02RE :[ ]11/02/99 @1510(Water)

Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
11/2/99	WATER	830 ml	N/A	11/08/99	Aromatic:	11/15/99	1	TQ
					Aliphatic:	11/15/99	1	TQ

EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) in µg/L

Parameter	Amount	Qualifier
C9-C18 Aliphatics [1]	36	U
C19-C36 Aliphatics [1]	48	U
C11-C22 Aromatics [1,2]	100	U
Unadjusted C11-C22 Aromatics [1]	100	U

No calcs conf for LKK 12/17/99

TARGETED PAH ANALYTES in µg/L

Analyte	Amount	Qualifier
Naphthalene	6.0	U
2-Methylnaphthalene	6.0	U
Acenaphthylene	6.0	U
Acenaphthene	6.0	U
Fluorene	6.0	U
Phenanthrene	6.0	U
Anthracene	6.0	U
Fluoranthene	6.0	U
Pyrene	6.0	U
Benzo(a)anthracene	6.0	U
Chrysene	6.0	U
Benzo(b)fluoranthene	6.0	U
Benzo(k)fluoranthene	6.0	U
Benzo(a)pyrene	6.0	U
Indeno(1,2,3-cd)pyrene [3]	6.0	U
Dibenzo(a,h)anthracene [3]	6.0	U
Benzo(g,h,i)perylene	6.0	U

SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	72	40% - 140%
	Ortho-terphenyl(OTP)	72	40% - 140%
Fractionation Surrogates	Biphenyl	71	40% - 140%
	2-Fluorobiphenyl	69	40% - 140%

1 Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.
2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
3 Values reported reflect their sum.
U = Analyzed but not found.
* Surrogate value out of acceptable range.

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ANALYTICAL REPORT
Extractable Petroleum Hydrocarbon (EPH) Analysis
MADEP-EPH-98-1 Rev. 0

Metcalf & Eddy

BSTA: Standard Times

ETR Number: 43199
Lab ID Number: 43199-4
Associated Blank: EW1108B1

Sample ID: GW-08RE :[ ]11/02/99 @1300(Water)

Date Received	Matrix	Sample Amount	% Solids	Date Extracted	Fraction	Date Analyzed	Dilution Factor	Analyzed By
11/2/99	WATER	800 ml	N/A	11/08/99	Aromatic:	11/15/99	1	TQ
					Aliphatic:	11/15/99	1	TQ

EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) in µg/L

Parameter	Amount	Qualifier
C9-C18 Aliphatics [1]	38	U
C19-C36 Aliphatics [1]	150	
C11-C22 Aromatics [1,2]	110	U
Unadjusted C11-C22 Aromatics [1]	110	U

No calcs cm for CKK 12/17/99

TARGETED PAH ANALYTES in µg/L

Analyte	Amount	Qualifier
Naphthalene	6.2	U
2-Methylnaphthalene	6.2	U
Acenaphthylene	6.2	U
Acenaphthene	6.2	U
Fluorene	6.2	U
Phenanthrene	6.2	U
Anthracene	6.2	U
Fluoranthene	6.2	U
Pyrene	6.2	U
Benzo(a)anthracene	6.2	U
Chrysene	6.2	U
Benzo(b)fluoranthene	6.2	U
Benzo(k)fluoranthene	6.2	U
Benzo(a)pyrene	6.2	U
Indeno(1,2,3-cd)pyrene [3]	6.2	U
Dibenzo(a,h)anthracene [3]	6.2	U
Benzo(g,h,i)perylene	6.2	U

SURROGATE RECOVERIES

Type	Surrogate	% Recovery	Acceptance Range
Extraction Surrogates	5-alpha-androstane	68	40% - 140%
	Ortho-terphenyl(OTP)	67	40% - 140%
Fractionation Surrogates	Biphenyl	68	40% - 140%
	2-Fluorobiphenyl	68	40% - 140%

1 Hydrocarbon Range data exclude the area of any surrogate(s) and/or internal standards eluting in that range.
2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.
3 Values reported reflect their sum.
U = Analyzed but not found.
* Surrogate value out of acceptable range.

M&E
AQUA ALLIANCE

MEMORANDUM

PROJECT NO:	J-020655-0002-005	**DATE:**	December 20, 1999
TO:	Standard Times Field Site File (BTSA)	**OFFICE:**	Wakefield
FROM:	L. Kulju Krowitz	**COMPANY:**	Metcalf & Eddy
REVIEWED BY:	C. Lapite		
CC:	B. Wyskowski, N. Thurber (memo only)		

SUBJECT: Limited QC Review/Modified Tier II-Like Review
Review of Pesticide/PCB Analytical Results
Southwest Laboratory, Broken Arrow, Oklahoma
Case 27544, SDG AQL49

On November 2, 1999, three aqueous samples were collected at the Standard Times Field BTSA site, located in New Bedford, Massachusetts by Metcalf & Eddy field personnel. The sampling was performed as part of the BTSA RAC WA #043-SISI-01ZZ. The samples were submitted to Southwest Laboratory, located in Broken Arrow, Oklahoma for the analysis of pesticides and polychlorinated biphenyls (PCBs). All samples were received by the laboratory on November 3, 1999. The data package was received in the M&E Office on December 17, 1999. Included in Attachment I is a copy of the chain-of-custody (COC) record.

M&E reviewed the data in accordance with the EPA-approved Final Field Task Work Plan for the site and the guidance received from EPA Work Assignment Manager, Mr. James Byrne, in a September 17, 1999 letter to M&E Work Assignment Manager, Barb Wyskowski. The data review included:

*	•	Preservation and Technical Holding Times
*	•	Initial and Continuing Calibration
*	•	Blanks
*	•	Surrogate Compounds
*	•	Matrix Spike (MS)/Matrix Spike Duplicates (MSD)
*	•	Field Duplicates
NA	•	Laboratory Fortified Blank (LFB) and/or Laboratory Control Sample (LCS)
*	•	Pesticide/PCB Cleanup
*	•	Pesticide/PCB Resolution
*	•	Pesticide Breakdown
	•	Compound Quantitation and Reported Quantitation Limits

*	=	All criteria met for this parameter
NA	=	Not applicable and/or no information was provided by the laboratory
NR	=	Not requested

Included in Attachment II are the result summary sheets, annotated with qualifiers, if necessary, as detailed in this memorandum. The complete CSF Sheet is included in Attachment III.

Compound Quantitation and Reported Quantitation Limits

A dual column difference of greater than 25 percent was found for the target compounds listed in the following table:

Sample Number	Compound	Percent Difference (%)
AQL50	heptachlor	47.6

The positive result listed above has been qualified as estimated (J), but a bias could not be determined.

EPA-NE
Data Validation Worksheet Cover Page - Page 1

Site Name Standard Times Field
Reference No. J-020655-0002-005

REGION I ORGANIC DATA VALIDATION

The following data package has been validated:

Lab Name SWL-TULSA
Case/Project No. 27544
SDG No. AQL49
No. of Samples/Matrix 3 aq

SOW/Method No. OLM04.2
Sampling Date(s) 11/2/99
Shipping Date(s) 11/2/99
Date Rec'd by lab 11/3/99

Traffic Report Sample Nos. AQL49 -50, -51

Trip Blank No. none
Equipment Blank No.
Bottle Blank No.
Field Duplicate Nos. Case 27436 ~~from SDG APF29 APF88/APF89~~ AQL49, AQL50
PES Nos.

The Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, revision 12/96 was used to evaluate the data and/or approved modifications to the EPA-NE Functional Guidelines were used to evaluate the data and are attached to this cover page: (attach modified criteria from EPA approved QAPjP or amendment to QAPjP).

A Tier II or Tier III evaluation was used to validate the data (circle one). If a Tier II validation with a partial Tier III was used, then identify samples, parameters, etc. that received partial Tier III validation

Modified Tier I / Tier II

The data were evaluated based upon the following parameters:

- Cooler T = 2°C
- No MS/MSD required

ok - Overall Evaluation of Data
ok - Data Completeness (CSF Audit - Tier I)
ok - Preservation & Technical Holding Times
NA - GC/MS & GC/ECD Instrument Performance Check
ok - Initial & Continuing Calibrations
ok - Blanks
ok - Surrogate Compounds
NA - Internal Standards
NA - Matrix Spike/Matrix Spike Duplicate

ok NA - Field Duplicates
NA - Sensitivity Check
NA - PE Samples/Accuracy Check
NE - Target Compound Identification
* - Compound Quantitation and Reported Quantitation Limits
NA - TICs
ok - Semivolatile and Pesticide/PCB Cleanup
ok - System Performance
ok - Resolution
ok - PEM
ok - Breakdown
ok - Florisil

NA - not applicable
NR - not required
NE - not evaluated

Region I Definitions and Qualifiers:

A - Acceptable Data
J - Numerical value associated with compound is an estimated quantity.
R - The data are rejected as unusable. The R replaces the numerical value or sample quantitation limit.
U - Compound not detected at that numerical sample quantitation limit.
UJ - The sample quantitation limit is an estimated quantity.
TB, BB, EB - Compound detected in aqueous trip blank, aqueous bottle blank, or aqueous equipment blank associated with soil/sediment samples.

Validator's Name Lisa Kulyk Knowitz Company Name M+E Phone Number 781-246-5200

Date Validation Started 12/9/99 Date Validation Completed 12/14/99

Check if all criteria are met and no hard copy worksheet provided. Indicate NA if worksheet is not applicable to analytical method. Note: there is no standard worksheet for System Performance, however, the validator must document all system performance issues in the Data Validation Memorandum.

VOA/SV worksheets:

VOA/SV-Pest/PCB	COMPLETE SDG FILE (CSF) AUDIT	NA
VOA/SV-Pest/PCB-I	PRESERVATION AND HOLDING TIMES	
VOA/SV-II	GC/MS INSTRUMENT PERFORMANCE CHECK (TUNING)	
VOA/SV-III	INITIAL CALIBRATION	
VOA/SV-IV	CONTINUING CALIBRATION	
VOA/SV-Pest/PCB-V-A	BLANK ANALYSIS	
VOA/SV-Pest/PCB-V-B	BLANK ANALYSIS	
VOA-VI	VOA SURROGATE SPIKE RECOVERIES	
SV-VI	SV SURROGATE SPIKE RECOVERIES	
VOA/SV-VII	INTERNAL STANDARD PERFORMANCE	
VOA/SV-Pest/PCB-VIII	MATRIX SPIKE/MATRIX SPIKE DUPLICATE	
VOA/SV-Pest/PCB-IX	FIELD DUPLICATE PRECISION	
VOA/SV-Pest/PCB-X	SENSITIVITY CHECK	
VOA/SV-Pest/PCB-XI	ACCURACY CHECK	
VOA/SV-Pest/PCB-XII	TARGET COMPOUND IDENTIFICATION	
VOA/SV-Pest/PCB-XIII	SAMPLE QUANTITATION	
VOA/SV-XIV	TENTATIVELY IDENTIFIED COMPOUNDS	
VOA/SV-XV	SEMIVOLATILE CLEANUP	
TABLE II-WORKSHEET	OVERALL EVALUATION OF DATA	✓

Pest/PCB worksheets:

VOA/SV-Pest/PCB	COMPLETE SDG FILE (CSF) AUDIT	
VOA/SV-Pest/PCB-I	PRESERVATION AND HOLDING TIMES	✓ ~~ok but~~ LKK 12/11/99 indicated
Pest/PCB-IIA	GC/ECD INSTRUMENT PERFORMANCE CHECK-RESOLUTION	✓
Pest/PCB-IIB	GC/ECD INSTRUMENT PERFORMANCE CHECK-RETENTION TIMES	✓
Pest/PCB-IIC	GC/ECD INSTRUMENT PERFORMANCE CHECK-ACCURACY CHECK OF INITIAL CALIBRATION	✓
Pest/PCB-IID	GC/ECD INSTRUMENT PERFORMANCE CHECK-PESTICIDE DEGRADATION	✓
Pest/PCB-III	INITIAL CALIBRATION	✓
Pest/PCB-IV	CONTINUING CALIBRATION	✓
VOA/SV-Pest/PCB-V-A	BLANK ANALYSIS	✓
VOA/SV-Pest/PCB-V-B	BLANK ANALYSIS	✓
Pest/PCB-VI	SURROGATE COMPOUNDS: SPIKE RECOVERIES AND RETENTION TIME SHIFT	✓
Pest/PCB-VII	PESTICIDE CLEANUP	✓
VOA/SV-Pest/PCB-VIII	MATRIX SPIKE/MATRIX SPIKE DUPLICATE	✓
VOA/SV-Pest/PCB-IX	FIELD DUPLICATE PRECISION	✓
VOA/SV-Pest/PCB-X	SENSITIVITY CHECK	✓
VOA/SV-Pest/PCB-XI	ACCURACY CHECK	✓
Pest/PCB-XII	COMPOUND IDENTIFICATION	✓
VOA/SV-Pest/PCB-XIII	SAMPLE QUANTITATION	
TABLE II-WORKSHEET	OVERALL EVALUATION OF DATA	✓

I certify that all criteria were met for the worksheets checked above.

Signature: Lisa Kulyk-Kronste Name: Lisa Kulyk-Kronste

Date: 12/9/99

PESTICIDE FLORISIL CARTRIDGE SPIKE RECOVERIES (CLP FORM 9A)

List the florisil cartridge spike pesticides that were recovered outside the QC limits (80–120%)

Date	Pesticide	% Recovery

List the actions taken as a result of poor florisil cartridge spike recovery:

PESTICIDE GPC SPIKE RECOVERIES (CLP FORM 9B)

Date	Pesticide	% Recovery

List the actions taken as a result of poor GPC spike recovery below:

PERCENT DIFFERENCE BETWEEN TWO COLUMN QUANTITATIONS (CLP FORMS 10A,10B)

Sample Number	Analyte	%Difference	Action
~~AL0~~			
AQL50	heptachlor	47.6	< CRQL already J'd

Attachment I

Chains-of-Custody

EPA United States Environmental Protection Agency Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

Case No.: 2794

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

2. Region No.: I
Sampling Co.: Malcolm - Eddy
4. Date Shipped: 11/3/99
Carrier: Fed Ex
Sampler (Name): Constance Capuchino
Airbill Number: 8138083916709 ~~7132544445~~
Sampler Signature:
3. Purpose* Lead: SF, PRP, ST, FED; Early Action: CLEM, PA, REM, RI, SI, ESI; Long-Term Action: FS, RD, RA, O&M, NPLD
5. Ship To: Bitterwell Labs of OK, Inc 1700 West Albany Suite C Broken Arrow, OK 74012
ATTN: Mary Berg
6. Date Received -- Received by: S Hodson 11/3/99
Laboratory Contract Number:
Unit Price:
7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E RAS Analysis VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases Solids	Water-Miscible Liq.	Water-Immis. Liq.
AQL49	2	L	G	5			X		133674 - 133675	GW-OKE	11/1/99 1100	—	—			
AQL50	2	L	G	5			X		133676 - 133677	GW-OKE	11/2/99 1900	—	—	(Field Dupe of AQL49)		
* AQL51	2	L	G	5			X		133678 - 133679	GW-OKE	11/2/99 1300	—	—			
									Water Temperature Blank		—					

Shipment for Case Complete? (Y/N): Y
Page 1 of 1
Sample(s) to be Used for Laboratory QC: N/A MS/MSD
Additional Sampler Signatures:
Chain of Custody Seal Number(s):

* SDG Final Sample

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
	11/2/99 1750				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) S Hodson	Date / Time 11/3/99 9:55	Remarks Is custody seal intact? Y/N/none 1.7C	

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to CLASS

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

AQL49

A21-012-16 REV.

364596

Attachment II

Sample Result Summary Sheets

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AQL49

Lab Name: SWL-TULSA Contract: 68-W-99-079

Lab Code: SWOK Case No.: 27544 SAS No.: SDG No.: AQL49

Matrix: (soil/water) WATER Lab Sample ID: 40959.01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) __ Date Received: 11/03/99

Extraction: (Type) SEPF Date Extracted: 11/04/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/10/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.031	J
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Noeeluts
CR for LRS
12/20/99

1E
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AQL50

Lab Name: SWL-TULSA Contract: 68-W-99-079

Lab Code: SWOK Case No.: 27544 SAS No.: SDG No.: AQL49

Matrix: (soil/water) WATER Lab Sample ID: 40959.02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) __ Date Received: 11/03/99

Extraction: (Type) SEPF Date Extracted: 11/04/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/10/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.021	~~B~~ J
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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12/20/99

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AQL51

Lab Name: SWL-TULSA Contract: 68-W-99-079

Lab Code: SWOK Case No.: 27544 SAS No.: SDG No.: AQL49

Matrix: (soil/water) WATER Lab Sample ID: 40959.03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) __ Date Received: 11/03/99

Extraction: (Type) SEPF Date Extracted: 11/04/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/10/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.023	J
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

No edits
CR for LSK
12/20/99

Attachment III

CSF Sheet

Evidence Audit Photocopy DG/ESAT 11-16-99 Standard Times 9911013-OA M&E/RI

LABORATORY NAME Southwest Laboratory of Oklahoma
CITY/STATE Broken Arrow, OKLAHOMA

CASE NO. 27544 SDG NO. AQL49 SDG NOS. TO FOLLOW
SAS NO.

CONTRACT NO. 68-W-99-079
SOW NO. OLM04.2

RECEIVED
NOV 16 1999
U.S. EPA-EQA OFFICE

All documents delivered in the Complete SDG File must be original documents where possible.

	PAGE NOs FROM	TO	CHECK LAB	EPA
1. Inventory Sheet (Form DC-2) (Do not Number)			OK	UK
2. SDG Case Narrative	01	05	✓	✓
3. SDG Cover Sheet/Traffic Report	06	07	✓	✓
4. Volatiles Data				
a. QC Summary				
System Monitoring Compound Summary (Form II VOA)	NA	NA		NA
Matrix Spike/Matrix Spike Duplicate Summary (Form III VOA)				
Method Blank Summary (Form IV VOA)				
GC/MS Instrument Performance Check (Form V VOA)				
Internal Standard Area and RT Summary (Form VIII VOA)				
b. Sample Data				
TCL Results - (Form I VOA-1, VOA-2)				
Tentatively Identified Compounds (Form I VOA-TIC)				
Reconstructed total ion chromatograms (RIC) for each sample				
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds identified				
Quantitation reports				
Mass Spectra of all reported TICs with three best library matches				
c. Standards Data (All Instruments)				
Initial Calibration Data (Form VI VOA-1, VOA-2)				
RICs and Quan Reports for all Standards				
Continuing Calibration Data (Form VII VOA-1, VOA-2)				
RICs and Quantitation Reports for all Standards				
d. Raw QC Data				
BFB				
Blank Data				
Martix Spike/Matrix Spike Duplicate Data				

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. 27544 SDG NO. AQL49 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
5. **Semivolatiles Data**				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II SV)	NA	NA	OK	NA
MS/MSD Summary (Form III SV)				
Method Blank Summary (Form IV SV)				
GC/MS Instrument Performance Check (Form V SV)				
Internal Standard Area and RT Summary (Form VIII SV)				
b. Sample Data				
TCL Results - (Form I SV-1, SV-2)				
Tentatively Identified Compounds (Form I SV-TIC)				
Reconstructed total ion chromatograms (RIC) for each sample				
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds				
Quantitation reports				
Mass Spectra of TICs with three best library matches				
GPC chromatograms (if GPC is required)				
c. Standards Data (All Instruments)				
Initial Calibration Data (Form VI SV-1, SV-2)				
RICs and Quan Reports for all Standards				
Continuing Calibration Data (Form VII SV-1, SV-2)				
RICs and Quantitation Reports for all Standards				
d. Raw QC Data				
DFTPP				
Blank Data				
Matrix Spike/Matrix Spike Duplicate Data				
e. Raw GPC Data				
6. **Pesticides Data**				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II PEST)	08	08		✓
MS/MSD Duplicate Summary (Form III PEST)	NA	NA		NA
Method Blank Summary (Form IV PEST)	09	09		✓

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. 27544 SDG NO. AQL49 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. Pesticides Data (Cont.)				
b. Sample Data	10	19		
TCL Results - Organic Analysis Data Sheet (Form I PEST)			OK	✓
Chromatograms (Primary Column)				✓
Chromatograms from second GC column confirmation				✓
GC Integration report or data system printout				✓
Manual work sheets				✓
For pesticides/Aroclors by GC/MS, Copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)				✓
c. Standards Data	21	91		
Initial Calibration of Single Component Analytes (Form VI PEST-1 and PEST-2)				✓
Initial Calibration of Multicomponent Analytes (Form VI PEST-3)				✓
Analyte Resolution Summary (Form VI PEST-4)				✓
Performance Evaluation Mixture (Form VI PEST-5)				✓
Individual Standard Mixture A (FORM VI PEST-6)				✓
Individual Standard Mixture B (FORM VI PEST-7)				✓
Calibration Verification Summary (Form VII PEST-1)				✓
Calibration Verification Summary (Form VII PEST-2)				✓
Analytical Sequence (Form VIII PEST)				✓
Florisil Cartridge Check (Form IX PEST-1)				✓
Pesticide GPC Calibration (Form IX PEST-2)				✓
Pesticide Identification Summary for Single Component Analytes (Form X PEST-1)				✓
Pesticide Identification Summary for Multicomponent Analytes (Form X PEST-2)				✓
Chromatograms and data system printouts A printout of retention times and corresponding peak areas or peak heights				✓
d. Raw QC Data				
Blank Data	92	104		✓
Matrix Spke/Matrix Spike Duplicate Data	NA	NA	✓	NA

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. 27544 SDG NO. AQL49 SDG NOS. TO FOLLOW _____

SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. Pesticides Data (Cont.)				
e. Raw GPC Data	NA	NA	OK	NA
f. Raw Florisil Data	105	113		✓
7. Miscellaneous Data				
Original preparation and analysis forms or copies of preparation and analysis logbook pages	115	117		✓
Internal sample and sample extract transfer chain-of-custody records	119	119		✓
Screening records	NA	NA		NA
All instrument output, including strip charts from screening activities (describe or list)				
	NA	NA		NA
	NA	NA		NA
8. EPA Shipping/Receiving Documents				
Airbills (No. of shipments 1)	121	121		✓
Chain-of-Custody Records	122	122		✓
Sample Tags	123	128		✓
Sample Log-in Sheet (Lab & DC1)	129	130		✓
Miscellaneous Shipping/Receiving Records (describe or list)				
memo	131	131		✓
	NA	NA		NA
9. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	NA	NA		NA
	↓	↓		NA
10. Other Records (describe or list)				
Telephone Communication Log	NA	NA		NA
E-mail	132	132		✓
	NA	NA	↓	NA

11. Comments: _____

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. 27544 SDG NO. AQL49 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

Completed by: (CLP Lab)	Imelda M. Williams (Signature)	IMELDA M WILLIAMS/DATA CLERK (Printed Name/Title)	11/15/99 (Date)
Verified by: (CLP Lab)	[illegible] (Signature)	Jeff Cummins/Analyst (Printed Name/Title)	11/15/99 (Date)
Audited by: (EPA)	Lisa Kalykronsz (Signature)	Lisa Kalykronsz Data Validator (Printed Name/Title)	12/14/99 (Date)

M&E
AQUA ALLIANCE

MEMORANDUM

PROJECT NO:	J-020655-0002-005	**DATE:**	December 20, 1999
TO:	Standard Times Field Site File (BTSA)	**OFFICE:**	Wakefield
FROM:	L. Kulju Krowitz BJW for	**COMPANY:**	Metcalf & Eddy
REVIEWED BY:	C. Lapite		
CC:	B. Wyskowski, N. Thurber (memo only)		

SUBJECT: Limited QC Review/Modified Tier II-Like Review
Semivolatile and Pesticide/PCB Analytical Results
Southwest Laboratory, Broken Arrow, Oklahoma
Case 27436, SDG APF79

On September 28, 1999, 12 soil samples and 4 aqueous samples were collected at the Standard Times Field BTSA site, located in New Bedford, Massachusetts by Metcalf & Eddy field personnel. Due to an error in collection procedures, only one of the four aqueous samples collected is evaluated here. The remaining locations were re-sampled, and are evaluated in Case 27544, SDG AQL49. The sampling was performed as part of the BTSA RAC WA #-043-SISI-01ZZ. The samples were submitted to Southwest Laboratory, located in Broken Arrow, Oklahoma for the analysis of semivolatile organic compounds (SVOCs) and pesticide/polychlorinated biphenyls (PCBs). All samples were received by the laboratory on October 1, 1999. The data package was received in the M&E Office on October 20, 1999. Included in Attachment I is a copy of the chain-of-custody (COC) record.

M&E reviewed the data in accordance with the EPA-approved Final Field Task Work Plan for the site, and the guidance received from EPA Work Assignment Manager, Mr. James Byrne, in a September 17, 1999 letter to M&E Work Assignment Manager, Barb Wyskowski. The data review included:

*	Preservation and Technical Holding Times
*	GC/MS Instrument Performance Check
	Initial and Continuing Calibrations
	Blanks
	Surrogate Compounds
*	Internal Standards
	Matrix Spike (MS)/Matrix Spike Duplicates (MSD)
*	Field Duplicates
*	Laboratory Duplicates
*	Laboratory Fortified Blank (LFB) and/or Laboratory Control Sample (LCS)
	Compound Quantitation and Reported Quantitation Limits

*	=	All criteria met for this parameter
NA	=	Not applicable and/or no information was provided by the laboratory
NR	=	Not requested

Included in Attachment II are the result summary sheets, annotated with qualifiers, if necessary, as detailed in this memorandum.

Initial and Continuing Calibrations

The following table summarizes the initial (IC) and continuing calibration (CC) semivolatile organic analysis results that failed to meet the calibration criteria of %D<25 and %RSD<30, respectively:

Instrument	HP70F				
Calibration	IC 8/10/99	CC 10/5/99	CC 10/12/99	IC 10/13/99	CC 10/13/99
Compound	%RSD	%D	%D	%RSD	%D
2,4-dinitrophenol	31.3			30.9	41.8
hexachlorobutadiene				62.5	
2-methylnaphthalene		34.7	38.9		
hexachlorocyclopentadiene		32.8			102.5
2,2'-oxybis(1-chloropropane)			27.5		
bis(2-ethylhexyl)phthalate			27.4		
4,6-dinitro-2-methylphenol					30.7
Associated Samples:	APF79, APF80, APF81, APF82, APF83, APF84, APF85, APF86, APF87, APF88, APF89, APF90, APF90MS, APF90MSD	APF79, APF80, APF82, APF83, APF84, APF85, APF86, APF87, APF88, APF89, APF90, APF90MS, APF90MSD	APF81	APF81DL	APF81DL

%RSD >30, Estimate positive (J) results and nondetect (UJ) results. A bias cannot be determined.
%D >25, Estimate positive (J) results and nondetect (UJ) results. A bias cannot be determined.

The following table summarizes the CC pesticide/PCB analysis results that failed to meet the calibration criteria of %D<25% and 20% for breakdown of 4,4'-DDT or endrin:

Column	RTX-Pest	RTX-Pest2	RTX-Pest	RTX-Pest2
Calibration	10/14/99 1347		10/14/99 1412	
Compound	%D/%breakdown		%D/ %breakdown	
endrin breakdown	22.2	24.2	22.0	23.0
4,4'-DDT breakdown	20.5		21.4	24.5
combined breakdown	42.7	43.1	43.4	47.5
beta-BHC	26.6	33.6	33.6	40.4
endrin	30.1		35.9	31.6
4,4'-DDT	48.7	35.7	49.3	34.2
methoxychlor	45.4		44.4	
Associated Samples	APF79, APF80, APF81, APF82, APF83, APF84, APF85, APF86, APF87, APF88, APF89, APF90			

%D >25%, Estimate positive (J) results and nondetect (UJ) results. A bias cannot be determined.
%breakdown >20%, Estimate positive (J) results and nondetect (UJ) results. A bias cannot be determined.

Blanks

A review of laboratory blank analysis results indicates the presence of laboratory contamination for the SVOCs listed below. Positive sample results reported with concentrations less than the blank action limit for that compound are considered to be false positive results.

Compound	Blank Action Limit (µg/kg)	Affected Samples/Action
di-n-butylphthalate	210	Report CRQL with "U" APF79, APF81
bis(2-ethylhexyl)phthalate	260	Report CRQL with "U" APF79, APF80, APF87, APF88, APF89, APF90

Blank Actions:

* concentration ≤ QL; report QL on summary table as U.
* concentration > QL and < blank action level; report value qualified U.
* concentration > blank action level; report value unqualified.

Surrogate Compounds

The recoveries for the pesticide/PCB surrogate compounds that did not meet the acceptance criteria and the qualifications applied to the samples are summarized in the following table:

Sample ID	Surrogate % Recoveries				Action
	TCX1	TCX2	DCB1	DCB2	
APF79		291	262	165	Estimate positive (J) results, may be biased high
APF81				709	None, only one surrogate out of criteria
APF82			203	1356	Estimate positive (J) results, may be biased high
APF83	576	414	760	2105	Estimate positive (J) results, may be biased high
APF84			298	500	Estimate positive (J) results, may be biased high
APF85				299	None, only one surrogate out of criteria

Matrix Spike/Matrix Spike Duplicates

The pesticide/PCBs that did not meet the acceptance criteria in the MS/MSD analyses of pesticide/PCB aqueous sample APG52 are summarized in the following table:

Compound	MS Recovery (%)	MSD Recovery (%)	QC Limits (%)	Action
gamma-BHC	39	43	56-123	Estimate nondetect (UJ) result in sample APG52, may be a false negative result
heptachlor	28	34	40-131	Estimate positive (J) result in sample APG52, may be biased low
dieldrin	46	48	52-126	none - result considered nondetect due to poor dual column precision
endrin	50	55	56-121	Estimate nondetect (UJ) result in sample APG52, may be a false negative result
4,4'-DDT	28	30	38-127	Estimate positive (J) result in sample APG52, may be biased low

Compound Quantitation and Reported Quantitation Limits

A dual column difference or greater than 25 percent was found for several target compounds. The following table lists the compounds reported and the percent differences:

Sample Number	Compound	Percent Difference (%)	Action
APF79	heptachlor	967	Reject positive result, false positive result
	heptachlor epoxide	372	Reject positive result, false positive result
	endosulfan I	257	Reject positive result, false positive result
	dieldrin	200	Reject positive result, false positive result
	4,4'-DDE	45	Estimate positive result, bias not known
	endrin	155	Reject positive result, false positive result
	endosulfan II	50	Estimate positive result, bias not known

Sample Number	Compound	Percent Difference (%)	Action
APF79 (cont)	endrin aldehyde	400	Reject positive result, false positive result
	alpha-chlordane	39.5	Estimate positive result, bias not known
	gamma-chlordane	514	Reject positive result, false positive result
APF80	beta-BHC	515	Sample result less than CRQL, report CRQL, result considered nondetect
	endosulfan I	999.9	Reject positive result, false positive result
	dieldrin	999.9	Reject positive result, false positive result
	endrin	68.8	Estimate positive result, bias not known
	4,4'-DDD	325	Reject positive result, false positive result
	endosulfan sulfate	140	Reject positive result, false positive result
APF81	beta-BHC	999.9	Reject positive result, false positive result
	delta-BHC	464	Sample result less than CRQL, report CRQL, result considered to be nondetect
	heptachlor	278	Sample result less than CRQL, report CRQL, result considered to be nondetect
	heptachlor epoxide	200	Sample result less than CRQL, report CRQL, result considered to be nondetect
	endosulfan I	124	Sample result less than CRQL, report CRQL, result considered to be nondetect
	dieldrin	999.9	Reject positive result, false positive result
	4,4'-DDE	999.9	Reject positive result, false positive result
	endrin	332	Reject positive result, false positive result
	endosulfan II	999.9	Sample result less than CRQL, report CRQL, result considered to be nondetect
	4,4'-DDD	241	Reject positive result, false positive result
	endosulfan sulfate	355	Reject positive result, false positive result
	4,4'-DDT	202	Reject positive result, false positive result
	endrin aldehyde	58.2	Estimate positive result, bias not known

Sample Number	Compound	Percent Difference (%)	Action
APF81 (cont)	alpha-chlordane	173	Sample result less than CRQL, report CRQL, result considered to be nondetect
	gamma-chlordane	61.5	Estimate positive result, bias not known
APF82	beta-BHC	170	none - report result from APF82DL
	heptachlor epoxide	500	Reject positive result, false positive result
	endosulfan I	133	Reject positive result, false positive result
	dieldrin	482	none-report from APF82DL
	4,4'-DDE	60	none-report from APF82DL
	endosulfan sulfate	37	none-report from APF82DL
	4,4'-DDT	9.1	none-report from APF82DL
	methoxychlor	94.4	Estimate positive result, bias not known
	endrin ketone	44.6	none-report from APF82DL
	endrin aldehyde	186	Reject positive result, false positive result
	alpha-chlordane	806	Reject positive result, false positive result
	gamma-chlordane	81.8	Estimate positive result, bias not known
APF82DL	beta-BHC	144	Reject positive result, false positive result
	dieldrin	340	Reject positive result, false positive result
	4,4'-DDE	82.9	Estimate positive result, bias not known
	gamma-chlordane	479	Reject positive result, false positive result
APF83	dieldrin	387	Reject positive result, false positive result
	4,4'-DDE	775	Reject positive result, false positive result
	endrin	100	Reject positive result, false positive result
	endosulfan sulfate	50	Estimate positive result, bias not known
	4,4'-DDT	144	Reject positive result, false positive result
	methoxychlor	583	Reject positive result, false positive result
	endrin ketone	71.4	Estimate positive result, bias not known

Sample Number	Compound	Percent Difference (%)	Action
APF83DL	gamma-chlordane	115	Reject positive result, false positive result
APF84	dieldrin	999.9	Reject positive result, false positive result
	4,4'-DDE	451	Reject positive result, false positive result
	4,4'-DDD	72.4	none - report from APF84DL
	endosulfan sulfate	37.5	Estimate positive result, bias not known
	4,4'-DDT	188	Reject positive result, false positive result
	methoxychlor	155	Reject positive result, false positive result
	endrin ketone	123	Reject positive result, false positive result
	gamma-chlordane	32.4	Estimate positive result, bias not known
APF85	heptachlor epoxide	355	Reject positive result, false positive result
	dieldrin	267	Reject positive result, false positive result
	4,4'-DDE	68.4	Estimate positive result, bias not known
	4,4'-DDD	686	Reject positive result, false positive result
	4,4'-DDT	171	Reject positive result, false positive result
	gamma-chlordane	294	Sample result less than CRQL, report CRQL, result considered to be nondetect
	Aroclor-1254	66.7	Estimate positive result, bias not known
APF86	heptachlor epoxide	330	Reject positive result, false positive result
	dieldrin	227	Reject positive result, false positive result
	4,4'-DDE	150	Reject positive result, false positive result
	4,4'-DDD	999.9	Reject positive result, false positive result
	endosulfan sulfate	669	Reject positive result, false positive result
	gamma-chlordane	115	Reject positive result, false positive result
APF86DL	4,4'-DDT	26.5	Estimate positive result, bias not known

Sample Number	Compound	Percent Difference (%)	Action
APF87	endosulfan I	999.9	Sample result less than CRQL, report CRQL, result considered to be nondetect
	4,4'-DDT	95.7	Estimate positive result, bias not known
APF88	heptachlor	41.4	Estimate positive result, bias not known
	dieldrin	162	Sample result less than CRQL, report CRQL, result considered to be nondetect
	4,4'-DDE	115	Sample result less than CRQL, report CRQL, result considered to be nondetect
APF89	heptachlor	45.2	Estimate positive result, bias not known
	endosulfan I	999.9	Sample result less than CRQL, report CRQL, result considered to be nondetect
	dieldrin	173	Sample result less than CRQL, report CRQL, result considered to be nondetect
	4,4'-DDE	113	Sample result less than CRQL, report CRQL, result considered to be nondetect
	4,4'-DDT	95.5	Estimate positive result, bias not known
	methoxychlor	653	Sample result less than CRQL, report CRQL, result considered to be nondetect
APF90	hetpachlor	59.4	Estimate positive result, bias not known
	dieldrin	121	Sample result less than CRQL, report CRQL, result considered to be nondetect
	4,4'-DDE	111	Sample result less than CRQL, report CRQL, result considered to be nondetect
	4,4'-DDT	78.7	Estimate positive result, bias not known
APG52	delta-BHC	270	Sample result less than CRQL, report CRQL, result considered to be nondetect
	heptachlor	27.1	Estimate positive result, bias not known
	heptachlor epoxide	718	Sample result less than CRQL, report CRQL, result considered to be nondetect

Sample Number	Compound	Percent Difference (%)	Action
APG52 (cont)	endosulfan I	185	Sample result less than CRQL, report CRQL, result considered to be nondetect
	dieldrin	409	Sample result less than CRQL, report CRQL, result considered to be nondetect
	4,4'-DDT	26.7	Estimate positive result, bias not known
	Aroclor-1254	30.8	Estimate positive result, bias not known

%D >25%, but <100%, and sample result >CRQL, estimate (J) positive result
%D >100%, and sample result >CRQL, reject (R) positive result
%D >25%, but <100%, and sample result <CRQL, remove sample result and replace with CRQL

EPA-NE
Data Validation Worksheet Cover Page - Page 1

Site Name Standard Times Field
Reference No. J-020655-0002-005

REGION I ORGANIC DATA VALIDATION

The following data package has been validated:

Lab Name SWL-TULSA
Case/Project No. 27436
SDG No. APF79
No. of Samples/Matrix 12 soil SVOA
12 soil/4 aq Pest/PCB

SOW/Method No. OLM03.2
Sampling Date(s) 9/28/99
Shipping Date(s) 9/30/99
Date Rec'd by lab 10/1/99

Traffic Report Sample Nos. APF79, -80, -81, -82, -83, -84, -85, -86, -87, -88, -89, -90, - APF51, -52, ~~-53, -54~~, LLK 12/10/99
APF51, -53, -54 were reanalyzed as part of Case 27544 SDG AQL49

Trip Blank No. none
Equipment Blank No. none
Bottle Blank No. none
Field Duplicate Nos. APF88, APF89
PES Nos. none

The Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, revision 12/96 was used to evaluate the data and/or approved modifications to the EPA-NE Functional Guidelines were used to evaluate the data and are attached to this cover page: (attach modified criteria from EPA approved QAPjP or amendment to QAPjP).

A Tier II or Tier III evaluation was used to validate the data (circle one). If a Tier II validation with a partial Tier III was used, then identify samples, parameters, etc. that received partial Tier III validation

Modified Tier I/Tier II.

The data were evaluated based upon the following parameters:

Cooler T = 1, 4.8 °C

NA - not applicable
NE - not evaluated

ok - Overall Evaluation of Data
ok - Data Completeness (CSF Audit - Tier I)
ok - Preservation & Technical Holding Times
ok - GC/MS & GC/ECD Instrument Performance Check
* - Initial & Continuing Calibrations
* - Blanks
ok SVOA/PP - Surrogate Compounds
ok - Internal Standards
ok SVOA/PP - Matrix Spike/Matrix Spike Duplicate
* - Pest Breakdown
ok - Pest Resolution
ok - Field Duplicates
NA - Sensitivity Check
NA - PE Samples/Accuracy Check
NE - Target Compound Identification
* - Compound Quantitation and Reported Quantitation Limits
ok - TICs
ok - Semivolatile and Pesticide/PCB Cleanup (Florisil + GPC)
ok - System Performance
ok - Perm Pest
* worksheet completed since QC issues

Region I Definitions and Qualifiers:

A - Acceptable Data
J - Numerical value associated with compound is an estimated quantity.
R - The data are rejected as unusable. The R replaces the numerical value or sample quantitation limit.
U - Compound not detected at that numerical sample quantitation limit.
UJ - The sample quantitation limit is an estimated quantity.
TB, BB, EB - Compound detected in aqueous trip blank, aqueous bottle blank, or aqueous equipment blank associated with soil/sediment samples.

Validator's Name Lisa Kulp Kranz Company Name Metcalf & Eddy Phone Number 781-246-5200

Date Validation Started 12/9/99 Date Validation Completed 12/14/99

Check if all criteria are met and no hard copy worksheet provided. Indicate NA if worksheet is not applicable to analytical method. Note: there is no standard worksheet for System Performance, however, the validator must document all system performance issues in the Data Validation Memorandum.

VOA/SV worksheets:

VOA/SV-Pest/PCB	COMPLETE SDG FILE (CSF) AUDIT	LKK NA ✓
VOA/SV-Pest/PCB-I	PRESERVATION AND HOLDING TIMES	✓
VOA/SV-II	GC/MS INSTRUMENT PERFORMANCE CHECK (TUNING)	✓
VOA/SV-III	INITIAL CALIBRATION	
VOA/SV-IV	CONTINUING CALIBRATION	
VOA/SV-Pest/PCB-V-A	BLANK ANALYSIS	
VOA/SV-Pest/PCB-V-B	BLANK ANALYSIS	
VOA-VI	VOA SURROGATE SPIKE RECOVERIES	NA
SV-VI	SV SURROGATE SPIKE RECOVERIES	
VOA/SV-VII	INTERNAL STANDARD PERFORMANCE	✓
VOA/SV-Pest/PCB-VIII	MATRIX SPIKE/MATRIX SPIKE DUPLICATE	✓
VOA/SV-Pest/PCB-IX	FIELD DUPLICATE PRECISION	✓
VOA/SV-Pest/PCB-X	SENSITIVITY CHECK	NA
VOA/SV-Pest/PCB-XI	ACCURACY CHECK	NA
VOA/SV-Pest/PCB-XII	TARGET COMPOUND IDENTIFICATION	NA
VOA/SV-Pest/PCB-XIII	SAMPLE QUANTITATION	NA
VOA/SV-XIV	TENTATIVELY IDENTIFIED COMPOUNDS	NA
VOA/SV-XV	SEMIVOLATILE CLEANUP	✓
TABLE II-WORKSHEET	OVERALL EVALUATION OF DATA	✓

Pest/PCB worksheets:

VOA/SV-Pest/PCB	COMPLETE SDG FILE (CSF) AUDIT	
VOA/SV-Pest/PCB-I	PRESERVATION AND HOLDING TIMES	✓
Pest/PCB-IIA	GC/ECD INSTRUMENT PERFORMANCE CHECK-RESOLUTION	✓
Pest/PCB-IIB	GC/ECD INSTRUMENT PERFORMANCE CHECK-RETENTION TIMES	✓
Pest/PCB-IIC	GC/ECD INSTRUMENT PERFORMANCE CHECK-ACCURACY CHECK OF INITIAL CALIBRATION	✓
Pest/PCB-IID	GC/ECD INSTRUMENT PERFORMANCE CHECK-PESTICIDE DEGRADATION	✓
Pest/PCB-III	INITIAL CALIBRATION	✓
Pest/PCB-IV	CONTINUING CALIBRATION	
VOA/SV-Pest/PCB-V-A	BLANK ANALYSIS	✓
VOA/SV-Pest/PCB-V-B	BLANK ANALYSIS	✓
Pest/PCB-VI	SURROGATE COMPOUNDS: SPIKE RECOVERIES AND RETENTION TIME SHIFT	
Pest/PCB-VII	PESTICIDE CLEANUP	✓
VOA/SV-Pest/PCB-VIII	MATRIX SPIKE/MATRIX SPIKE DUPLICATE	
VOA/SV-Pest/PCB-IX	FIELD DUPLICATE PRECISION	✓
VOA/SV-Pest/PCB-X	SENSITIVITY CHECK	NA
VOA/SV-Pest/PCB-XI	ACCURACY CHECK	NA
Pest/PCB-XII	COMPOUND IDENTIFICATION	
VOA/SV-Pest/PCB-XIII	SAMPLE QUANTITATION	NA
TABLE II-WORKSHEET	OVERALL EVALUATION OF DATA	✓

I certify that all criteria were met for the worksheets checked above.

Signature: Lisa Kulgikowski Name: Lisa Kulgikowski

Date: 12/14/99

EPA-NE - Data Validation Worksheet
VOA/SV-III

III. INITIAL CALIBRATION - List all analytes that are outside calibration criteria.

Date of ICAL	Instrument	Parameter	Matrix	Compound	% RSD	RRF	Samples Affected	Action
8/10/99	HP70F	SVOC	aq	2,4-dinitrophenol	31.3	ok	APF87, -88, -89, -90, +90 MS/MSD, -79, -80, -82, -83, -84, -85, -86, -81	J/UJ
10/3/99	HP70F	SVOC	aq	hexachlorobutadiene	62.5	ok	APF81DL, ~~APF8~~ LLK 12/16/99	J/UJ
				2,4-dinitrophenol	30.9	ok	↓	↓

Comments:

Validator: [signature] Date: 12/9/99

EPA-NE - Data Validation Worksheet
VOA/SV-IV

IV. CONTINUING CALIBRATION - List all analytes that are outside calibration criteria.

Date of ICAL	Date of CCAL	Instrument	Parameter	Matrix	Compound	%D	RRF	Samples Affected	Action
8/10/99	10/5/99	HP70F	SVOC		2-methylnaphthalene	34.7	ok	APF87, -88, -89, -90, -90MS/MSD, -79 -80, -82, -83, -84, -85, -86, ~~-87~~ 12/16/99	J/UJ
↓	↓	↓	↓		hexachlorocyclopentadiene	32.8	ok	↓	↓
8/10/99	10/12/99				2,2'-oxybis(1-chloropropane)	27.5	ok	APF87	
↓	↓				2-methylnaphthalene	38.9	ok	↓	
↓	↓				bis(2-ethylhexyl) phthalate	27.4	ok	↓	
10/13/99	10/13/99				hexachlorocyclopentadiene	102.5	ok	APF81DL	
↓	↓				2,4-dinitrophenol	41.8	ok	↓	
↓	↓	↓	↓		4,6-dinitro-2-methylphenol	30.9	ok	↓	↓

Comments:

Validator: Lisa Kilgallen

Date: 12/9/99

EPA-NE - Data Validation Worksheet
VOA/SV/Pest/PCB-V-A

V. BLANK ANALYSIS

List the blank contamination below. Concentration Level: low

Sampler: C. Lapile Company: Metcalf + Eddy Contacted: Yes No Date:

1. Laboratory: Method, Storage and Instrument Blanks

Date Extracted	Date Analyzed	Parameter/ Matrix	Sample No. (Blank Type)	Instrument/ Column	Compound	Conc. (units)
10/1/99	10/5/99	SVOC soil	SBLK1	HP70F	di-n-butyl phthalate	21 ug/kg
↓	↓	↓	↓	↓	bis(2-ethylhexyl) phthalate	24 ↓
10/6/99	10/12/99		SBLK2		bis(2-ethylhexyl) phthalate	26

2. Field: Equipment (Rinsate), Trip and Bottle Blanks

Date Extracted	Date Analyzed	Parameter/ Matrix	Sample No. (Blank Type)	Instrument/ Column	Compound	Conc. (units)

Validator: Lisa Kulgillowski Date: 12/9/99

EPA-NE - Data Validation Worksheet
VOA/SV - Pest/PCB-V-B

3. Blank Actions - List the maximum concentrations of blank compounds.

Compound	Type of Blank	Date Blank Sampled/Originated	Max. Conc. (units)	Action Level (units)	Sample QL	Samples Affected	Action
di-n-butylphthalate	MB	10/1/99	21 ug/kg	210 ug/kg		all	U(+)
bis(2-ethylhexyl)phthalate	↓	10/6/99	26 ↓	260 ↓		↓	↓

Comments: _____

Validator: Lisa Kulzikowski Date: 12/9/99

EPA-NE - Data Validation Worksheet
~~VOA-VI~~

VI. ~~VOA~~ SURROGATE SPIKE RECOVERIES - List all surrogate compound recoveries that are outside method QC acceptance criteria.
Pest/PCB

Method	Volatile Method QC Acceptance Criteria				
	~~Toluene-d_8~~ TCX1	~~BFB~~ TCX2	~~DCE-d_4~~ DCB1	~~Other:~~ DCB2	
OLM03.2	Water 88-110 / Soil 84-138	Water 86-115 / Soil 59-113	Water 76-114 / Soil 70-121		
OLC02.1	NA	80-120	NA		
Other:	30-150	30-150	30-150	30-150	
Sample Number/Matrix	**% Recovery**	**% Recovery**	**% Recovery**	**% Recovery**	**Action**
APF79		291	262	165	J(4)
APF81				709	none
APF82			303	1356	J(4)
APF83	576	414	760	2105	J(4)
APF84			298	500	J(4)
APF85				299	none

Validator: [signature]

Date: 12/10/99

EPA-NE - Data Validation Worksheet
VOA/SV - Pest/PCB-VIII

VIII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE - List all MS/MSD analytes that are outside method QC acceptance criteria.

Use a separate worksheet for each MS/MSD pair.

Sample # APG52 Matrix sf Concentration Level low

Parameter	Compound	MS %Rec	MSD %Rec	RPD	Method QC Limits		Concentration			% RSD	Action
					% Rec	RPD	Unspiked Sample	MS	MSD		
Pest	gamma-BHC	39	43	ok	56-123	ok					J/UJ
	heptachlor	28	34		40-131						
	aldrin	ok	ok								
	dieldrin	46	48		52-126						
	endrin	50	55		56-121						
	4,4'-DDT	28	30		38-127						

Validator: Lisa Kulp Kong Date: 12/10/99

PESTICIDE RESOLUTION CHECK
(CLP FORM 6G)

List the resolution between adjacent single peak pesticides in the resolution check mix that are less than 60.0% on either chromatographic column.

Analysis Date	Column	Compounds	%Resolution	Affected Samples

List the validation actions taken below. If there were no positive results for the poorly resolved peaks no action is required.

PESTICIDE CALIBRATION VERIFICATION
(CONTINUING CALIBRATION CLP FORMS 7D,7E)

List the percent difference for the pesticide compounds that exceed 25%. List the percent breakdown for 4,4'-DDT or Endrin that exceed 20.0% or the combined breakdown of these two compounds that exceed 30.0%.

Analysis Date	Column	Compound	%D/Breakdown	Affected Samples	Action
		4,4-DDT break	20.5		
		endrin break	22.2		
10/14/99 1347	RTX-Pest	combined breakdown	42.7	APF79, -80, -81, -82	I/US
		beta-BHC	26.6	-83, -84, -85, -86	
		endrin	30.1	-87, -88, -89, -90	
		4,4-DDT	48.7		
		methoxychlor	45.4		
	RTX-Pest 2	endrin	34.2		
		combined breakdown	43.1		
		beta-BHC	33.6		
		4,4-DDT	35.7		
		~~methoxychlor~~	~~2~~ LKK 12/10/99		

List the validation actions taken below.

page 2 of 2

PESTICIDE RESOLUTION CHECK
(CLP FORM 6G)

List the resolution between adjacent single peak pesticides in the resolution check mix that are less than 60.0% on either chromatographic column.

Analysis Date	Column	Compounds	%Resolution	Affected Samples

List the validation actions taken below. If there were no positive results for the poorly resolved peaks no action is required.

PESTICIDE CALIBRATION VERIFICATION
(CONTINUING CALIBRATION CLP FORMS 7D,7E)

List the percent difference for the pesticide compounds that exceed 25%. List the percent breakdown for 4,4'-DDT or Endrin that exceed 20.0% or the combined breakdown of these two compounds that exceed 30.0%.

Analysis Date	Column	Compound	%D/Breakdown RTX-Pest	%D/Breakdown RTX-Pest 2	Affected Samples
10/14/99 1412	RTX-Pest	beta-BHC	33.6	40.4	APF79, -80, -81, -82, -83, -84, -85, -86, -87, -88, -89, -90
↓	↓	endrin	35.9	31.6	
		4,4'-DDT	49.3	34.2	
		methoxychlor	44.4	ok	
		4,4'-DDT breakdown	21.4	23.0	
		endrin	22.0	24.5	
		combined ↓	43.4	47.5	

List the validation actions taken below.

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF79

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Lab Sample ID: 40521.01 Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	
beta-BHC	1	8.56	8.48	8.58	4.7		
	2	8.62	8.54	8.64	3.9	20.5	
Heptachlor	1	9.28	9.22	9.32	3.0		
	2	9.21	9.20	9.30	32	967	R(+)
Heptachlor epoxide	1	11.00	10.91	11.05	5.3		
	2	10.93	10.84	10.98	25	372	R(+)
Endosulfan I	1	11.66	11.61	11.75	9.8		
	2	11.67	11.53	11.67	35	257	R(+)
Dieldrin	1	12.11	12.04	12.18	21		
	2	12.07	12.02	12.16	63	200	R(+)
4,4'-DDE	1	11.58	11.53	11.67	20		
	2	11.87	11.77	11.91	29	45.0	J(+)
Endrin	1	12.50	12.45	12.59	11		
	2	12.66	12.55	12.69	28	155	R(+)
Endosulfan II	1	12.90	12.85	12.99	4.0		
	2	12.93	12.92	13.06	6.0	50.0	J(+)

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF79

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Lab Sample ID: 40521.01 Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	
Endosulfan sulfate	1	14.48	14.34	14.48	14		
	2	14.04	13.99	14.13	13	7.7	
4,4'-DDT	1	13.08	13.07	13.21	100		
	2	13.38	13.31	13.45	82	22.0	
Methoxychlor	1	14.01	13.91	14.05	47		
	2	14.58	14.51	14.65	40	17.5	
Endrin aldehyde	1	13.71	13.59	13.73	3.4		
	2	13.63	13.51	13.65	17	400	R(+)
alpha-Chlordane	1	11.42	11.37	11.51	12		
	2	11.51	11.44	11.58	8.6	39.5	J(+)
gamma-Chlordane	1	11.20	11.13	11.27	4.4		
	2	11.26	11.18	11.32	27	514	R(+)
	1						
	2						
	1						
	2						

page 2 of 2

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF80

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Lab Sample ID: 40521.02 Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	
beta-BHC	1	8.56	8.48	8.58	8.0		
	2	8.55	8.54	8.64	1.3	515	Report CROL
Endosulfan I	1	11.68	11.61	11.75	2.3		
	2	11.67	11.53	11.67	39	999.9	R(+)
Dieldrin	1	12.11	12.04	12.18	2.2		
	2	12.03	12.02	12.16	32	999.9	R(+)
Endrin	1	12.45	12.45	12.59	7.7		
	2	12.67	12.55	12.69	13	68.8	J(T)
4,4'-DDD	1	12.59	12.58	12.72	51		
	2	12.80	12.78	12.92	12	325	R(+)
Endosulfan sulfate	1	14.47	14.34	14.48	24		
	2	14.04	13.99	14.13	10	140	R(+)
4,4'-DDT	1	13.14	13.07	13.21	11		
	2	13.39	13.31	13.45	13	18.2	
Methoxychlor	1	13.99	13.91	14.05	53		
	2	14.58	14.51	14.65	56	5.7	

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF80

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Lab Sample ID: 40521.02 Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	
Endrin ketone	1	14.87	14.83	14.97	20		
	2	15.02	14.91	15.05	17	17.6	
Endrin aldehyde	1	13.63	13.59	13.73	7.0		
	2	13.63	13.51	13.65	10	42.9	J(+)
	1						
	2						
	1						
	2						
	1						
	2						
	1						
	2						
	1						
	2						
	1						
	2						

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF81

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Lab Sample ID: 40521.03 Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	
beta-BHC	1	8.56	8.48	8.58	49		
	2	8.55	8.54	8.64	2.6	999.9	R(+)
delta-BHC	1	8.84	8.82	8.92	0.55		
	2	9.13	9.10	9.20	3.1	464	Report CRQL
Heptachlor	1	9.24	9.22	9.32	1.4		
	2	9.24	9.20	9.30	0.37	278	Report CRQL
Heptachlor epoxide	1	11.00	10.91	11.05	1.7		
	2	10.94	10.84	10.98	5.1	200	Report CRQL
Endosulfan I	1	11.67	11.61	11.75	2.2		
	2	11.58	11.53	11.67	0.98	124	Report CRQL
Dieldrin	1	12.12	12.04	12.18	5.2		
	2	12.03	12.02	12.16	110	999.9	R(+)
4,4'-DDE	1	11.58	11.53	11.67	4.8		
	2	11.87	11.77	11.91	54	999.9	R(+)
Endrin	1	12.45	12.45	12.59	19		
	2	12.66	12.55	12.69	4.4	332	R(+)

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF81

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Lab Sample ID: 40521.03 Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	
Endosulfan II	1	12.91	12.85	12.99	2.2		
	2	13.01	12.92	13.06	27	999.9	Report CRQL
4,4'-DDD	1	12.60	12.58	12.72	140		
	2	12.80	12.78	12.92	41	241	R(4)
Endosulfan sulfate	1	14.40	14.34	14.48	30		
	2	14.05	13.99	14.13	6.6	355	R(4)
4,4'-DDT	1	13.14	13.07	13.21	9.6		
	2	13.38	13.31	13.45	29	202	R(4)
Endrin ketone	1	14.87	14.83	14.97	47		
	2	15.02	14.91	15.05	50	6.4	
Endrin aldehyde	1	13.64	13.59	13.73	5.5		
	2	13.56	13.51	13.65	8.7	58.2	J(4)
alpha-Chlordane	1	11.51	11.37	11.51	0.66		
	2	11.50	11.44	11.58	1.8	173	Report CRQL
gamma-Chlordane	1	11.17	11.13	11.27	4.2		
	2	11.27	11.18	11.32	2.6	61.5	J(4)

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF82

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Lab Sample ID: 40521.04 Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	
beta-BHC	1	8.56	8.48	8.58	89		
	2	8.63	8.54	8.64	33	170	Report from APF82DL
Heptachlor epoxide	1	11.00	10.91	11.05	20		
	2	10.94	10.84	10.98	120	500	R(H)
Endosulfan I	1	11.66	11.61	11.75	42		
	2	11.67	11.53	11.67	18	133	R(H)
Dieldrin	1	12.12	12.04	12.18	67		
	2	12.07	12.02	12.16	390	482	Report from APF82DL
4,4'-DDE	1	11.58	11.53	11.67	100		
	2	11.87	11.77	11.91	160	60.0	
Endosulfan sulfate	1	14.40	14.34	14.48	73		
	2	14.06	13.99	14.13	100	37.0	
4,4'-DDT	1	13.09	13.07	13.21	360		
	2	13.39	13.31	13.45	330	9.1	
Methoxychlor	1	14.02	13.91	14.05	180		
	2	14.63	14.51	14.65	350	94.4	J(H)

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF82

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Lab Sample ID: 40521.04 Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	
Endrin ketone	1	14.87	14.83	14.97	83		
	2	15.03	14.91	15.05	120	44.6	Report from APF82XL
Endrin aldehyde	1	13.59	13.59	13.73	140		
	2	13.56	13.51	13.65	49	186	R(4)
alpha-Chlordane	1	11.51	11.37	11.51	48		
	2	11.51	11.44	11.58	5.3	806	R(4)
gamma-Chlordane	1	11.16	11.13	11.27	66		
	2	11.27	11.18	11.32	120	81.8	J(4)
	1						
	2						
	1						
	2						
	1						
	2						
	1						
	2						

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10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF82DL

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Lab Sample ID: 40521.04DL Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	
alpha-BHC	1	7.70	7.64	7.74	10		
	2	7.69	7.64	7.74	16	60.0	
beta-BHC	1	8.56	8.48	8.58	100		
	2	8.63	8.54	8.64	41	144	R(+)
Heptachlor	1	9.24	9.22	9.32	12		
	2	9.29	9.20	9.30	23	91.7	
Heptachlor epoxide	1	11.00	10.91	11.05	8.0		
	2	10.93	10.84	10.98	120	999.9	
Endosulfan I	1	11.66	11.61	11.75	27		
	2	11.67	11.53	11.67	21	28.6	
Dieldrin	1	12.12	12.04	12.18	75		
	2	12.07	12.02	12.16	330	340	R(+)
4,4'-DDE	1	11.58	11.53	11.67	82		
	2	11.87	11.77	11.91	150	82.9	J(+)
Endrin	1	12.50	12.45	12.59	14		
	2	12.66	12.55	12.69	38	171	

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

APF82

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Lab Sample ID: 40521.04 Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D	
Aroclor-1254 COLUMN 1	1	11.51	11.43	11.57	1484			
	2	12.12	12.05	12.19	1150			
	3	12.28	12.21	12.35	1545			
	4	12.60	12.53	12.67	2667			
	5	13.09	13.02	13.16	1758	1700		
COLUMN 2	1	11.27	11.20	11.34	1464			
	2	11.87	11.80	11.94	2942			
	3	12.07	12.00	12.14	3428			
	4	12.41	12.34	12.48	1095			
	5	13.39	13.31	13.45	2188	2200	29.4	J(+)
_____ COLUMN 1	1							
	2							
	3							
	4							
	5							
COLUMN 2	1							
	2							
	3							
	4							
	5							
_____ COLUMN 1	1							
	2							
	3							
	4							
	5							
COLUMN 2	1							
	2							
	3							
	4							
	5							

At least 3 peaks for each column are required for identification of multicomponent analytes

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF82DL

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Lab Sample ID: 40521.04DL Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	
Endosulfan II	1	12.90	12.85	12.99	16		
	2	12.94	12.92	13.06	8.5	88.2	
Endosulfan sulfate	1	14.39	14.34	14.48	27		
	2	14.05	13.99	14.13	22	22.7	✓
4,4'-DDT	1	13.09	13.07	13.21	350		
	2	13.38	13.31	13.45	300	16.7	✓
Methoxychlor	1	14.01	13.91	14.05	57		
	2	14.62	14.51	14.65	110	93.0	
Endrin ketone	1	14.87	14.83	14.97	60		
	2	15.02	14.91	15.05	66	10.0	✓
gamma-Chlordane	1	11.16	11.13	11.27	19		
	2	11.27	11.18	11.32	110	479	R(4)
	1						
	2						
	1						
	2						

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PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF83

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Lab Sample ID: 40521.05 Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	
Dieldrin	1	12.13	12.04	12.18	15		
	2	12.08	12.02	12.16	73	387	R(+)
4,4'-DDE	1	11.60	11.53	11.67	16		
	2	11.89	11.77	11.91	140	775	R(+)
Endrin	1	12.57	12.45	12.59	11		
	2	12.68	12.55	12.69	22	100	R(+)
Endosulfan sulfate	1	14.42	14.34	14.48	12		
	2	14.08	13.99	14.13	18	50.0	J(+)
4,4'-DDT	1	13.10	13.07	13.21	41		
	2	13.40	13.31	13.45	100	144	R(+)
Methoxychlor	1	13.95	13.91	14.05	120		
	2	14.55	14.51	14.65	820	583	R(+)
Endrin ketone	1	14.88	14.83	14.97	96		
	2	14.94	14.91	15.05	56	71.4	J(+)
Endrin aldehyde	1	13.60	13.59	13.73	61		
	2	13.58	13.51	13.65	50	22.0	

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF83

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Lab Sample ID: 40521.05 Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-Chlordane	1	11.21	11.13	11.27	44	
	2	11.27	11.18	11.32	49	11.4
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

Report from APF83DL

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PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF83DL

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Lab Sample ID: 40521.05DL Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
alpha-BHC	1	7.65	7.64	7.74	13	
	2	7.65	7.64	7.74	20	53.8
Heptachlor epoxide	1	11.00	10.91	11.05	4.6	
	2	10.94	10.84	10.98	23	400
Dieldrin	1	12.12	12.04	12.18	20	
	2	12.07	12.02	12.16	79	295
4,4'-DDE	1	11.58	11.53	11.67	17	
	2	11.87	11.77	11.91	170	900
Endrin	1	12.54	12.45	12.59	19	
	2	12.66	12.55	12.69	18	5.6
Endosulfan II	1	12.91	12.85	12.99	10	
	2	13.01	12.92	13.06	96	860
Endosulfan sulfate	1	14.39	14.34	14.48	12	
	2	14.06	13.99	14.13	44	267
4,4'-DDT	1	13.09	13.07	13.21	54	
	2	13.38	13.31	13.45	89	64.8

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF83DL

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Lab Sample ID: 40521.05DL Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Endrin ketone	1	14.87	14.83	14.97	92	
	2	15.02	14.91	15.05	120	30.4
alpha-Chlordane	1	11.50	11.37	11.51	8.4	
	2	11.51	11.44	11.58	8.6	2.4
gamma-Chlordane	1	11.17	11.13	11.27	28	
	2	11.27	11.18	11.32	13	115 RCH
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF84

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Lab Sample ID: 40521.06 Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	
Dieldrin	1	12.11	12.04	12.18	10		
	2	12.04	12.02	12.16	120	999.9	R(4)
4,4'-DDE	1	11.58	11.53	11.67	6.9		
	2	11.87	11.77	11.91	38	451	R(4)
4,4'-DDD	1	12.60	12.58	12.72	150		
	2	12.80	12.78	12.92	87	72.4	~~J(4)~~ Report from APF84DL
Endosulfan sulfate	1	14.39	14.34	14.48	8.0		
	2	14.04	13.99	14.13	11	37.5	J(4)
4,4'-DDT	1	13.09	13.07	13.21	16		
	2	13.38	13.31	13.45	46	188	R(4)
Methoxychlor	1	13.97	13.91	14.05	47		
	2	14.59	14.51	14.65	120	155	R(4)
Endrin ketone	1	14.85	14.83	14.97	49		
	2	15.02	14.91	15.05	22	123	R(4)
Endrin aldehyde	1	13.63	13.59	13.73	12		
	2	13.63	13.51	13.65	12	0.0	

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF84

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Lab Sample ID: 40521.06 Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	
gamma-Chlordane	1	11.16	11.13	11.27	3.7		
	2	11.27	11.18	11.32	4.9	32.4	J(4)
	1						
	2						
	1						
	2						
	1						
	2						
	1						
	2						
	1						
	2						
	1						
	2						
	1						
	2						

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10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF84DL

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Lab Sample ID: 40521.06DL Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Dieldrin	1	12.11	12.04	12.18	18	
	2	12.06	12.02	12.16	42	133
4,4'-DDD	1	12.60	12.58	12.72	73	
	2	12.80	12.78	12.92	73	0.0
4,4'-DDT	1	13.09	13.07	13.21	3.2	
	2	13.38	13.31	13.45	55	999.9
Endrin ketone	1	14.87	14.83	14.97	29	
	2	14.93	14.91	15.05	15	93.3
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF85

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Lab Sample ID: 40521.07 Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	
Heptachlor epoxide	1	10.99	10.91	11.05	2.0		
	2	10.93	10.84	10.98	9.1	355	R(+)
Dieldrin	1	12.11	12.04	12.18	12		
	2	12.05	12.02	12.16	44	267	R(+)
4,4'-DDE	1	11.60	11.53	11.67	38		
	2	11.85	11.77	11.91	64	68.4	J(+)
4,4'-DDD	1	12.60	12.58	12.72	110		
	2	12.84	12.78	12.92	14	686	R(+)
4,4'-DDT	1	13.14	13.07	13.21	35		
	2	13.38	13.31	13.45	95	171	R(+)
Endrin ketone	1	14.87	14.83	14.97	22		
	2	15.02	14.91	15.05	21	4.8	
gamma-Chlordane	1	11.20	11.13	11.27	1.7		
	2	11.27	11.18	11.32	6.7	294	Report CRQL
	1						
	2						

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10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

APF85

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Lab Sample ID: 40521.07 Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	11.50	11.43	11.57	150		
Aroclor-1254	2	12.11	12.05	12.19	258		
	3	12.28	12.21	12.35	125		
COLUMN 1	4	12.60	12.53	12.67	1018		
	5	13.09	13.02	13.16	275	360	
	1	11.27	11.20	11.34	128		
	2	11.85	11.80	11.94	1179		
	3	12.03	12.00	12.14	894		
COLUMN 2	4	12.41	12.34	12.48	186		
	5	13.38	13.31	13.45	643	600	66.7 J(4)
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF86

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Lab Sample ID: 40521.08 Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	
Heptachlor epoxide	1	11.00	10.91	11.05	2.0		
	2	10.93	10.84	10.98	8.6	330	R(4)
Dieldrin	1	12.11	12.04	12.18	9.8		
	2	12.06	12.02	12.16	32	227	R(4)
4,4'-DDE	1	11.59	11.53	11.67	12		
	2	11.87	11.77	11.91	30	150	R(4)
4,4'-DDD	1	12.60	12.58	12.72	100		
	2	12.84	12.78	12.92	7.1	999.9	R(4)
Endosulfan sulfate	1	14.48	14.34	14.48	30		
	2	14.05	13.99	14.13	3.9	669	R(4)
4,4'-DDT	1	13.09	13.07	13.21	67		
	2	13.38	13.31	13.45	62	8.1	Report from APF86DL
Endrin ketone	1	14.86	14.83	14.97	12		
	2	15.02	14.91	15.05	10	20.0	
gamma-Chlordane	1	11.16	11.13	11.27	4.0		
	2	11.27	11.18	11.32	8.6	115	R(4)

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PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF86DL

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Lab Sample ID: 40521.08DL Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	
Heptachlor epoxide	1	11.00	10.91	11.05	2.0		
	2	10.93	10.84	10.98	10	400	
Dieldrin	1	12.12	12.04	12.18	16		
	2	12.06	12.02	12.16	40	150	
4,4'-DDE	1	11.58	11.53	11.67	6.4		
	2	11.87	11.77	11.91	32	400	
4,4'-DDD	1	12.60	12.58	12.72	82		
	2	12.84	12.78	12.92	10	720	
Endosulfan sulfate	1	14.48	14.34	14.48	12		
	2	14.05	13.99	14.13	7.0	71.4	
4,4'-DDT	1	13.09	13.07	13.21	62		
	2	13.38	13.31	13.45	49	26.5	J(H)
Endrin ketone	1	14.87	14.83	14.97	10		
	2	15.02	14.91	15.05	9.1	9.9	
gamma-Chlordane	1	11.15	11.13	11.27	1.6		
	2	11.27	11.18	11.32	13	713	

page 1 of 1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF87

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Lab Sample ID: 40521.09 Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	
Endosulfan I	1	11.68	11.61	11.75	0.87		
	2	11.67	11.53	11.67	22	999.9	Report CRQL
4,4'-DDT	1	13.09	13.07	13.21	4.5		UKK 10/16/99
	2	13.38	13.31	13.45	2.3	95.7	~~Report CRQL~~ J(+)
	1						
	2						
	1						
	2						
	1						
	2						
	1						
	2						
	1						
	2						
	1						
	2						

page 1 of 1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF88

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Lab Sample ID: 40521.10 Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	
Heptachlor	1	9.27	9.22	9.32	0.41		
	2	9.24	9.20	9.30	0.29	41.4	JCH
Dieldrin	1	12.11	12.04	12.18	1.3		
	2	12.07	12.02	12.16	3.4	162	Report CRQL
4,4'-DDE	1	11.58	11.53	11.67	0.79		
	2	11.87	11.77	11.91	1.7	115	Report CRQL
4,4'-DDT	1	13.09	13.07	13.21	6.7		
	2	13.39	13.31	13.45	6.8	1.5	
	1						
	2						
	1						
	2						
	1						
	2						
	1						
	2						

page 1 of 1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF89

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Lab Sample ID: 40521.11 Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	
Heptachlor	1	9.27	9.22	9.32	0.62		J(+)
	2	9.25	9.20	9.30	0.90	45.2	~~Report~~ LLK 12/16/99
Endosulfan I	1	11.66	11.61	11.75	0.55		
	2	11.67	11.53	11.67	10	999.9	Report CRQL
Dieldrin	1	12.11	12.04	12.18	1.5		
	2	12.07	12.02	12.16	4.1	173	Report CRQL
4,4'-DDE	1	11.58	11.53	11.67	0.80		
	2	11.87	11.77	11.91	1.7	113	Report CRQL
4,4'-DDT	1	13.09	13.07	13.21	8.6		
	2	13.38	13.31	13.45	4.4	95.5	J(+)
Methoxychlor	1	14.01	13.91	14.05	0.73		
	2	14.53	14.51	14.65	5.5	653	Report CRQL
	1						
	2						
	1						
	2						

page 1 of 1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APF90

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Lab Sample ID: 40521.12 Date(s) Analyzed: 10/14/99 10/14/99

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	
Heptachlor	1	9.26	9.22	9.32	0.69		
	2	9.24	9.20	9.30	1.1	59.4	J(A)
Dieldrin	1	12.11	12.04	12.18	1.4		
	2	12.07	12.02	12.16	3.1	121	Report CRQL
4,4'-DDE	1	11.58	11.53	11.67	0.71		
	2	11.86	11.77	11.91	1.5	111	Report CRQL
4,4'-DDT	1	13.09	13.07	13.21	8.4		
	2	13.38	13.31	13.45	4.7	78.7	J(+)
	1						
	2						
	1						
	2						
	1						
	2						
	1						
	2						

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

APG52

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Lab Sample ID: 40530.02 Date(s) Analyzed: 10/08/99 10/08/99

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	
alpha-BHC	1	7.85	7.79	7.89	0.32		
	2	7.68	7.64	7.74	0.26	23.1	
delta-BHC	1	9.25	9.20	9.30	0.020		
	2	9.45	9.38	9.48	0.074	270	Report CRQL
Heptachlor	1	9.69	9.69	9.79	0.059		
	2	9.58	9.49	9.59	0.075	27.1	J(+)
Heptachlor epoxide	1	11.81	11.74	11.88	0.033		
	2	11.57	11.49	11.63	0.27	718	Report CRQL
Endosulfan I	1	12.62	12.61	12.75	0.037		
	2	12.45	12.33	12.47	0.013	185	Report CRQL
Dieldrin	1	13.17	13.12	13.26	0.055		
	2	12.95	12.92	13.06	0.28	409	Report CRQL
4,4'-DDE	1	12.53	12.49	12.63	0.16		
	2	12.71	12.61	12.75	0.16	0.0	
4,4'-DDT	1	14.26	14.25	14.39	0.15		
	2	14.42	14.35	14.49	0.19	26.7	J(+)

page 1 of 1

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

APG52

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Lab Sample ID: 40530.02 Date(s) Analyzed: 10/08/99 10/08/99

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D	
Aroclor-1254 COLUMN 1	1	11.36	11.29	11.43	4.1			
	2	12.01	11.95	12.09	2.8			
	3	12.79	12.72	12.86	2.9			
	4	13.36	13.30	13.44	1.9			
	5	14.26	14.20	14.34	1.3	2.6		
COLUMN 2	1	11.57	11.50	11.64	4.7			
	2	12.17	12.10	12.24	5.3			
	3	12.95	12.89	13.03	3.3			
	4	13.40	13.34	13.48	2.1			
	5	14.42	14.35	14.49	1.4	3.4	30.8	J(+)
COLUMN 1	1							
	2							
	3							
	4							
	5							
COLUMN 2	1							
	2							
	3							
	4							
	5							
COLUMN 1	1							
	2							
	3							
	4							
	5							
COLUMN 2	1							
	2							
	3							
	4							
	5							

At least 3 peaks for each column are required for identification of multicomponent analytes

Attachment I

Chains-of-Custody

EPA United States Environmental Protection Agency Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

Case No. 27436

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

2. Region No.: I
Sampling Co.: Metcalf + Eddy
4. Date Shipped: 9/28/99
Carrier: FED EX
Sampler (Name): Derek Strange
Airbill Number: 8138083975 54 + 8127799350537
Sampler Signature: [signature]
5. Ship To: Southwest Labs of Oklahoma, Inc. 1700 West Albany, Suite C Broken Arrow OK 74012 (918) 251 0545
ATTN: Harry Berg

3. Purpose*
Lead: SF, PRP, ST, FED
Early Action: CLEM, PA, REM, RI, SI, ESI
Long-Term Action: FS, RD, RA, O&M, NPLD

6. Date Received – Received by: [signature] 10-1-99
Laboratory Contract Number
Unit Price
7. Transfer to:
Date Received
Received by
Contract Number
Price

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E RAS Analysis VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases Solids	Water-Miscible Liq.	Water-Immis. Liq.
APF79	5	LM	G	5		X	X		133902 ; 133903	SS0201STF	9/28/99 1015	MALP86	DS			
APF80	5	LM	G	5		X	X		133904 ; 133905	SS0301STF	9/28/99 1500	MALP87	DS			
APF81	5	LM	G	5		X	X		133907 ; 133908	SS0401STF	9/28/99 1400	MALP10	DS			
APF82	5	LM	G	5		X	X		133910 ; 133911	SS0402STF	9/28/99 1400	MALP11	DS			
APF83	5	LM	G	5		X	X		133913 ; 133914	SS0501STF	9/28/99 1330	MALP92	DS			
APF84	5	LM	G	5		X	X		133916 ; 133917	SS0502STF	9/28/99 1340	MALP93	DS			
APF85	5	LM	G	5		X	X		133919 ; 133920	SS0601STF	9/28/99 1253	MALP94	DS			
APF86	5	LM	G	5		X	X		133922 ; 133923	SS0701STF	9/28/99 1220	MALP95	DS			
APF87	5	LM	G	5		X	X		133925 ; 133926	SS0801STF	9/28/99 1200	MALP96	DS			
APF88	5	LM	G	5		X	X		133928 ; 133929	SS0901STF	9/28/99 1130	MALP97	DS			

Shipment for Case Complete? (Y/N): Y
Page 1 of 2
Sample(s) to be Used for Laboratory QC: Use APF10 for MS/MSD
Additional Sampler Signatures: [signature]
Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	9/29/99 1700				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	
		[signature]	10-1-99 9:00	8.1°C	

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to CLASS

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

APF79

A21-012-16 REV.

364580

21

United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

Case No. 27820

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

2. Region No.: I
Sampling Co.: Metca Friedle
4. Date Shipped: 9/30/99
Carrier: Fed Ex
6. Date Received -- Received by: 10-1-99
Sampler (Name): Derek Stme
Airbill Number: 812799250037, 813808397554
Laboratory Contract Number
Unit Price
Sampler Signature: DStme
5. Ship To: 1718 051-0545 Southwest Labs of Oklahoma, Inc, 1700 West Albany Suite C, Broken Arrow OK 74012
ATTN: Harry Borg
7. Transfer to:
Date Received
Received by
Contract Number
Price

3. Purpose
Lead: SF, PRP, ST, FED
Early Action: CLEM, PA, REM, RI, SI, ESI
Long-Term Action: FS, RD, RA, O&M, NPLD

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E RAS Analysis VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases Solids	Water-Miscible Liq.	Water-Immis. Liq.
APF89	5	L/M	G	5		X	X		133932, 133933	SSK0901STF	9/28/99 1135	[illegible]	DS	FD		
APF90	5	L/M	G	5		X	X		133934 – 133937	SS1001STF	9/28/99 1110	[illegible]	[illegible]			
									Cooler Temperature 5 Coolers							

Shipment for Case Complete? (Y/N): Y
Page 2 of 2
Sample(s) to be Used for Laboratory QC: Use APF90 for MS/MSD
Additional Sampler Signatures
Chain of Custody Seal Number(s)

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	9/30/99 1900				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	
		[signature]	10-1-99 9:08		

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to CLASS

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-16 REV.

APF79

364581

EPA United States Environmental Protection Agency Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

Case No. 27436

1. Project Code: 020655
Account Code: —
2. Region No.: I
Sampling Co.: M+E
4. Date Shipped: 10/1/99
Carrier: Fed EX

Regional Information: —
Sampler (Name): DSTMale
Airbill Number: 813808396731 + 813808397598

Non-Superfund Program: Brownfields
Sampler Signature: DSTMale
5. Ship To: Southwest Labs of Oklahoma, Inc, 1200 West Albany Suite C, Broken Arrow, OK 74012
ATTN: Harry Borg

Site Name: Brownfields Std times
3. Purpose*
Lead: SF, PRP, ST, FED
Early Action: CLEM, PA, REM, RI, SI, ESI
Long-Term Action: FS, RD, RA, O&M, NPLD

City, State: New Bedford MA
Site Spill ID: —

6. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify in Column A)

7. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank S = Spike D = Duplicate R = Rinsate PE = Perform. Eval. — = Not a QC Sample)
APG51	2	Lm	G	5			X		133944-945	FGW0201STF	9/30/99 1200	MALQ07	DS	
APG52	2	Lm	G	5			X		133948-49, 133952-53	FGW0401STF	9/30/99 1230	MALQ02	DS	MS ~~MSD~~ DS 9/30/99
APG53	2	Lm	G	5			X		133958 133959	FGW0801STF	9/30/99 1500	MALQ04	DS	
APG54	2	Lm	G	5			X		133962 133963	FGWK0801STF	9/30/99 1530	MALQ06	DS	Dupe of APG53
									Temperature	Blank				

Shipment for Case Complete? (Y/N): Y
Page 1 of 1
Sample(s) to be Used for Laboratory QC: Use APG52 for MS/MSD
Additional Sampler Signatures:
Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	10/1/99 1730				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to CLASS

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-15 REV.

384583

Attachment II

Sample Result Summary Sheets

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF79

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.01

Sample wt/vol: 30.2 (g/mL) G Lab File ID: F9100514.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 9 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4

UCK 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	910	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	910	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	29	J
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	910	U
83-32-9	Acenaphthene	28	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF79

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.01

Sample wt/vol: 30.2 (g/mL) G Lab File ID: F9100514.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 9 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4

LLK 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
51-28-5	2,4-Dinitrophenol	910	U	
100-02-7	4-Nitrophenol	910	U	
132-64-9	Dibenzofuran	19	J	
121-14-2	2,4-Dinitrotoluene	360	U	
84-66-2	Diethylphthalate	360	U	
7005-72-3	4-Chlorophenyl-phenylether	360	U	
86-73-7	Fluorene	27	J	
100-01-6	4-Nitroaniline	910	U	
534-52-1	4,6-Dinitro-2-methylphenol	910	U	
86-30-6	N-Nitrosodiphenylamine (1)	360	U	
101-55-3	4-Bromophenyl-phenylether	360	U	
118-74-1	Hexachlorobenzene	360	U	
87-86-5	Pentachlorophenol	910	U	
85-01-8	Phenanthrene	360		
120-12-7	Anthracene	83	J	
86-74-8	Carbazole	42	J	
84-74-2	Di-n-butylphthalate	360 ~~28~~	~~BJ~~	U
206-44-0	Fluoranthene	650		
129-00-0	Pyrene	530		
85-68-7	Butylbenzylphthalate	360	U	
91-94-1	3,3'-Dichlorobenzidine	360	U	
56-55-3	Benzo(a)anthracene	290	J	
218-01-9	Chrysene	320	J	
117-81-7	bis(2-Ethylhexyl)phthalate	360 ~~38~~	~~BJ~~	U
117-84-0	Di-n-octylphthalate	360	U	
205-99-2	Benzo(b)fluoranthene	250	J	
207-08-9	Benzo(k)fluoranthene	340	J	
50-32-8	Benzo(a)pyrene	310	J	
193-39-5	Indeno(1,2,3-cd)pyrene	190	J	
53-70-3	Dibenz(a,h)anthracene	65	J	
191-24-2	Benzo(g,h,i)perylene	190	J	

(1) Cannot be seperated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

APF79

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.01

Sample wt/vol: 30.2 (g/mL) G Lab File ID: F9100514.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 9 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4

Number TICs found: 22

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	814-78-8	3-BUTEN-2-ONE, 3-METHYL-	1.12	400	JN
2.		UNKNOWN	1.18	330	BJ
3.		UNKNOWN	1.22	78	BJ
4.		UNKNOWN	1.59	130	BJ
5.		UNKNOWN	1.65	92	BJ
6.	141-79-7	3-PENTEN-2-ONE, 4-METHYL-	1.97	2200	ABJN
7.		UNKNOWN	2.16	260	BJ
8.		UNKNOWN	2.35	130	J
9.		UNKNOWN ALDOL CONDENSATE	2.39	3900	AJ
10.		UNKNOWN	3.26	1200	BJ
11.		UNKNOWN	3.45	970	BJ
12.		UNKNOWN	3.56	110	J
13.		UNKNOWN	3.73	490	J
14.		UNKNOWN	4.10	79	J
15.		UNKNOWN	5.06	97	J
16.		UNKNOWN PAH	12.89	83	J
17.	57-10-3	HEXADECANOIC ACID	13.03	95	JN
18.	192-97-2	BENZO[E]PYRENE	18.39	230	JN
19.	14021-23-9	D-FRIEDOOLEAN-14-ENE, 3-METH	20.12	91	JN
20.		UNKNOWN	21.59	830	J
21.		1,2:3,4-DIBENZPYRENE	21.67	74	JN
22.	191-07-1	CORONENE	22.33	73	JN
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 10/05/99 DATA FILE: F9100514.D

SAMPLE ID: APF79 MATRIX: SOIL
LAB ID: 40521.01 DATE ANALYZED: 10/05/99

	CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1)	002216-33-3	OCTANE, 3-METHYL-	2.28	165
2)	001636-43-7	DECANE, 5,6-DIMETHYL-	2.48	249
3)	001072-05-5	HEPTANE, 2,6-DIMETHYL-	2.57	98
4)	000297-24-5	CYCLOOCTACOSANE	17.33	226
5)	000593-45-3	OCTADECANE	18.29	126
6)	000297-03-0	CYCLOTETRACOSANE	18.34	118
7)	000646-31-1	TETRACOSANE	19.21	196

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF80

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.02

Sample wt/vol: 30.8 (g/mL) G Lab File ID: F9100515.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 15 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	140	J
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	49	J
77-47-4	Hexachlorocyclopentadiene	380	U J
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	950	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	950	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	59	J
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	950	U
83-32-9	Acenaphthene	140	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF80

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.02

Sample wt/vol: 30.8 (g/mL) G Lab File ID: F9100515.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 15 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.7

UK 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	950	U J
100-02-7	4-Nitrophenol	950	U
132-64-9	Dibenzofuran	110	J
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	140	J
100-01-6	4-Nitroaniline	950	U
534-52-1	4,6-Dinitro-2-methylphenol	950	U
86-30-6	N-Nitrosodiphenylamine (1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	950	U
85-01-8	Phenanthrene	1100	
120-12-7	Anthracene	250	J
86-74-8	Carbazole	150	J
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	1400	
129-00-0	Pyrene	1100	
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	640	
218-01-9	Chrysene	700	
117-81-7	bis(2-Ethylhexyl)phthalate	380 ~~31~~	~~BJ~~ U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	580	
207-08-9	Benzo(k)fluoranthene	620	
50-32-8	Benzo(a)pyrene	650	
193-39-5	Indeno(1,2,3-cd)pyrene	370	J
53-70-3	Dibenz(a,h)anthracene	190	J
191-24-2	Benzo(g,h,i)perylene	400	

(1) Cannot be seperated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

APF80

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.02

Sample wt/vol: 30.8 (g/mL) G Lab File ID: F9100515.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 15 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.7

Number TICs found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	814-78-8	3-BUTEN-2-ONE, 3-METHYL-	1.12	430	JN
2.		UNKNOWN	1.18	460	BJ
3.		UNKNOWN	1.21	110	BJ
4.		UNKNOWN	1.59	170	BJ
5.		UNKNOWN	1.64	120	BJ
6.	141-79-7	3-PENTEN-2-ONE, 4-METHYL-	1.98	2800	ABJN
7.		UNKNOWN	2.16	300	BJ
8.	123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	2.38	4300	ABJN
9.		UNKNOWN	3.46	1100	BJ
10.		UNKNOWN	3.57	120	J
11.		UNKNOWN	3.74	560	J
12.		UNKNOWN	3.90	640	J
13.		UNKNOWN	5.07	120	J
14.	103-82-2	BENZENEACETIC ACID	6.91	120	JN
15.	613-12-7	ANTHRACENE, 2-METHYL-	12.76	120	JN
16.	2531-84-2	PHENANTHRENE, 2-METHYL-	12.90	170	JN
17.	57-10-3	HEXADECANOIC ACID	13.02	160	JN
18.	612-94-2	NAPHTHALENE, 2-PHENYL-	13.25	110	JN
19.	3442-78-2	PYRENE, 2-METHYL-	14.86	130	JN
20.	3351-31-3	CHRYSENE, 3-METHYL-	17.00	130	JN
21.		9-HEXACOSENE	17.34	190	JN
22.	1090-13-7	5,12-NAPHTHACENEDIONE	17.52	140	JN
23.	205-82-3	BENZO[J]FLUORANTHENE	18.15	140	JN
24.	192-97-2	BENZO[E]PYRENE	18.39	390	JN
25.		1,12-BENZPERYLENE	19.83	140	JN
26.	14021-23-9	D-FRIEDOOLEAN-14-ENE, 3-METH	20.11	490	JN
27.		UNKNOWN PAH	20.43	240	J
28.	1058-61-3	STIGMAST-4-EN-3-ONE	21.07	100	JN
29.		UNKNOWN	21.59	310	J
30.		1,2:4,5-DIBENZPYRENE	21.67	130	JN

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 10/05/99 DATA FILE: F9100515.D

SAMPLE ID: APF80 MATRIX: SOIL
LAB ID: 40521.02 DATE ANALYZED: 10/05/99

	CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1)	000926-82-9	HEPTANE, 3,5-DIMETHYL-	2.28	209
2)	056820-01-0	TRANS-2,3-EPOXYNONANE	2.34	104
3)	003074-71-3	HEPTANE, 2,3-DIMETHYL-	2.49	291
4)	002213-23-2	HEPTANE, 2,4-DIMETHYL-	2.56	108
5)	000112-58-3	HEXANE, 1,1'-OXYBIS-	3.25	1579
6)	000107-83-5	PENTANE, 2-METHYL-	4.45	1762
7)	000638-67-5	TRICOSANE	17.81	98
8)	000629-92-5	NONADECANE	18.30	189
9)	000297-03-0	CYCLOTETRACOSANE	18.34	139
10)	000112-95-8	EICOSANE	19.20	166

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF81

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.03

Sample wt/vol: 31.3 (g/mL) G Lab File ID: F9101228.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 9 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/13/99

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1700	U
111-44-4	bis(2-Chloroethyl)ether	1700	U
95-57-8	2-Chlorophenol	1700	U
541-73-1	1,3-Dichlorobenzene	1700	U
106-46-7	1,4-Dichlorobenzene	1700	U
95-50-1	1,2-Dichlorobenzene	1700	U
95-48-7	2-Methylphenol	1700	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1700	U J
106-44-5	4-Methylphenol	1700	U
621-64-7	N-Nitroso-di-n-propylamine	1700	U
67-72-1	Hexachloroethane	1700	U
98-95-3	Nitrobenzene	1700	U
78-59-1	Isophorone	1700	U
88-75-5	2-Nitrophenol	1700	U
105-67-9	2,4-Dimethylphenol	1700	U
111-91-1	bis(2-Chloroethoxy)methane	1700	U
120-83-2	2,4-Dichlorophenol	1700	U
120-82-1	1,2,4-Trichlorobenzene	1700	U
91-20-3	Naphthalene	450	J
106-47-8	4-Chloroaniline	1700	U
87-68-3	Hexachlorobutadiene	1700	U
59-50-7	4-Chloro-3-methylphenol	1700	U
91-57-6	2-Methylnaphthalene	440	J
77-47-4	Hexachlorocyclopentadiene	1700	U
88-06-2	2,4,6-Trichlorophenol	1700	U
95-95-4	2,4,5-Trichlorophenol	4400	U
91-58-7	2-Chloronaphthalene	1700	U
88-74-4	2-Nitroaniline	4400	U
131-11-3	Dimethylphthalate	1700	U
208-96-8	Acenaphthylene	1200	J
606-20-2	2,6-Dinitrotoluene	1700	U
99-09-2	3-Nitroaniline	4400	U
83-32-9	Acenaphthene	470	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF81

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.03

Sample wt/vol: 31.3 (g/mL) G Lab File ID: F9101228.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 9 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/13/99

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.3

LLK 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	4400	U J
100-02-7	4-Nitrophenol	4400	U
132-64-9	Dibenzofuran	370	J
121-14-2	2,4-Dinitrotoluene	1700	U
84-66-2	Diethylphthalate	1700	U
7005-72-3	4-Chlorophenyl-phenylether	1700	U
86-73-7	Fluorene	1600	J
100-01-6	4-Nitroaniline	4400	U
534-52-1	4,6-Dinitro-2-methylphenol	4400	U
86-30-6	N-Nitrosodiphenylamine (1)	1700	U
101-55-3	4-Bromophenyl-phenylether	1700	U
118-74-1	Hexachlorobenzene	1700	U
87-86-5	Pentachlorophenol	4400	U
85-01-8	Phenanthrene	11000	
120-12-7	Anthracene	3300	
86-74-8	Carbazole	770	J
84-74-2	Di-n-butylphthalate	1700 ~~360~~	~~J~~ U
206-44-0	Fluoranthene	14000	
129-00-0	Pyrene	20000 ~~18000~~	~~E~~
85-68-7	Butylbenzylphthalate	1700	U
91-94-1	3,3'-Dichlorobenzidine	1700	U
56-55-3	Benzo(a)anthracene	8900	
218-01-9	Chrysene	8400	
117-81-7	bis(2-Ethylhexyl)phthalate	1700	U J
117-84-0	Di-n-octylphthalate	1700	U
205-99-2	Benzo(b)fluoranthene	7700	
207-08-9	Benzo(k)fluoranthene	5000	
50-32-8	Benzo(a)pyrene	7800	
193-39-5	Indeno(1,2,3-cd)pyrene	4200	
53-70-3	Dibenz(a,h)anthracene	2100	
191-24-2	Benzo(g,h,i)perylene	4700	

(1) Cannot be seperated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

APF81

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.03

Sample wt/vol: 31.3 (g/mL) G Lab File ID: F9101228.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 9 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/13/99

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.3

Number TICs found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	2.25	7600	ABJN
2. 613-12-7	ANTHRACENE, 2-METHYL-	12.51	2300	JN
3. 613-12-7	ANTHRACENE, 2-METHYL-	12.56	2300	JN
4. 203-64-5	4H-CYCLOPENTA[DEF]PHENANTHRE	12.69	3700	JN
5. 610-48-0	ANTHRACENE, 1-METHYL-	12.74	1200	JN
6. 612-94-2	NAPHTHALENE, 2-PHENYL-	13.04	1900	JN
7. 84-65-1	9,10-ANTHRACENEDIONE	13.08	1100	JN
8. 3674-66-6	PHENANTHRENE, 2,5-DIMETHYL-	13.48	1300	JN
9. 3674-66-6	PHENANTHRENE, 2,5-DIMETHYL-	13.53	1100	JN
10. 6628-98-4	PYRENE, 4,5-DIHYDRO-	13.62	1200	JN
11.	UNKNOWN PAH	13.84	2500	J
12. 238-84-6	11H-BENZO[A]FLUORENE	14.65	1200	JN
13. 1090-13-7	5,12-NAPHTHACENEDIONE	17.32	1200	JN
14.	UNKNOWN PAH	17.94	2300	J
15.	UNKNOWN PAH	18.09	1400	J
16. 198-55-0	PERYLENE	18.18	4500	JN
17.	UNKNOWN PAH	18.58	1200	J
18.	UNKNOWN PAH	18.84	2600	J
19. 7616-22-0	.GAMMA.-TOCOPHEROL	18.94	2200	JN
20. 59-02-9	VITAMIN E	19.30	1100	JN
21. 191-26-4	DIBENZO[DEF,MNO]CHRYSENE	19.50	1500	JN
22.	UNKNOWN PAH	19.62	1300	J
23. 215-58-7	BENZO[B]TRIPHENYLENE	19.88	1300	JN
24.	1,2:7,8-DIBENZPHENANTHRENE	19.93	1400	JN
25. 191-26-4	DIBENZO[DEF,MNO]CHRYSENE	20.19	1700	JN
26.	UNKNOWN	20.35	1000	J
27.	1,2:3,4-DIBENZPYRENE	21.39	2200	JN
28. 192-65-4	NAPHTHO[1,2,3,4-DEF]CHRYSENE	21.49	1400	JN
29. 192-65-4	NAPHTHO[1,2,3,4-DEF]CHRYSENE	21.55	1300	JN
30. 192-65-4	NAPHTHO[1,2,3,4-DEF]CHRYSENE	22.02	2900	JN

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE:	10/13/99	DATA FILE:	F9101228.D
SAMPLE ID:	APF81	MATRIX:	SOIL
LAB ID:	40521.03	DATE ANALYZED:	10/13/99

	CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1)	001069-53-0	HEXANE, 2,3,5-TRIMETHYL-	3.75	1106

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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF81DL

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.03DL

Sample wt/vol: 31.3 (g/mL) G Lab File ID: F9101324.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 9 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/13/99

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.3

Use APF81 except for pyrene UK 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3500	U
111-44-4	bis(2-Chloroethyl)ether	3500	U
95-57-8	2-Chlorophenol	3500	U
541-73-1	1,3-Dichlorobenzene	3500	U
106-46-7	1,4-Dichlorobenzene	3500	U
95-50-1	1,2-Dichlorobenzene	3500	U
95-48-7	2-Methylphenol	3500	U
108-60-1	2,2'-oxybis(1-Chloropropane)	3500	U
106-44-5	4-Methylphenol	3500	U
621-64-7	N-Nitroso-di-n-propylamine	3500	U
67-72-1	Hexachloroethane	3500	U
98-95-3	Nitrobenzene	3500	U
78-59-1	Isophorone	3500	U
88-75-5	2-Nitrophenol	3500	U
105-67-9	2,4-Dimethylphenol	3500	U
111-91-1	bis(2-Chloroethoxy)methane	3500	U
120-83-2	2,4-Dichlorophenol	3500	U
120-82-1	1,2,4-Trichlorobenzene	3500	U
91-20-3	Naphthalene	420	DJ
106-47-8	4-Chloroaniline	3500	U
87-68-3	Hexachlorobutadiene	3500	U
59-50-7	4-Chloro-3-methylphenol	3500	U
91-57-6	2-Methylnaphthalene	440	DJ
77-47-4	Hexachlorocyclopentadiene	3500	U
88-06-2	2,4,6-Trichlorophenol	3500	U
95-95-4	2,4,5-Trichlorophenol	8700	U
91-58-7	2-Chloronaphthalene	3500	U
88-74-4	2-Nitroaniline	8700	U
131-11-3	Dimethylphthalate	3500	U
208-96-8	Acenaphthylene	1200	DJ
606-20-2	2,6-Dinitrotoluene	3500	U
99-09-2	3-Nitroaniline	8700	U
83-32-9	Acenaphthene	530	DJ

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF81DL

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.03DL

Sample wt/vol: 31.3 (g/mL) G Lab File ID: F9101324.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 9 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/13/99

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.3

CLL 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	8700	U
100-02-7	4-Nitrophenol	8700	U
132-64-9	Dibenzofuran	410	DJ
121-14-2	2,4-Dinitrotoluene	3500	U
84-66-2	Diethylphthalate	3500	U
7005-72-3	4-Chlorophenyl-phenylether	3500	U
86-73-7	Fluorene	1500	DJ
100-01-6	4-Nitroaniline	8700	U
534-52-1	4,6-Dinitro-2-methylphenol	8700	U
86-30-6	N-Nitrosodiphenylamine (1)	3500	U
101-55-3	4-Bromophenyl-phenylether	3500	U
118-74-1	Hexachlorobenzene	3500	U
87-86-5	Pentachlorophenol	8700	U
85-01-8	Phenanthrene	13000	D
120-12-7	Anthracene	3400	DJ
86-74-8	Carbazole	760	DJ
84-74-2	Di-n-butylphthalate	370	DJ
206-44-0	Fluoranthene	19000	D
129-00-0	Pyrene	20000	D
85-68-7	Butylbenzylphthalate	3500	U
91-94-1	3,3'-Dichlorobenzidine	3500	U
56-55-3	Benzo(a)anthracene	9300	D
218-01-9	Chrysene	9100	D
117-81-7	bis(2-Ethylhexyl)phthalate	3500	U
117-84-0	Di-n-octylphthalate	3500	U
205-99-2	Benzo(b)fluoranthene	7300	D
207-08-9	Benzo(k)fluoranthene	6800	D
50-32-8	Benzo(a)pyrene	8100	D
193-39-5	Indeno(1,2,3-cd)pyrene	4300	D
53-70-3	Dibenz(a,h)anthracene	1900	DJ
191-24-2	Benzo(g,h,i)perylene	4600	D

(1) Cannot be seperated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

APF81DL

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.03DL

Sample wt/vol: 31.3 (g/mL) G Lab File ID: F9101324.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 9 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/13/99

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.3

Number TICs found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	2.18	7000	ADJN
2. 132-65-0	DIBENZOTHIOPHENE	11.33	1100	DJN
3. 613-12-7	ANTHRACENE, 2-METHYL-	12.39	2400	DJN
4. 613-12-7	ANTHRACENE, 2-METHYL-	12.44	2400	DJN
5. 2531-84-2	PHENANTHRENE, 2-METHYL-	12.57	3400	DJN
6. 613-12-7	ANTHRACENE, 2-METHYL-	12.62	1600	DJN
7. 612-94-2	NAPHTHALENE, 2-PHENYL-	12.92	2000	DJN
8. 3674-66-6	PHENANTHRENE, 2,5-DIMETHYL-	13.36	1300	DJN
9.	UNKNOWN PAH	13.40	1300	DJ
10. 5737-13-3	CYCLOPENTA(DEF)PHENANTHRENON	13.47	1400	DJN
11.	UNKNOWN PAH	13.72	2200	DJ
12. 3442-78-2	PYRENE, 2-METHYL-	14.53	2400	DJN
13. 82-05-3	7H-BENZ[DE]ANTHRACEN-7-ONE	15.39	1400	DJN
14.	UNKNOWN PAH	15.61	1900	DJ
15. 2381-31-9	BENZ[A]ANTHRACENE, 8-METHYL-	16.65	1400	DJN
16. 1090-13-7	5,12-NAPHTHACENEDIONE	17.18	1400	DJN
17. 207-08-9	BENZO[]FLUORANTHENE	17.80	2600	DJN
18.	UNKNOWN	17.97	1200	DJ
19. 192-97-2	BENZO[E]PYRENE	18.04	5500	DJN
20.	UNKNOWN PAH	18.29	1100	DJ
21.	UNKNOWN PAH	18.45	1200	DJ
22.	UNKNOWN PAH	19.36	1900	DJ
23. 191-26-4	DIBENZO[DEF,MNO]CHRYSENE	19.48	2100	DJN
24. 215-58-7	BENZO[B]TRIPHENYLENE	19.75	1300	DJN
25.	UNKNOWN PAH	19.78	1600	DJ
26. 191-26-4	DIBENZO[DEF,MNO]CHRYSENE	20.05	1500	DJN
27. 192-65-4	NAPHTHO[1,2,3,4-DEF]CHRYSENE	21.20	2600	DJN
28.	1,2:4,5-DIBENZPYRENE	21.29	1600	DJN
29.	[3,4:9,10]DIBENZPYRENE	21.36	1400	DJN
30. 192-65-4	NAPHTHO[1,2,3,4-DEF]CHRYSENE	21.81	3400	DJN

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF82

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.04

Sample wt/vol: 32.3 (g/mL) G Lab File ID: F9100517.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 16 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3600	U
111-44-4	bis(2-Chloroethyl)ether	3600	U
95-57-8	2-Chlorophenol	3600	U
541-73-1	1,3-Dichlorobenzene	3600	U
106-46-7	1,4-Dichlorobenzene	3600	U
95-50-1	1,2-Dichlorobenzene	3600	U
95-48-7	2-Methylphenol	3600	U
108-60-1	2,2'-oxybis(1-Chloropropane)	3600	U
106-44-5	4-Methylphenol	3600	U
621-64-7	N-Nitroso-di-n-propylamine	3600	U
67-72-1	Hexachloroethane	3600	U
98-95-3	Nitrobenzene	3600	U
78-59-1	Isophorone	3600	U
88-75-5	2-Nitrophenol	3600	U
105-67-9	2,4-Dimethylphenol	3600	U
111-91-1	bis(2-Chloroethoxy)methane	3600	U
120-83-2	2,4-Dichlorophenol	3600	U
120-82-1	1,2,4-Trichlorobenzene	3600	U
91-20-3	Naphthalene	510	J
106-47-8	4-Chloroaniline	3600	U
87-68-3	Hexachlorobutadiene	3600	U
59-50-7	4-Chloro-3-methylphenol	3600	U
91-57-6	2-Methylnaphthalene	250	J
77-47-4	Hexachlorocyclopentadiene	3600	U
88-06-2	2,4,6-Trichlorophenol	3600	U
95-95-4	2,4,5-Trichlorophenol	9200	U
91-58-7	2-Chloronaphthalene	3600	U
88-74-4	2-Nitroaniline	9200	U
131-11-3	Dimethylphthalate	3600	U
208-96-8	Acenaphthylene	700	J
606-20-2	2,6-Dinitrotoluene	3600	U
99-09-2	3-Nitroaniline	9200	U
83-32-9	Acenaphthene	1200	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF82

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.04

Sample wt/vol: 32.3 (g/mL) G Lab File ID: F9100517.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 16 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.4

LKK 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	9200	U J
100-02-7	4-Nitrophenol	9200	U
132-64-9	Dibenzofuran	710	J
121-14-2	2,4-Dinitrotoluene	3600	U
84-66-2	Diethylphthalate	3600	U
7005-72-3	4-Chlorophenyl-phenylether	3600	U
86-73-7	Fluorene	1400	J
100-01-6	4-Nitroaniline	9200	U
534-52-1	4,6-Dinitro-2-methylphenol	9200	U
86-30-6	N-Nitrosodiphenylamine (1)	3600	U
101-55-3	4-Bromophenyl-phenylether	3600	U
118-74-1	Hexachlorobenzene	3600	U
87-86-5	Pentachlorophenol	9200	U
85-01-8	Phenanthrene	14000	
120-12-7	Anthracene	4200	
86-74-8	Carbazole	2000	J
84-74-2	Di-n-butylphthalate	3600	U
206-44-0	Fluoranthene	21000	
129-00-0	Pyrene	19000	
85-68-7	Butylbenzylphthalate	3600	U
91-94-1	3,3'-Dichlorobenzidine	3600	U
56-55-3	Benzo(a)anthracene	10000	
218-01-9	Chrysene	9900	
117-81-7	bis(2-Ethylhexyl)phthalate	3600	U
117-84-0	Di-n-octylphthalate	3600	U
205-99-2	Benzo(b)fluoranthene	9100	
207-08-9	Benzo(k)fluoranthene	11000	
50-32-8	Benzo(a)pyrene	11000	
193-39-5	Indeno(1,2,3-cd)pyrene	7400	
53-70-3	Dibenz(a,h)anthracene	2500	J
191-24-2	Benzo(g,h,i)perylene	8300	

(1) Cannot be seperated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

APF82

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.04

Sample wt/vol: 32.3 (g/mL) G Lab File ID: F9100517.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 16 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.4

Number TICs found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 814-78-8	3-BUTEN-2-ONE, 3-METHYL-	1.11	1100	JN
2. 141-79-7	3-PENTEN-2-ONE, 4-METHYL-	1.97	1600	ABJN
3. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	2.37	7500	ABJN
4.	UNKNOWN	3.26	2500	BJ
5.	UNKNOWN	3.46	1300	BJ
6.	UNKNOWN	4.44	2000	BJ
7. 132-65-0	DIBENZOTHIOPHENE	11.66	1000	JN
8. 883-20-5	PHENANTHRENE, 9-METHYL-	12.72	1900	JN
9. 610-48-0	ANTHRACENE, 1-METHYL-	12.76	1800	JN
10.	UNKNOWN PAH	12.90	3000	J
11. 613-12-7	ANTHRACENE, 2-METHYL-	12.94	1300	JN
12. 612-94-2	NAPHTHALENE, 2-PHENYL-	13.25	1600	JN
13. 5737-13-3	CYCLOPENTA(DEF)PHENANTHRENON	13.79	1200	JN
14.	UNKNOWN PAH	14.05	1800	J
15. 3442-78-2	PYRENE, 2-METHYL-	14.86	1600	JN
16.	UNKNOWN PAH	15.95	1000	J
17. 1090-13-7	5,12-NAPHTHACENEDIONE	17.52	1500	JN
18. 205-82-3	BENZO[J]FLUORANTHENE	18.15	2600	JN
19.	UNKNOWN PAH	18.31	1500	J
20. 192-97-2	BENZO[E]PYRENE	18.40	6000	JN
21.	UNKNOWN PAH	18.80	1400	J
22.	UNKNOWN	19.17	1200	J
23.	UNKNOWN PAH	19.83	2700	J
24.	1,2:7,8-DIBENZPHENANTHRENE	20.10	1600	JN
25.	1,2:7,8-DIBENZPHENANTHRENE	20.15	2000	JN
26.	1,12-BENZPERYLENE	20.42	1700	JN
27.	1,2:3,4-DIBENZPYRENE	21.67	3400	JN
28. 192-65-4	NAPHTHO[1,2,3,4-DEF]CHRYSENE	21.77	2400	JN
29. 192-65-4	NAPHTHO[1,2,3,4-DEF]CHRYSENE	21.84	1600	JN
30. 191-07-1	CORONENE	22.34	4600	JN

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF83

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.05

Sample wt/vol: 30.2 (g/mL) G Lab File ID: F9100518.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 13 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3800	U
111-44-4	bis(2-Chloroethyl)ether	3800	U
95-57-8	2-Chlorophenol	3800	U
541-73-1	1,3-Dichlorobenzene	3800	U
106-46-7	1,4-Dichlorobenzene	3800	U
95-50-1	1,2-Dichlorobenzene	3800	U
95-48-7	2-Methylphenol	3800	U
108-60-1	2,2'-oxybis(1-Chloropropane)	3800	U
106-44-5	4-Methylphenol	3800	U
621-64-7	N-Nitroso-di-n-propylamine	3800	U
67-72-1	Hexachloroethane	3800	U
98-95-3	Nitrobenzene	3800	U
78-59-1	Isophorone	3800	U
88-75-5	2-Nitrophenol	3800	U
105-67-9	2,4-Dimethylphenol	3800	U
111-91-1	bis(2-Chloroethoxy)methane	3800	U
120-83-2	2,4-Dichlorophenol	3800	U
120-82-1	1,2,4-Trichlorobenzene	3800	U
91-20-3	Naphthalene	1300	J
106-47-8	4-Chloroaniline	3800	U
87-68-3	Hexachlorobutadiene	3800	U
59-50-7	4-Chloro-3-methylphenol	3800	U
91-57-6	2-Methylnaphthalene	480	J
77-47-4	Hexachlorocyclopentadiene	3800	U J
88-06-2	2,4,6-Trichlorophenol	3800	U
95-95-4	2,4,5-Trichlorophenol	9500	U
91-58-7	2-Chloronaphthalene	3800	U
88-74-4	2-Nitroaniline	9500	U
131-11-3	Dimethylphthalate	3800	U
208-96-8	Acenaphthylene	1700	J
606-20-2	2,6-Dinitrotoluene	3800	U
99-09-2	3-Nitroaniline	9500	U
83-32-9	Acenaphthene	2100	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF83

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.05

Sample wt/vol: 30.2 (g/mL) G Lab File ID: F9100518.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 13 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.5

UK 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	9500	U J
100-02-7	4-Nitrophenol	9500	U
132-64-9	Dibenzofuran	1600	J
121-14-2	2,4-Dinitrotoluene	3800	U
84-66-2	Diethylphthalate	3800	U
7005-72-3	4-Chlorophenyl-phenylether	3800	U
86-73-7	Fluorene	2200	J
100-01-6	4-Nitroaniline	9500	U
534-52-1	4,6-Dinitro-2-methylphenol	9500	U
86-30-6	N-Nitrosodiphenylamine (1)	3800	U
101-55-3	4-Bromophenyl-phenylether	3800	U
118-74-1	Hexachlorobenzene	3800	U
87-86-5	Pentachlorophenol	9500	U
85-01-8	Phenanthrene	18000	
120-12-7	Anthracene	5600	
86-74-8	Carbazole	2400	J
84-74-2	Di-n-butylphthalate	3800	U
206-44-0	Fluoranthene	24000	
129-00-0	Pyrene	22000	
85-68-7	Butylbenzylphthalate	3800	U
91-94-1	3,3'-Dichlorobenzidine	3800	U
56-55-3	Benzo(a)anthracene	14000	
218-01-9	Chrysene	14000	
117-81-7	bis(2-Ethylhexyl)phthalate	3800	U
117-84-0	Di-n-octylphthalate	3800	U
205-99-2	Benzo(b)fluoranthene	12000	
207-08-9	Benzo(k)fluoranthene	11000	
50-32-8	Benzo(a)pyrene	14000	
193-39-5	Indeno(1,2,3-cd)pyrene	7900	
53-70-3	Dibenz(a,h)anthracene	3200	J
191-24-2	Benzo(g,h,i)perylene	9100	

(1) Cannot be seperated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

APF83

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.05

Sample wt/vol: 30.2 (g/mL) G Lab File ID: F9100518.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 13 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.5

Number TICs found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	814-78-8	3-BUTEN-2-ONE, 3-METHYL-	1.12	1600	JN
2.	141-79-7	3-PENTEN-2-ONE, 4-METHYL-	1.97	2600	ABJN
3.	123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	2.38	7100	ABJN
4.		UNKNOWN	4.44	2500	BJ
5.	132-65-0	DIBENZOTHIOPHENE	11.66	1500	JN
6.	613-12-7	ANTHRACENE, 2-METHYL-	12.71	2300	JN
7.	613-12-7	ANTHRACENE, 2-METHYL-	12.76	2500	JN
8.		UNKNOWN PAH	12.89	4500	J
9.	613-12-7	ANTHRACENE, 2-METHYL-	12.94	1500	JN
10.	612-94-2	NAPHTHALENE, 2-PHENYL-	13.24	2200	JN
11.	5737-13-3	CYCLOPENTA(DEF)PHENANTHRENON	13.79	1800	JN
12.		UNKNOWN PAH	14.05	1600	J
13.	3442-78-2	PYRENE, 2-METHYL-	14.85	2200	JN
14.		UNKNOWN PAH	15.95	1500	J
15.	1090-13-7	5,12-NAPHTHACENEDIONE	17.53	1400	JN
16.	205-82-3	BENZO[J]FLUORANTHENE	18.16	2900	JN
17.		UNKNOWN PAH	18.31	1800	J
18.	198-55-0	PERYLENE	18.40	7500	JN
19.		UNKNOWN PAH	18.79	1600	J
20.		UNKNOWN	19.16	1900	J
21.		UNKNOWN PAH	19.74	1900	J
22.	215-58-7	BENZO[B]TRIPHENYLENE	19.83	2400	JN
23.	215-58-7	BENZO[B]TRIPHENYLENE	20.10	1700	JN
24.	215-58-7	BENZO[B]TRIPHENYLENE	20.14	2300	JN
25.		1,12-BENZPERYLENE	20.41	1700	JN
26.		UNKNOWN PAH	21.03	1500	J
27.		1,2:3,4-DIBENZPYRENE	21.67	3200	JN
28.	192-65-4	NAPHTHO[1,2,3,4-DEF]CHRYSENE	21.78	2200	JN
29.	192-65-4	NAPHTHO[1,2,3,4-DEF]CHRYSENE	21.85	1600	JN
30.	191-07-1	CORONENE	22.34	3900	JN

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE:	10/05/99	DATA FILE:	F9100518.D
SAMPLE ID:	APF83	MATRIX:	SOIL
LAB ID:	40521.05	DATE ANALYZED:	10/05/99

	CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1)	018589-27-0	HEXANE, 2-IODO-	3.26	2431

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF84

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.06

Sample wt/vol: 30.7 (g/mL) G Lab File ID: F9100519.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 16 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
108-95-2	Phenol	3800	U	
111-44-4	bis(2-Chloroethyl)ether	3800	U	
95-57-8	2-Chlorophenol	3800	U	
541-73-1	1,3-Dichlorobenzene	3800	U	
106-46-7	1,4-Dichlorobenzene	3800	U	
95-50-1	1,2-Dichlorobenzene	3800	U	
95-48-7	2-Methylphenol	3800	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	3800	U	
106-44-5	4-Methylphenol	3800	U	
621-64-7	N-Nitroso-di-n-propylamine	3800	U	
67-72-1	Hexachloroethane	3800	U	
98-95-3	Nitrobenzene	3800	U	
78-59-1	Isophorone	3800	U	
88-75-5	2-Nitrophenol	3800	U	
105-67-9	2,4-Dimethylphenol	3800	U	
111-91-1	bis(2-Chloroethoxy)methane	3800	U	
120-83-2	2,4-Dichlorophenol	3800	U	
120-82-1	1,2,4-Trichlorobenzene	3800	U	
91-20-3	Naphthalene	430	J	
106-47-8	4-Chloroaniline	3800	U	
87-68-3	Hexachlorobutadiene	3800	U	
59-50-7	4-Chloro-3-methylphenol	3800	U	
91-57-6	2-Methylnaphthalene	3800	U	J
77-47-4	Hexachlorocyclopentadiene	3800	U	J
88-06-2	2,4,6-Trichlorophenol	3800	U	
95-95-4	2,4,5-Trichlorophenol	9600	U	
91-58-7	2-Chloronaphthalene	3800	U	
88-74-4	2-Nitroaniline	9600	U	
131-11-3	Dimethylphthalate	3800	U	
208-96-8	Acenaphthylene	1400	J	
606-20-2	2,6-Dinitrotoluene	3800	U	
99-09-2	3-Nitroaniline	9600	U	
83-32-9	Acenaphthene	640	J	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF84

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.06

Sample wt/vol: 30.7 (g/mL) G Lab File ID: F9100519.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 16 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.4

UAK 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	9600	U J
100-02-7	4-Nitrophenol	9600	U
132-64-9	Dibenzofuran	410	J
121-14-2	2,4-Dinitrotoluene	3800	U
84-66-2	Diethylphthalate	3800	U
7005-72-3	4-Chlorophenyl-phenylether	3800	U
86-73-7	Fluorene	820	J
100-01-6	4-Nitroaniline	9600	U
534-52-1	4,6-Dinitro-2-methylphenol	9600	U
86-30-6	N-Nitrosodiphenylamine (1)	3800	U
101-55-3	4-Bromophenyl-phenylether	3800	U
118-74-1	Hexachlorobenzene	3800	U
87-86-5	Pentachlorophenol	9600	U
85-01-8	Phenanthrene	7000	
120-12-7	Anthracene	2200	J
86-74-8	Carbazole	670	J
84-74-2	Di-n-butylphthalate	3800	U
206-44-0	Fluoranthene	12000	
129-00-0	Pyrene	12000	
85-68-7	Butylbenzylphthalate	3800	U
91-94-1	3,3'-Dichlorobenzidine	3800	U
56-55-3	Benzo(a)anthracene	6200	
218-01-9	Chrysene	6600	
117-81-7	bis(2-Ethylhexyl)phthalate	3800	U
117-84-0	Di-n-octylphthalate	3800	U
205-99-2	Benzo(b)fluoranthene	5300	
207-08-9	Benzo(k)fluoranthene	6100	
50-32-8	Benzo(a)pyrene	7100	
193-39-5	Indeno(1,2,3-cd)pyrene	4300	
53-70-3	Dibenz(a,h)anthracene	1500	J
191-24-2	Benzo(g,h,i)perylene	5300	

(1) Cannot be seperated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

APF84

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.06

Sample wt/vol: 30.7 (g/mL) G Lab File ID: F9100519.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 16 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.4

Number TICs found: 29

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 814-78-8	3-BUTEN-2-ONE, 3-METHYL-	1.12	1400	JN
2.	UNKNOWN	1.17	900	BJ
3. 141-79-7	3-PENTEN-2-ONE, 4-METHYL-	1.98	4300	ABJN
4. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	2.37	9800	ABJN
5.	UNKNOWN	3.26	3300	BJ
6.	UNKNOWN	4.43	3500	BJ
7. 2531-84-2	PHENANTHRENE, 2-METHYL-	12.71	1000	JN
8. 613-12-7	ANTHRACENE, 2-METHYL-	12.76	1000	JN
9.	UNKNOWN PAH	12.89	1900	J
10. 613-12-7	ANTHRACENE, 2-METHYL-	12.94	840	JN
11. 612-94-2	NAPHTHALENE, 2-PHENYL-	13.24	1400	JN
12.	UNKNOWN PAH	14.04	980	J
13. 243-17-4	11H-BENZO[B]FLUORENE	14.86	1600	JN
14. 82-05-3	7H-BENZ[DE]ANTHRACEN-7-ONE	15.72	950	JN
15.	UNKNOWN PAH	15.95	960	J
16. 2381-31-9	BENZ[A]ANTHRACENE, 8-METHYL-	16.99	1000	JN
17. 205-99-2	BENZ[E]ACEPHENANTHRYLENE	18.15	1200	JN
18.	UNKNOWN PAH	18.31	810	J
19. 192-97-2	BENZO[E]PYRENE	18.40	3800	JN
20.	UNKNOWN	19.16	940	J
21.	UNKNOWN PAH	19.83	1500	J
22.	UNKNOWN PAH	20.11	2900	J
23.	UNKNOWN	20.18	840	J
24.	UNKNOWN PAH	20.42	1200	J
25.	UNKNOWN	21.59	1100	J
26. 192-65-4	NAPHTHO[1,2,3,4-DEF]CHRYSENE	21.67	1600	JN
27. 192-51-8	DIBENZO[FG,OP]NAPHTHACENE	21.77	1100	JN
28. 192-65-4	NAPHTHO[1,2,3,4-DEF]CHRYSENE	21.84	800	JN
29. 191-07-1	CORONENE	22.33	2300	JN
30.				

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE:	10/05/99	DATA FILE:	F9100519.D
SAMPLE ID:	APF84	MATRIX:	SOIL
LAB ID:	40521.06	DATE ANALYZED:	10/05/99

	CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1)	001713-33-3	7-OXABICYCLO[4.1.0]HEPTANE, 1-METHY	3.45	1507

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF85

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.07

Sample wt/vol: 31.8 (g/mL) G Lab File ID: F9100520.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 9 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3400	U
111-44-4	bis(2-Chloroethyl)ether	3400	U
95-57-8	2-Chlorophenol	3400	U
541-73-1	1,3-Dichlorobenzene	3400	U
106-46-7	1,4-Dichlorobenzene	3400	U
95-50-1	1,2-Dichlorobenzene	3400	U
95-48-7	2-Methylphenol	3400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	3400	U
106-44-5	4-Methylphenol	3400	U
621-64-7	N-Nitroso-di-n-propylamine	3400	U
67-72-1	Hexachloroethane	3400	U
98-95-3	Nitrobenzene	3400	U
78-59-1	Isophorone	3400	U
88-75-5	2-Nitrophenol	3400	U
105-67-9	2,4-Dimethylphenol	3400	U
111-91-1	bis(2-Chloroethoxy)methane	3400	U
120-83-2	2,4-Dichlorophenol	3400	U
120-82-1	1,2,4-Trichlorobenzene	3400	U
91-20-3	Naphthalene	500	J
106-47-8	4-Chloroaniline	3400	U
87-68-3	Hexachlorobutadiene	3400	U
59-50-7	4-Chloro-3-methylphenol	3400	U
91-57-6	2-Methylnaphthalene	170	J
77-47-4	Hexachlorocyclopentadiene	3400	U
88-06-2	2,4,6-Trichlorophenol	3400	U
95-95-4	2,4,5-Trichlorophenol	8600	U
91-58-7	2-Chloronaphthalene	3400	U
88-74-4	2-Nitroaniline	8600	U
131-11-3	Dimethylphthalate	3400	U
208-96-8	Acenaphthylene	540	J
606-20-2	2,6-Dinitrotoluene	3400	U
99-09-2	3-Nitroaniline	8600	U
83-32-9	Acenaphthene	770	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF85

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.07

Sample wt/vol: 31.8 (g/mL) G Lab File ID: F9100520.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 9 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.5

LKK 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	8600	U J
100-02-7	4-Nitrophenol	8600	U
132-64-9	Dibenzofuran	570	J
121-14-2	2,4-Dinitrotoluene	3400	U
84-66-2	Diethylphthalate	3400	U
7005-72-3	4-Chlorophenyl-phenylether	3400	U
86-73-7	Fluorene	840	J
100-01-6	4-Nitroaniline	8600	U
534-52-1	4,6-Dinitro-2-methylphenol	8600	U
86-30-6	N-Nitrosodiphenylamine (1)	3400	U
101-55-3	4-Bromophenyl-phenylether	3400	U
118-74-1	Hexachlorobenzene	3400	U
87-86-5	Pentachlorophenol	8600	U
85-01-8	Phenanthrene	7600	
120-12-7	Anthracene	1800	J
86-74-8	Carbazole	880	J
84-74-2	Di-n-butylphthalate	3400	U
206-44-0	Fluoranthene	9400	
129-00-0	Pyrene	8600	
85-68-7	Butylbenzylphthalate	3400	U
91-94-1	3,3'-Dichlorobenzidine	3400	U
56-55-3	Benzo(a)anthracene	4200	
218-01-9	Chrysene	4400	
117-81-7	bis(2-Ethylhexyl)phthalate	3400	U
117-84-0	Di-n-octylphthalate	3400	U
205-99-2	Benzo(b)fluoranthene	3100	J
207-08-9	Benzo(k)fluoranthene	4400	
50-32-8	Benzo(a)pyrene	4300	
193-39-5	Indeno(1,2,3-cd)pyrene	2400	J
53-70-3	Dibenz(a,h)anthracene	950	J
191-24-2	Benzo(g,h,i)perylene	2600	J

(1) Cannot be seperated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

APF85

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.07

Sample wt/vol: 31.8 (g/mL) G Lab File ID: F9100520.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 9 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.5

Number TICs found: 19

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 814-78-8	3-BUTEN-2-ONE, 3-METHYL-	1.11	1400	JN
2.	UNKNOWN	1.18	790	BJ
3. 141-79-7	3-PENTEN-2-ONE, 4-METHYL-	1.97	3800	ABJN
4. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	2.37	6300	ABJN
5.	UNKNOWN	3.25	2300	BJ
6.	UNKNOWN	4.44	1700	BJ
7. 610-48-0	ANTHRACENE, 1-METHYL-	12.72	720	JN
8. 613-12-7	ANTHRACENE, 2-METHYL-	12.76	780	JN
9.	UNKNOWN PAH	12.90	1300	J
10. 612-94-2	NAPHTHALENE, 2-PHENYL-	13.25	750	JN
11. 5737-13-3	CYCLOPENTA(DEF)PHENANTHRENON	13.79	720	JN
12. 2381-21-7	PYRENE, 1-METHYL-	14.86	990	JN
13. 205-82-3	BENZO[J]FLUORANTHENE	18.16	790	JN
14. 192-97-2	BENZO[E]PYRENE	18.40	2300	JN
15.	UNKNOWN PAH	19.83	720	J
16. 215-58-7	BENZO[B]TRIPHENYLENE	20.15	960	JN
17. 123-28-4	PROPANOIC ACID, 3,3'-THIOBIS	21.60	1400	BJN
18. 192-65-4	NAPHTHO[1,2,3,4-DEF]CHRYSENE	21.67	1300	JN
19. 191-07-1	CORONENE	22.34	1300	JN
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 10/05/99 DATA FILE: F9100520.D

SAMPLE ID: APF85 MATRIX: SOIL
LAB ID: 40521.07 DATE ANALYZED: 10/05/99

	CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1)	000294-62-2	CYCLODODECANE	9.20	890

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF86

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F9100521.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 10 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3700	U
111-44-4	bis(2-Chloroethyl)ether	3700	U
95-57-8	2-Chlorophenol	3700	U
541-73-1	1,3-Dichlorobenzene	3700	U
106-46-7	1,4-Dichlorobenzene	3700	U
95-50-1	1,2-Dichlorobenzene	3700	U
95-48-7	2-Methylphenol	3700	U
108-60-1	2,2'-oxybis(1-Chloropropane)	3700	U
106-44-5	4-Methylphenol	3700	U
621-64-7	N-Nitroso-di-n-propylamine	3700	U
67-72-1	Hexachloroethane	3700	U
98-95-3	Nitrobenzene	3700	U
78-59-1	Isophorone	3700	U
88-75-5	2-Nitrophenol	3700	U
105-67-9	2,4-Dimethylphenol	3700	U
111-91-1	bis(2-Chloroethoxy)methane	3700	U
120-83-2	2,4-Dichlorophenol	3700	U
120-82-1	1,2,4-Trichlorobenzene	3700	U
91-20-3	Naphthalene	280	J
106-47-8	4-Chloroaniline	3700	U
87-68-3	Hexachlorobutadiene	3700	U
59-50-7	4-Chloro-3-methylphenol	3700	U
91-57-6	2-Methylnaphthalene	3700	U
77-47-4	Hexachlorocyclopentadiene	3700	U
88-06-2	2,4,6-Trichlorophenol	3700	U
95-95-4	2,4,5-Trichlorophenol	9200	U
91-58-7	2-Chloronaphthalene	3700	U
88-74-4	2-Nitroaniline	9200	U
131-11-3	Dimethylphthalate	3700	U
208-96-8	Acenaphthylene	560	J
606-20-2	2,6-Dinitrotoluene	3700	U
99-09-2	3-Nitroaniline	9200	U
83-32-9	Acenaphthene	580	J

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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF86

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F9100521.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 10 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.2

LKK 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	9200	U J
100-02-7	4-Nitrophenol	9200	U
132-64-9	Dibenzofuran	370	J
121-14-2	2,4-Dinitrotoluene	3700	U
84-66-2	Diethylphthalate	3700	U
7005-72-3	4-Chlorophenyl-phenylether	3700	U
86-73-7	Fluorene	540	J
100-01-6	4-Nitroaniline	9200	U
534-52-1	4,6-Dinitro-2-methylphenol	9200	U
86-30-6	N-Nitrosodiphenylamine (1)	3700	U
101-55-3	4-Bromophenyl-phenylether	3700	U
118-74-1	Hexachlorobenzene	3700	U
87-86-5	Pentachlorophenol	9200	U
85-01-8	Phenanthrene	5400	
120-12-7	Anthracene	1400	J
86-74-8	Carbazole	650	J
84-74-2	Di-n-butylphthalate	3700	U
206-44-0	Fluoranthene	8900	
129-00-0	Pyrene	8200	
85-68-7	Butylbenzylphthalate	3700	U
91-94-1	3,3'-Dichlorobenzidine	3700	U
56-55-3	Benzo(a)anthracene	4700	
218-01-9	Chrysene	4900	
117-81-7	bis(2-Ethylhexyl)phthalate	3700	U
117-84-0	Di-n-octylphthalate	3700	U
205-99-2	Benzo(b)fluoranthene	4600	
207-08-9	Benzo(k)fluoranthene	5200	
50-32-8	Benzo(a)pyrene	5500	
193-39-5	Indeno(1,2,3-cd)pyrene	3300	J
53-70-3	Dibenz(a,h)anthracene	1300	J
191-24-2	Benzo(g,h,i)perylene	3800	

(1) Cannot be seperated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

APF86

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F9100521.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 10 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.2

Number TICs found: 18

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 814-78-8	3-BUTEN-2-ONE, 3-METHYL-	1.12	1200	JN
2.	UNKNOWN	1.17	790	BJ
3. 141-79-7	3-PENTEN-2-ONE, 4-METHYL-	1.97	5700	ABJN
4. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	2.37	8700	ABJN
5.	UNKNOWN	3.45	1100	BJ
6.	UNKNOWN HYDROCARBON	4.44	2700	J
7.	UNKNOWN PAH	12.89	770	J
8. 238-84-6	11H-BENZO[A]FLUORENE	14.85	1000	JN
9. 205-99-2	BENZ[E]ACEPHENANTHRYLENE	18.15	1100	JN
10.	UNKNOWN PAH	18.31	830	J
11. 192-97-2	BENZO[E]PYRENE	18.38	2900	JN
12.	UNKNOWN PAH	18.79	780	J
13.	UNKNOWN PAH	19.83	980	J
14. 215-58-7	BENZO[B]TRIPHENYLENE	20.10	810	JN
15.	1,2:4,5-DIBENZPYRENE	21.67	1300	JN
16.	1,2:3,4-DIBENZPYRENE	21.78	920	JN
17. 192-65-4	NAPHTHO[1,2,3,4-DEF]CHRYSENE	21.84	740	JN
18. 191-07-1	CORONENE	22.34	1900	JN
19.				
20.				
21.				
22.				
23.				
24.				
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SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE:	10/06/99	DATA FILE:	F9100521.D
SAMPLE ID:	APF86	MATRIX:	SOIL
LAB ID:	40521.08	DATE ANALYZED:	10/05/99

	CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1)	003377-86-4	HEXANE, 2-BROMO-	3.26	2492

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF87

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.09

Sample wt/vol: 32.8 (g/mL) G Lab File ID: F9100508.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 3 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	830	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	830	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	830	U
83-32-9	Acenaphthene	330	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF87

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.09

Sample wt/vol: 32.8 (g/mL) G Lab File ID: F9100508.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 3 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9

UIC 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	830	U J
100-02-7	4-Nitrophenol	830	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	830	U
85-01-8	Phenanthrene	35	J
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	70	J
129-00-0	Pyrene	56	J
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	33	J
218-01-9	Chrysene	35	J
117-81-7	bis(2-Ethylhexyl)phthalate	330 ~~18~~	~~BJ~~ U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	24	J
207-08-9	Benzo(k)fluoranthene	48	J
50-32-8	Benzo(a)pyrene	31	J
193-39-5	Indeno(1,2,3-cd)pyrene	25	J
53-70-3	Dibenz(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	25	J

(1) Cannot be seperated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

APF87

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.09

Sample wt/vol: 32.8 (g/mL) G Lab File ID: F9100508.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 3 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9

Number TICs found: 14

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 563-80-4	2-BUTANONE, 3-METHYL-	1.06	570	BJN
2. 814-78-8	3-BUTEN-2-ONE, 3-METHYL-	1.13	82	JN
3.	UNKNOWN	1.18	110	BJ
4.	UNKNOWN	1.22	67	BJ
5.	UNKNOWN	1.60	150	BJ
6. 141-79-7	3-PENTEN-2-ONE, 4-METHYL-	1.97	3100	ABJN
7.	UNKNOWN	2.17	210	BJ
8.	UNKNOWN	2.35	71	J
9. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	2.39	3200	ABJN
10.	UNKNOWN	3.46	1200	BJ
11.	UNKNOWN	3.56	84	J
12.	UNKNOWN	4.44	510	BJ
13.	UNKNOWN AMIDE	15.58	110	BJ
14. 123-28-4	PROPANOIC ACID, 3,3'-THIOBIS	21.59	69	BJN
15.				
16.				
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SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 10/05/99 DATA FILE: F9100508.D

SAMPLE ID: APF87 MATRIX: SOIL
LAB ID: 40521.09 DATE ANALYZED: 10/05/99

	CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1)	002216-30-0	HEPTANE, 2,5-DIMETHYL-	2.29	115
2)	003074-71-3	HEPTANE, 2,3-DIMETHYL-	2.49	159
3)	003221-61-2	OCTANE, 2-METHYL-	2.57	71
4)	002216-34-4	OCTANE, 4-METHYL-	3.25	175

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF88

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.10

Sample wt/vol: 31.4 (g/mL) G Lab File ID: F9100509.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 10 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
111-91-1	bis(2-Chloroethoxy)methane	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	880	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	880	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	880	U
83-32-9	Acenaphthene	350	U

44

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF88

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.10

Sample wt/vol: 31.4 (g/mL) G Lab File ID: F9100509.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 10 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.8

UK 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	880	U J
100-02-7	4-Nitrophenol	880	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	880	U
534-52-1	4,6-Dinitro-2-methylphenol	880	U
86-30-6	N-Nitrosodiphenylamine (1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	880	U
85-01-8	Phenanthrene	22	J
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	350	U
206-44-0	Fluoranthene	41	J
129-00-0	Pyrene	35	J
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	350	U
56-55-3	Benzo(a)anthracene	23	J
218-01-9	Chrysene	27	J
117-81-7	bis(2-Ethylhexyl)phthalate	350 ~~51~~	~~BJ~~ U
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	21	J
207-08-9	Benzo(k)fluoranthene	25	J
50-32-8	Benzo(a)pyrene	21	J
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenz(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	19	J

(1) Cannot be seperated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

APF88

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.10

Sample wt/vol: 31.4 (g/mL) G Lab File ID: F9100509.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 10 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.8

Number TICs found: 22

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 563-80-4	2-BUTANONE, 3-METHYL-	1.06	620	BJN
2. 814-78-8	3-BUTEN-2-ONE, 3-METHYL-	1.13	180	JN
3.	UNKNOWN	1.18	220	BJ
4.	UNKNOWN	1.22	110	BJ
5. 68-12-2	FORMAMIDE, N,N-DIMETHYL-	1.90	71	JN
6. 141-79-7	3-PENTEN-2-ONE, 4-METHYL-	1.98	4100	ABJN
7.	UNKNOWN	2.10	95	BJ
8.	UNKNOWN	2.16	320	BJ
9.	UNKNOWN	2.34	150	J
10. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	2.39	4400	ABJN
11.	UNKNOWN	3.46	1700	BJ
12.	UNKNOWN	3.56	160	J
13.	UNKNOWN	3.74	290	J
14.	UNKNOWN	4.10	90	J
15.	UNKNOWN	4.44	1200	BJ
16.	UNKNOWN	5.06	90	J
17. 495-61-4	CYCLOHEXENE, 1-METHYL-4-(5-M	9.54	71	JN
18. 57-10-3	HEXADECANOIC ACID	13.03	96	JN
19. 4337-65-9	HEXANEDIOIC ACID, MONO(2-ETH	15.74	73	JN
20. 27519-02-4	9-TRICOSENE, (Z)-	17.33	120	JN
21.	UNKNOWN HYDROCARBON	20.44	170	J
22.	UNKNOWN	21.59	150	J
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 10/05/99 DATA FILE: F9100509.D

SAMPLE ID: APF88 MATRIX: SOIL
LAB ID: 40521.10 DATE ANALYZED: 10/05/99

	CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1)	000079-29-8	BUTANE, 2,3-DIMETHYL-	1.60	248
2)	002216-30-0	HEPTANE, 2,5-DIMETHYL-	2.29	138
3)	003074-71-3	HEPTANE, 2,3-DIMETHYL-	2.49	230
4)	000871-83-0	NONANE, 2-METHYL-	2.57	104
5)	002216-33-3	OCTANE, 3-METHYL-	2.64	74
6)	002216-34-4	OCTANE, 4-METHYL-	3.26	647
7)	000629-92-5	NONADECANE	18.29	109
8)	055124-79-3	HEPTADECANE, 9-HEXYL-	19.21	181
9)	000629-92-5	NONADECANE	20.06	195

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF89

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.11

Sample wt/vol: 32.8 (g/mL) G Lab File ID: F9100510.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 10 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	2,2'-oxybis(1-Chloropropane)	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	840	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	840	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U
99-09-2	3-Nitroaniline	840	U
83-32-9	Acenaphthene	340	U

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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF89

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.11

Sample wt/vol: 32.8 (g/mL) G Lab File ID: F9100510.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 10 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.0

UUL 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	840	U J
100-02-7	4-Nitrophenol	840	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	840	U
534-52-1	4,6-Dinitro-2-methylphenol	840	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	840	U
85-01-8	Phenanthrene	27	J
120-12-7	Anthracene	340	U
86-74-8	Carbazole	340	U
84-74-2	Di-n-butylphthalate	340	U
206-44-0	Fluoranthene	72	J
129-00-0	Pyrene	60	J
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	340	U
56-55-3	Benzo(a)anthracene	37	J
218-01-9	Chrysene	35	J
117-81-7	bis(2-Ethylhexyl)phthalate	340 ~~29~~	~~BJ~~ u
117-84-0	Di-n-octylphthalate	340	U
205-99-2	Benzo(b)fluoranthene	33	J
207-08-9	Benzo(k)fluoranthene	33	J
50-32-8	Benzo(a)pyrene	36	J
193-39-5	Indeno(1,2,3-cd)pyrene	22	J
53-70-3	Dibenz(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	24	J

(1) Cannot be seperated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

APF89

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.11

Sample wt/vol: 32.8 (g/mL) G Lab File ID: F9100510.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 10 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.0

Number TICs found: 24

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 563-80-4	2-BUTANONE, 3-METHYL-	1.06	650	BJN
2. 814-78-8	3-BUTEN-2-ONE, 3-METHYL-	1.13	200	JN
3.	UNKNOWN	1.18	210	BJ
4.	UNKNOWN	1.60	330	BJ
5.	UNKNOWN	1.65	76	BJ
6.	UNKNOWN	1.90	110	BJ
7. 141-79-7	3-PENTEN-2-ONE, 4-METHYL-	1.99	5300	ABJN
8.	UNKNOWN	2.17	240	BJ
9.	UNKNOWN	2.35	86	J
10. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	2.39	3500	ABJN
11.	UNKNOWN	3.26	760	BJ
12.	UNKNOWN	3.46	1400	BJ
13.	UNKNOWN	3.56	120	J
14.	UNKNOWN	3.74	240	J
15.	UNKNOWN	4.11	72	J
16.	UNKNOWN	4.44	1200	BJ
17.	UNKNOWN	5.06	82	J
18. 495-61-4	CYCLOHEXENE, 1-METHYL-4-(5-M	9.54	150	JN
19. 57-10-3	HEXADECANOIC ACID	13.02	130	JN
20.	UNKNOWN	19.84	110	J
21.	UNKNOWN	20.18	91	J
22.	UNKNOWN PAH	20.44	160	J
23.	UNKNOWN PAH	20.99	80	J
24.	UNKNOWN	21.59	220	J
25.				
26.				
27.				
28.				
29.				
30.				

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 10/05/99 DATA FILE: F9100510.D

SAMPLE ID: APF89 MATRIX: SOIL
LAB ID: 40521.11 DATE ANALYZED: 10/05/99

	CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1)	002216-30-0	HEPTANE, 2,5-DIMETHYL-	2.29	139
2)	001636-43-7	DECANE, 5,6-DIMETHYL-	2.49	232
3)	002213-23-2	HEPTANE, 2,4-DIMETHYL-	2.57	87
4)	000297-03-0	CYCLOTETRACOSANE	17.34	134
5)	000629-92-5	NONADECANE	18.29	103
6)	000629-94-7	HENEICOSANE	19.20	165
7)	000629-59-4	TETRADECANE	20.05	99

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF90

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.12

Sample wt/vol: 30.7 (g/mL) G Lab File ID: F9100511.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 4 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	2,2'-oxybis(1-Chloropropane)	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	18	J
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	840	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	840	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U
99-09-2	3-Nitroaniline	840	U
83-32-9	Acenaphthene	340	U

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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF90

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.12

Sample wt/vol: 30.7 (g/mL) G Lab File ID: F9100511.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 4 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CLL 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	840	U J
100-02-7	4-Nitrophenol	840	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	840	U
534-52-1	4,6-Dinitro-2-methylphenol	840	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	840	U
85-01-8	Phenanthrene	84	J
120-12-7	Anthracene	25	J
86-74-8	Carbazole	340	U
84-74-2	Di-n-butylphthalate	340	U
206-44-0	Fluoranthene	170	J
129-00-0	Pyrene	140	J
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	340	U
56-55-3	Benzo(a)anthracene	91	J
218-01-9	Chrysene	96	J
117-81-7	bis(2-Ethylhexyl)phthalate	340 ~~28~~	~~BJ~~ U
117-84-0	Di-n-octylphthalate	340	U
205-99-2	Benzo(b)fluoranthene	76	J
207-08-9	Benzo(k)fluoranthene	92	J
50-32-8	Benzo(a)pyrene	92	J
193-39-5	Indeno(1,2,3-cd)pyrene	59	J
53-70-3	Dibenz(a,h)anthracene	28	J
191-24-2	Benzo(g,h,i)perylene	66	J

(1) Cannot be seperated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

APF90

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.12

Sample wt/vol: 30.7 (g/mL) G Lab File ID: F9100511.D

Level: (low/med) LOW Date Received: 10/01/99

% Moisture: 4 decanted: (Y/N) N Date Extracted: 10/01/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/05/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

Number TICs found: 21

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	814-78-8	3-BUTEN-2-ONE, 3-METHYL-	1.12	260	JN
2.		UNKNOWN	1.19	200	BJ
3.		UNKNOWN	1.21	90	BJ
4.		UNKNOWN	1.60	340	BJ
5.	141-79-7	3-PENTEN-2-ONE, 4-METHYL-	1.98	5900	ABJN
6.		UNKNOWN	2.17	200	BJ
7.		UNKNOWN	2.35	77	J
8.	123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	2.39	3800	ABJN
9.		UNKNOWN	3.46	1200	BJ
10.		UNKNOWN	3.57	86	J
11.		UNKNOWN	3.74	130	J
12.		UNKNOWN	4.45	1100	BJ
13.		UNKNOWN	5.07	88	J
14.		UNKNOWN AMIDE	13.12	84	J
15.		UNKNOWN AMIDE	14.35	92	BJ
16.		UNKNOWN AMIDE	14.48	130	BJ
17.		UNKNOWN AMIDE	15.58	1400	BJ
18.		UNKNOWN AMIDE	15.71	77	BJ
19.		UNKNOWN	19.80	73	J
20.	514-07-8	D-FRIEDOOLEAN-14-EN-3-ONE	20.44	95	JN
21.	123-28-4	PROPANOIC ACID, 3,3'-THIOBIS	21.58	200	BJN
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 10/05/99 DATA FILE: F9100511.D

SAMPLE ID: APF90 MATRIX: SOIL
LAB ID: 40521.12 DATE ANALYZED: 10/05/99

	CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1)	017312-50-4	DECANE, 2,5-DIMETHYL-	2.28	130
2)	003074-71-3	HEPTANE, 2,3-DIMETHYL-	2.49	220
3)	003221-61-2	OCTANE, 2-METHYL-	2.57	75
4)	000112-58-3	HEXANE, 1,1'-OXYBIS-	3.25	717
5)	004291-79-6	CYCLOHEXANE, 1-METHYL-2-PROPYL-	3.41	72
6)	000294-62-2	CYCLODODECANE	11.05	82

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF79

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.01

Sample wt/vol: 31.8 (g/mL) G Lab File ID: _____

% Moisture: 9 decanted: (Y/N) N Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/01/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 10/14/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4 Sulfur Cleanup: (Y/N) N

UKK 12/16/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	3.9	J
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	R ~~3.0~~	~~P~~ ~~J~~ R UKK 12/16/99
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	R ~~5.3~~	~~P~~ ~~J~~ R UKK 12/16/99
959-98-8	Endosulfan I	R ~~9.8~~	~~P~~ ~~J~~ R
60-57-1	Dieldrin	R ~~21~~	~~P~~ ~~J~~ R
72-55-9	4,4'-DDE	20	~~P~~ J
72-20-8	Endrin	R ~~11~~	~~P~~ ~~J~~ R
33213-65-9	Endosulfan II	4.0	~~P~~ J
72-54-8	4,4'-DDD	3.4	U
1031-07-8	Endosulfan sulfate	13	J
50-29-3	4,4'-DDT	75 ~~82~~	~~P~~ ~~J~~ UKK 12/16/99
72-43-5	Methoxychlor	40	J
53494-70-5	Endrin ketone	3.4	U
7421-93-4	Endrin aldehyde	R ~~3.4~~	~~P~~ ~~J~~ R UKK 12/16/99
5103-71-9	alpha-Chlordane	8.6	~~P~~ J
5103-74-2	gamma-Chlordane	R ~~4.4~~	~~P~~ ~~J~~ R
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	34	U
11104-28-2	Aroclor-1221	69	U
11141-16-5	Aroclor-1232	34	U
53469-21-9	Aroclor-1242	34	U
12672-29-6	Aroclor-1248	34	U
11097-69-1	Aroclor-1254	380	J
11096-82-5	Aroclor-1260	34	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF79DL

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.01DL

Sample wt/vol: 31.8 (g/mL) G Lab File ID: _____

% Moisture: 9 decanted: (Y/N) N Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/01/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 10/14/99

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.4 Sulfur Cleanup: (Y/N) N

use only 4,4'-DDT
CMK 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	18	U
319-85-7	beta-BHC	18	U
319-86-8	delta-BHC	18	U
58-89-9	gamma-BHC (Lindane)	18	U
76-44-8	Heptachlor	2.7	DPJ
309-00-2	Aldrin	18	U
1024-57-3	Heptachlor epoxide	7.2	DPJ
959-98-8	Endosulfan I	6.7	DPJ
60-57-1	Dieldrin	22	DPJ
72-55-9	4,4'-DDE	15	DPJ
72-20-8	Endrin	4.9	DPJ
33213-65-9	Endosulfan II	34	U
72-54-8	4,4'-DDD	34	U
1031-07-8	Endosulfan sulfate	34	U
50-29-3	4,4'-DDT	75	DP
72-43-5	Methoxychlor	180	U
53494-70-5	Endrin ketone	34	U
7421-93-4	Endrin aldehyde	34	U
5103-71-9	alpha-Chlordane	5.5	DPJ
5103-74-2	gamma-Chlordane	18	U
8001-35-2	Toxaphene	1800	U
12674-11-2	Aroclor-1016	340	U
11104-28-2	Aroclor-1221	690	U
11141-16-5	Aroclor-1232	340	U
53469-21-9	Aroclor-1242	340	U
12672-29-6	Aroclor-1248	340	U
11097-69-1	Aroclor-1254	390	D
11096-82-5	Aroclor-1260	340	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF80

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.02

Sample wt/vol: 31.1 (g/mL) G Lab File ID: _____

% Moisture: 15 decanted: (Y/N) N Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/01/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 10/14/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.7 Sulfur Cleanup: (Y/N) N

LKK 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9 ~~1.3~~	~~PJ~~ UJ
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	R ~~2.3~~	~~P~~ J R LKK 12/14/99
60-57-1	Dieldrin	R ~~2.2~~	~~PJ~~ J R ✓
72-55-9	4,4'-DDE	3.7	U
72-20-8	Endrin	7.7	~~P~~ J
33213-65-9	Endosulfan II	3.7	U
72-54-8	4,4'-DDD	R ~~12~~	~~P~~ J R LKK 12/14/99
1031-07-8	Endosulfan sulfate	R ~~10~~	~~P~~ J R
50-29-3	4,4'-DDT	11	~~P~~ J
72-43-5	Methoxychlor	53	J
53494-70-5	Endrin ketone	17	J
7421-93-4	Endrin aldehyde	7.0	~~P~~ J
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	76	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	37	U
11096-82-5	Aroclor-1260	37	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF80DL

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.02DL

Sample wt/vol: 31.1 (g/mL) G Lab File ID: _____

% Moisture: 15 decanted: (Y/N) N Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/01/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 10/14/99

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 5.7 Sulfur Cleanup: (Y/N) N

do not use LLL 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	19	U
319-85-7	beta-BHC	19	U
319-86-8	delta-BHC	19	U
58-89-9	gamma-BHC (Lindane)	19	U
76-44-8	Heptachlor	19	U
309-00-2	Aldrin	19	U
1024-57-3	Heptachlor epoxide	19	U
959-98-8	Endosulfan I	19	U
60-57-1	Dieldrin	37	U
72-55-9	4,4'-DDE	37	U
72-20-8	Endrin	37	U
33213-65-9	Endosulfan II	37	U
72-54-8	4,4'-DDD	37	U
1031-07-8	Endosulfan sulfate	5.8	DPJ
50-29-3	4,4'-DDT	13	DPJ
72-43-5	Methoxychlor	190	U
53494-70-5	Endrin ketone	10	DPJ
7421-93-4	Endrin aldehyde	37	U
5103-71-9	alpha-Chlordane	19	U
5103-74-2	gamma-Chlordane	19	U
8001-35-2	Toxaphene	1900	U
12674-11-2	Aroclor-1016	370	U
11104-28-2	Aroclor-1221	760	U
11141-16-5	Aroclor-1232	370	U
53469-21-9	Aroclor-1242	370	U
12672-29-6	Aroclor-1248	370	U
11097-69-1	Aroclor-1254	370	U
11096-82-5	Aroclor-1260	370	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF81

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.03

Sample wt/vol: 30.6 (g/mL) G Lab File ID: _____

% Moisture: 9 decanted: (Y/N) N Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/01/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 10/14/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

UUK 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	R ~~2.6~~	~~P~~ J R UUK 12/10/99
319-86-8	delta-BHC	1.8 ~~0.55~~	~~PJ~~ U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8 ~~0.37~~	~~PJ~~ U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8 ~~1.7~~	~~PJ~~ U
959-98-8	Endosulfan I	1.8 ~~0.98~~	~~PJ~~ U
60-57-1	Dieldrin	R ~~5.2~~	~~P~~ J R UUK 12/10/99
72-55-9	4,4'-DDE	R ~~4.8~~	~~P~~ J R
72-20-8	Endrin	R ~~4.4~~	~~P~~ J R
33213-65-9	Endosulfan II	3.6 ~~2.2~~	~~PJ~~ J
72-54-8	4,4'-DDD	R ~~41~~	~~P~~ J R
1031-07-8	Endosulfan sulfate	R ~~6.6~~	~~P~~ J R
50-29-3	4,4'-DDT	R ~~9.6~~	~~P~~ J R
72-43-5	Methoxychlor	18	U J
53494-70-5	Endrin ketone	47	J
7421-93-4	Endrin aldehyde	5.5	~~P~~ J
5103-71-9	alpha-Chlordane	1.8 ~~0.66~~	~~PJ~~ U
5103-74-2	gamma-Chlordane	2.6	~~P~~ J
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	36	U
11104-28-2	Aroclor-1221	72	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	36	U
12672-29-6	Aroclor-1248	36	U
11097-69-1	Aroclor-1254	36	U
11096-82-5	Aroclor-1260	36	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF81DL

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.03DL

Sample wt/vol: 30.6 (g/mL) G Lab File ID: _____

% Moisture: 9 decanted: (Y/N) N Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/01/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 10/14/99

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

do not use JEK 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	18	U
319-85-7	beta-BHC	18	U
319-86-8	delta-BHC	18	U
58-89-9	gamma-BHC (Lindane)	18	U
76-44-8	Heptachlor	18	U
309-00-2	Aldrin	18	U
1024-57-3	Heptachlor epoxide	18	U
959-98-8	Endosulfan I	2.7	DPJ
60-57-1	Dieldrin	8.4	DPJ
72-55-9	4,4'-DDE	36	U
72-20-8	Endrin	5.2	DJ
33213-65-9	Endosulfan II	36	U
72-54-8	4,4'-DDD	33	DPJ
1031-07-8	Endosulfan sulfate	19	DPJ
50-29-3	4,4'-DDT	26	DJ
72-43-5	Methoxychlor	180	U
53494-70-5	Endrin ketone	57	D
7421-93-4	Endrin aldehyde	4.4	DPJ
5103-71-9	alpha-Chlordane	18	U
5103-74-2	gamma-Chlordane	18	U
8001-35-2	Toxaphene	1800	U
12674-11-2	Aroclor-1016	360	U
11104-28-2	Aroclor-1221	720	U
11141-16-5	Aroclor-1232	360	U
53469-21-9	Aroclor-1242	360	U
12672-29-6	Aroclor-1248	360	U
11097-69-1	Aroclor-1254	360	U
11096-82-5	Aroclor-1260	360	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF82

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.04

Sample wt/vol: 31.8 (g/mL) G Lab File ID: _____

% Moisture: 16 decanted: (Y/N) N Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/01/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 10/14/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

LLK 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	R ~~41~~ ~~33~~	~~PE~~ R LLK 12/16/99
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	R ~~20~~	~~P~~ R
959-98-8	Endosulfan I	R ~~18~~	~~P~~ R
60-57-1	Dieldrin	R ~~95~~ ~~67~~	~~PE~~ R LLK 12/16/99
72-55-9	4,4'-DDE	82 ~~100~~	~~PE~~ J
72-20-8	Endrin	3.7	U J
33213-65-9	Endosulfan II	3.7	U
72-54-8	4,4'-DDD	3.7	U
1031-07-8	Endosulfan sulfate	22 ~~73~~	~~PE~~ J
50-29-3	4,4'-DDT	300 ~~330~~	~~E~~ J
72-43-5	Methoxychlor	180	~~P~~ J
53494-70-5	Endrin ketone	60 ~~83~~	~~PE~~ J
7421-93-4	Endrin aldehyde	R ~~49~~	~~P~~ J R LLK 12/16/99
5103-71-9	alpha-Chlordane	R ~~5.3~~	~~P~~ J R
5103-74-2	gamma-Chlordane	R ~~19~~ ~~66~~	~~PE~~ R
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	75	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	1700	~~P~~ J
11096-82-5	Aroclor-1260	37	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF82DL

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.04DL

Sample wt/vol: 31.8 (g/mL) G Lab File ID: _____

% Moisture: 16 decanted: (Y/N) N Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/01/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 10/14/99

Injection Volume: 0.5(uL) Dilution Factor: 10.0 use exceeded cmpds only

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CKK 12/16/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	10	DPJ
319-85-7	beta-BHC	41	DP
319-86-8	delta-BHC	19	U
58-89-9	gamma-BHC (Lindane)	19	U
76-44-8	Heptachlor	12	DPJ
309-00-2	Aldrin	19	U
1024-57-3	Heptachlor epoxide	8.0	DPJ
959-98-8	Endosulfan I	21	DP
60-57-1	Dieldrin	75	DP
72-55-9	4,4'-DDE	82	DP
72-20-8	Endrin	14	DPJ
33213-65-9	Endosulfan II	8.5	DPJ
72-54-8	4,4'-DDD	37	U
1031-07-8	Endosulfan sulfate	22	DJ
50-29-3	4,4'-DDT	300	D
72-43-5	Methoxychlor	57	DPJ
53494-70-5	Endrin ketone	60	D
7421-93-4	Endrin aldehyde	37	U
5103-71-9	alpha-Chlordane	19	U
5103-74-2	gamma-Chlordane	19	DP
8001-35-2	Toxaphene	1900	U
12674-11-2	Aroclor-1016	370	U
11104-28-2	Aroclor-1221	750	U
11141-16-5	Aroclor-1232	370	U
53469-21-9	Aroclor-1242	370	U
12672-29-6	Aroclor-1248	370	U
11097-69-1	Aroclor-1254	2300	D
11096-82-5	Aroclor-1260	370	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF83

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 13 decanted: (Y/N) N Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/01/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 10/14/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Sulfur Cleanup: (Y/N) N

CKK 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U J
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	R ~~15~~	~~P~~ J R CKK 12/16/99
72-55-9	4,4'-DDE	R ~~16~~	~~P~~ J R
72-20-8	Endrin	R ~~11~~	~~P~~ J R
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	12	~~P~~ J
50-29-3	4,4'-DDT	R ~~41~~	~~P~~ J R CKK 12/16/99
72-43-5	Methoxychlor	R ~~120~~	~~P~~ J R
53494-70-5	Endrin ketone	56	~~P~~ J
7421-93-4	Endrin aldehyde	50	J
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	R ~~13~~ ~~44~~	~~E~~ ~~J~~ R CKK 12/16/99
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	77	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF83DL

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.05DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 13 decanted: (Y/N) N Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/01/99

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/14/99

Injection Volume: 0.5 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.5 Sulfur Cleanup: (Y/N) N

use only g-chlordane

UCK 12/10/99

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	UG/KG	Q
319-84-6	alpha-BHC	13	DPJ
319-85-7	beta-BHC	20	U
319-86-8	delta-BHC	20	U
58-89-9	gamma-BHC (Lindane)	20	U
76-44-8	Heptachlor	20	U
309-00-2	Aldrin	20	U
1024-57-3	Heptachlor epoxide	4.6	DPJ
959-98-8	Endosulfan I	20	U
60-57-1	Dieldrin	20	DPJ
72-55-9	4,4'-DDE	17	DPJ
72-20-8	Endrin	18	DJ
33213-65-9	Endosulfan II	10	DPJ
72-54-8	4,4'-DDD	38	U
1031-07-8	Endosulfan sulfate	12	DPJ
50-29-3	4,4'-DDT	54	DP
72-43-5	Methoxychlor	200	U
53494-70-5	Endrin ketone	92	DP
7421-93-4	Endrin aldehyde	38	U
5103-71-9	alpha-Chlordane	8.4	DJ
5103-74-2	gamma-Chlordane	13	DPJ
8001-35-2	Toxaphene	2000	U
12674-11-2	Aroclor-1016	380	U
11104-28-2	Aroclor-1221	770	U
11141-16-5	Aroclor-1232	380	U
53469-21-9	Aroclor-1242	380	U
12672-29-6	Aroclor-1248	380	U
11097-69-1	Aroclor-1254	380	U
11096-82-5	Aroclor-1260	380	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF84

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.06

Sample wt/vol: 30.7 (g/mL) G Lab File ID: _____

% Moisture: 16 decanted: (Y/N) N Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/01/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 10/14/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4 Sulfur Cleanup: (Y/N) N

LKK 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	UJ
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	R ~~10~~	~~P~~ J R LKK
72-55-9	4,4'-DDE	R ~~6.9~~	~~P~~ J R 12/16/99
72-20-8	Endrin	3.8	UJ
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	73 ~~87~~	~~PE~~ J
1031-07-8	Endosulfan sulfate	8.0	~~P~~ J
50-29-3	4,4'-DDT	R ~~16~~	~~P~~ J R LKK
72-43-5	Methoxychlor	R ~~47~~	~~P~~ J R 12/16/99
53494-70-5	Endrin ketone	R ~~22~~	~~P~~ J R
7421-93-4	Endrin aldehyde	12	J
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	3.7	~~P~~ J
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	78	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF84DL

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.06DL

Sample wt/vol: 30.7 (g/mL) G Lab File ID: _____

% Moisture: 16 decanted: (Y/N) N Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/01/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 10/14/99

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.4 Sulfur Cleanup: (Y/N) N

use only 4,4'-DDD ALL 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	20	U
319-85-7	beta-BHC	20	U
319-86-8	delta-BHC	20	U
58-89-9	gamma-BHC (Lindane)	20	U
76-44-8	Heptachlor	20	U
309-00-2	Aldrin	20	U
1024-57-3	Heptachlor epoxide	20	U
959-98-8	Endosulfan I	20	U
60-57-1	Dieldrin	18	DPJ
72-55-9	4,4'-DDE	38	U
72-20-8	Endrin	38	U
33213-65-9	Endosulfan II	38	U
72-54-8	4,4'-DDD	73	D
1031-07-8	Endosulfan sulfate	38	U
50-29-3	4,4'-DDT	3.2	DPJ
72-43-5	Methoxychlor	200	U
53494-70-5	Endrin ketone	15	DPJ
7421-93-4	Endrin aldehyde	38	U
5103-71-9	alpha-Chlordane	20	U
5103-74-2	gamma-Chlordane	20	U
8001-35-2	Toxaphene	2000	U
12674-11-2	Aroclor-1016	380	U
11104-28-2	Aroclor-1221	780	U
11141-16-5	Aroclor-1232	380	U
53469-21-9	Aroclor-1242	380	U
12672-29-6	Aroclor-1248	380	U
11097-69-1	Aroclor-1254	380	U
11096-82-5	Aroclor-1260	380	U

1002

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF85

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.07

Sample wt/vol: 30.6 (g/mL) G Lab File ID: _____

% Moisture: 9 decanted: (Y/N) N Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/01/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 10/14/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Sulfur Cleanup: (Y/N) N

LKK 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	UJ
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	R ~~2.0~~	~~P~~ J R LKK 12/16/99
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	R ~~12~~	~~P~~ J R
72-55-9	4,4'-DDE	38	~~P~~ J
72-20-8	Endrin	3.6	UJ
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	R ~~14~~	~~P~~ J R LKK 12/16/99
1031-07-8	Endosulfan sulfate	3.6	U
50-29-3	4,4'-DDT	R ~~35~~	~~P~~ J R
72-43-5	Methoxychlor	18	UJ
53494-70-5	Endrin ketone	21	
7421-93-4	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8 ~~1.7~~	~~PJ~~ U
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	36	U
11104-28-2	Aroclor-1221	72	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	36	U
12672-29-6	Aroclor-1248	36	U
11097-69-1	Aroclor-1254	360	~~P~~ J
11096-82-5	Aroclor-1260	36	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF85DL

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.07DL

Sample wt/vol: 30.6 (g/mL) G Lab File ID: _____

% Moisture: 9 decanted: (Y/N) N Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/01/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 10/14/99

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.5 Sulfur Cleanup: (Y/N) N

do not use 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	18	U
319-85-7	beta-BHC	18	U
319-86-8	delta-BHC	18	U
58-89-9	gamma-BHC (Lindane)	18	U
76-44-8	Heptachlor	18	U
309-00-2	Aldrin	18	U
1024-57-3	Heptachlor epoxide	2.5	DPJ
959-98-8	Endosulfan I	18	U
60-57-1	Dieldrin	18	DPJ
72-55-9	4,4'-DDE	23	DPJ
72-20-8	Endrin	36	U
33213-65-9	Endosulfan II	36	U
72-54-8	4,4'-DDD	5.6	DPJ
1031-07-8	Endosulfan sulfate	36	U
50-29-3	4,4'-DDT	40	DP
72-43-5	Methoxychlor	180	U
53494-70-5	Endrin ketone	16	DJ
7421-93-4	Endrin aldehyde	36	U
5103-71-9	alpha-Chlordane	18	U
5103-74-2	gamma-Chlordane	1.7	DPJ
8001-35-2	Toxaphene	1800	U
12674-11-2	Aroclor-1016	360	U
11104-28-2	Aroclor-1221	720	U
11141-16-5	Aroclor-1232	360	U
53469-21-9	Aroclor-1242	360	U
12672-29-6	Aroclor-1248	360	U
11097-69-1	Aroclor-1254	350	DJP
11096-82-5	Aroclor-1260	360	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF86

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.08

Sample wt/vol: 32.8 (g/mL) G Lab File ID: _____

% Moisture: 10 decanted: (Y/N) N Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/01/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 10/14/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) N

UKK 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	UJ
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	R ~~2.0~~	~~P~~ ~~J~~ R
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	R ~~9.8~~	~~P~~ ~~J~~ R
72-55-9	4,4'-DDE	R ~~12~~	~~P~~ ~~J~~ R
72-20-8	Endrin	3.4	UJ
33213-65-9	Endosulfan II	3.4	U
72-54-8	4,4'-DDD	R ~~7.1~~	~~P~~ ~~J~~ R
1031-07-8	Endosulfan sulfate	R ~~3.9~~	~~P~~ ~~J~~ R
50-29-3	4,4'-DDT	~~4952~~	~~E~~ J
72-43-5	Methoxychlor	17	UJ
53494-70-5	Endrin ketone	10	
7421-93-4	Endrin aldehyde	3.4	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	R ~~4.0~~	~~P~~ ~~J~~ R
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	34	U
11104-28-2	Aroclor-1221	68	U
11141-16-5	Aroclor-1232	34	U
53469-21-9	Aroclor-1242	34	U
12672-29-6	Aroclor-1248	34	U
11097-69-1	Aroclor-1254	380	
11096-82-5	Aroclor-1260	34	U

UKK 12/16/99

V

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF86DL

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.08DL

Sample wt/vol: 32.8 (g/mL) G Lab File ID: _____

% Moisture: 10 decanted: (Y/N) N Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/01/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 10/14/99

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) N

use 4,4'-DDT only
UCK 10/10/99

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	17	U
319-85-7	beta-BHC	17	U
319-86-8	delta-BHC	17	U
58-89-9	gamma-BHC (Lindane)	17	U
76-44-8	Heptachlor	17	U
309-00-2	Aldrin	17	U
1024-57-3	Heptachlor epoxide	2.0	DPJ
959-98-8	Endosulfan I	17	U
60-57-1	Dieldrin	16	DPJ
72-55-9	4,4'-DDE	6.4	DPJ
72-20-8	Endrin	34	U
33213-65-9	Endosulfan II	34	U
72-54-8	4,4'-DDD	10	DPJ
1031-07-8	Endosulfan sulfate	7.0	DPJ
50-29-3	4,4'-DDT	49	DP
72-43-5	Methoxychlor	170	U
53494-70-5	Endrin ketone	9.1	DJ
7421-93-4	Endrin aldehyde	34	U
5103-71-9	alpha-Chlordane	17	U
5103-74-2	gamma-Chlordane	1.6	DPJ
8001-35-2	Toxaphene	1700	U
12674-11-2	Aroclor-1016	340	U
11104-28-2	Aroclor-1221	680	U
11141-16-5	Aroclor-1232	340	U
53469-21-9	Aroclor-1242	340	U
12672-29-6	Aroclor-1248	340	U
11097-69-1	Aroclor-1254	380	D
11096-82-5	Aroclor-1260	340	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF87

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.09

Sample wt/vol: 31.0 (g/mL) G Lab File ID: _____

% Moisture: 3 decanted: (Y/N) N Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/01/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 10/14/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	UJ
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7 ~~0.87~~	~~PJ~~ U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	UJ
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	2.3J ~~3.3~~ ~~2.5~~	~~PJ~~ [illegible] 12/16/9
72-43-5	Methoxychlor	17	UJ
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF87DL

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.09DL

Sample wt/vol: 31.0 (g/mL) G Lab File ID: _____

% Moisture: 3 decanted: (Y/N) N Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/01/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 10/13/99

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) N

do not use 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	17	U
319-85-7	beta-BHC	17	U
319-86-8	delta-BHC	17	U
58-89-9	gamma-BHC (Lindane)	17	U
76-44-8	Heptachlor	17	U
309-00-2	Aldrin	17	U
1024-57-3	Heptachlor epoxide	17	U
959-98-8	Endosulfan I	17	U
60-57-1	Dieldrin	33	U
72-55-9	4,4'-DDE	33	U
72-20-8	Endrin	33	U
33213-65-9	Endosulfan II	33	U
72-54-8	4,4'-DDD	33	U
1031-07-8	Endosulfan sulfate	33	U
50-29-3	4,4'-DDT	33	U
72-43-5	Methoxychlor	170	U
53494-70-5	Endrin ketone	33	U
7421-93-4	Endrin aldehyde	33	U
5103-71-9	alpha-Chlordane	17	U
5103-74-2	gamma-Chlordane	17	U
8001-35-2	Toxaphene	1700	U
12674-11-2	Aroclor-1016	330	U
11104-28-2	Aroclor-1221	670	U
11141-16-5	Aroclor-1232	330	U
53469-21-9	Aroclor-1242	330	U
12672-29-6	Aroclor-1248	330	U
11097-69-1	Aroclor-1254	330	U
11096-82-5	Aroclor-1260	330	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF88

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.10

Sample wt/vol: 32.0 (g/mL) G Lab File ID: _____

% Moisture: 10 decanted: (Y/N) N Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/01/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 10/14/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.8 Sulfur Cleanup: (Y/N) N

UUK 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	UJ
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	0.29	~~PJ~~ J
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.4 ~~1.8~~ ~~1.3~~	~~PJ~~ U
72-55-9	4,4'-DDE	3.4 ~~1.8~~ ~~0.79~~	~~PJ~~ U
72-20-8	Endrin	3.4	UJ
33213-65-9	Endosulfan II	3.4	U
72-54-8	4,4'-DDD	3.4	U
1031-07-8	Endosulfan sulfate	3.4	U
50-29-3	4,4'-DDT	6.7	J
72-43-5	Methoxychlor	18	UJ
53494-70-5	Endrin ketone	3.4	U
7421-93-4	Endrin aldehyde	3.4	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	34	U
11104-28-2	Aroclor-1221	70	U
11141-16-5	Aroclor-1232	34	U
53469-21-9	Aroclor-1242	34	U
12672-29-6	Aroclor-1248	34	U
11097-69-1	Aroclor-1254	41	
11096-82-5	Aroclor-1260	34	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF88DL

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.10DL

Sample wt/vol: 32.0 (g/mL) G Lab File ID: _____

% Moisture: 10 decanted: (Y/N) N Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/01/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 10/13/99

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 4.8 Sulfur Cleanup: (Y/N) N

do not use 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	18	U
319-85-7	beta-BHC	18	U
319-86-8	delta-BHC	18	U
58-89-9	gamma-BHC (Lindane)	18	U
76-44-8	Heptachlor	18	U
309-00-2	Aldrin	18	U
1024-57-3	Heptachlor epoxide	18	U
959-98-8	Endosulfan I	18	U
60-57-1	Dieldrin	34	U
72-55-9	4,4'-DDE	34	U
72-20-8	Endrin	34	U
33213-65-9	Endosulfan II	34	U
72-54-8	4,4'-DDD	34	U
1031-07-8	Endosulfan sulfate	34	U
50-29-3	4,4'-DDT	2.6	DPJ
72-43-5	Methoxychlor	180	U
53494-70-5	Endrin ketone	34	U
7421-93-4	Endrin aldehyde	34	U
5103-71-9	alpha-Chlordane	18	U
5103-74-2	gamma-Chlordane	18	U
8001-35-2	Toxaphene	1800	U
12674-11-2	Aroclor-1016	340	U
11104-28-2	Aroclor-1221	700	U
11141-16-5	Aroclor-1232	340	U
53469-21-9	Aroclor-1242	340	U
12672-29-6	Aroclor-1248	340	U
11097-69-1	Aroclor-1254	50	DJ
11096-82-5	Aroclor-1260	340	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF89

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.11

Sample wt/vol: 31.4 (g/mL) G Lab File ID: _____

% Moisture: 10 decanted: (Y/N) N Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/01/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 10/14/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.0 Sulfur Cleanup: (Y/N) N

LKK 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	~~UJ~~
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	0.62	~~PJ~~ J
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8 ~~0.55~~	~~PJ~~ U
60-57-1	Dieldrin	3.5 ~~1.8~~ ~~1.5~~	~~PJ~~ U
72-55-9	4,4'-DDE	3.5 ~~1.8~~ ~~0.80~~	~~PJ~~ U
72-20-8	Endrin	3.5	~~UJ~~
33213-65-9	Endosulfan II	3.5	U
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
50-29-3	4,4'-DDT	4.4	~~P~~ J
72-43-5	Methoxychlor	18 ~~0.73~~	~~PJ~~ UJ
53494-70-5	Endrin ketone	3.5	U
7421-93-4	Endrin aldehyde	3.5	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	35	U
11104-28-2	Aroclor-1221	71	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	35	U
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	37	
11096-82-5	Aroclor-1260	35	U

1120

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF89DL

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.11DL

Sample wt/vol: 31.4 (g/mL) G Lab File ID: _____

% Moisture: 10 decanted: (Y/N) N Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/01/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 10/13/99

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 5.0 Sulfur Cleanup: (Y/N) N

do not use UK 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	18	U
319-85-7	beta-BHC	18	U
319-86-8	delta-BHC	18	U
58-89-9	gamma-BHC (Lindane)	18	U
76-44-8	Heptachlor	0.94	DJ
309-00-2	Aldrin	18	U
1024-57-3	Heptachlor epoxide	18	U
959-98-8	Endosulfan I	18	U
60-57-1	Dieldrin	4.1	DPJ
72-55-9	4,4'-DDE	1.6	DPJ
72-20-8	Endrin	35	U
33213-65-9	Endosulfan II	35	U
72-54-8	4,4'-DDD	35	U
1031-07-8	Endosulfan sulfate	35	U
50-29-3	4,4'-DDT	3.4	DPJ
72-43-5	Methoxychlor	180	U
53494-70-5	Endrin ketone	35	U
7421-93-4	Endrin aldehyde	35	U
5103-71-9	alpha-Chlordane	18	U
5103-74-2	gamma-Chlordane	18	U
8001-35-2	Toxaphene	1800	U
12674-11-2	Aroclor-1016	350	U
11104-28-2	Aroclor-1221	710	U
11141-16-5	Aroclor-1232	350	U
53469-21-9	Aroclor-1242	350	U
12672-29-6	Aroclor-1248	350	U
11097-69-1	Aroclor-1254	33	DJ
11096-82-5	Aroclor-1260	350	U

1143

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF90

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.12

Sample wt/vol: 31.1 (g/mL) G Lab File ID: _____

% Moisture: 4 decanted: (Y/N) N Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/01/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 10/14/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

UCK 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	~~UJ~~
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	0.69	~~PJ~~ J
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3 ~~1.4~~	~~PJ~~ U
72-55-9	4,4'-DDE	3.3 ~~0.71~~	~~PJ~~ U
72-20-8	Endrin	3.3	UJ
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	4.7	~~P~~ J
72-43-5	Methoxychlor	17	UJ
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

1162

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APF90DL

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) SOIL Lab Sample ID: 40521.12DL

Sample wt/vol: 31.1 (g/mL) G Lab File ID: _____

% Moisture: 4 decanted: (Y/N) N Date Received: 10/01/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/01/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 10/13/99

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

do not use LLK 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	17	U
319-85-7	beta-BHC	17	U
319-86-8	delta-BHC	17	U
58-89-9	gamma-BHC (Lindane)	17	U
76-44-8	Heptachlor	0.87	DPJ
309-00-2	Aldrin	17	U
1024-57-3	Heptachlor epoxide	17	U
959-98-8	Endosulfan I	17	U
60-57-1	Dieldrin	1.6	DPJ
72-55-9	4,4'-DDE	33	U
72-20-8	Endrin	33	U
33213-65-9	Endosulfan II	33	U
72-54-8	4,4'-DDD	33	U
1031-07-8	Endosulfan sulfate	33	U
50-29-3	4,4'-DDT	3.2	DPJ
72-43-5	Methoxychlor	170	U
53494-70-5	Endrin ketone	33	U
7421-93-4	Endrin aldehyde	33	U
5103-71-9	alpha-Chlordane	17	U
5103-74-2	gamma-Chlordane	17	U
8001-35-2	Toxaphene	1700	U
12674-11-2	Aroclor-1016	330	U
11104-28-2	Aroclor-1221	670	U
11141-16-5	Aroclor-1232	330	U
53469-21-9	Aroclor-1242	330	U
12672-29-6	Aroclor-1248	330	U
11097-69-1	Aroclor-1254	330	U
11096-82-5	Aroclor-1260	330	U

117i

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

APG52

Lab Name: SWL-TULSA Contract: 68-D5-0026

Lab Code: SWOK Case No.: 27436 SAS No.: SDG No.: APF79

Matrix: (soil/water) WATER Lab Sample ID: 40530.02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) __ Date Received: 10/02/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/04/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/08/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.2 Sulfur Cleanup: (Y/N) Y

UUK 12/10/99

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.26	
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050 ~~0.020~~	~~PJ~~ U
58-89-9	gamma-BHC (Lindane)	0.050	U J
76-44-8	Heptachlor	0.059	~~P~~ J
309-00-2	Aldrin	0.050	U J
1024-57-3	Heptachlor epoxide	0.050 ~~0.033~~	~~PJ~~ U
959-98-8	Endosulfan I	0.050 ~~0.013~~	~~PJ~~ U
60-57-1	Dieldrin	0.10 ~~0.055~~	~~PJ~~ U
72-55-9	4,4'-DDE	0.16	
72-20-8	Endrin	0.10	U J
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.15	~~P~~ J
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	2.6	~~P~~ J
11096-82-5	Aroclor-1260	1.0	U

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Attachment III

CSF Sheet

DG/ESAT 10-18-99. Standard Times 991008-0A MAE

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME SOUTHWEST LABORATORY OF OKLAHOMA
CITY/STATE BROKEN ARROW, OKLAHOMA

CASE NO. 27436 SDG NO. APF79 SDG NOS. TO FOLLOW _____
_____ _____ SAS NO. _____

CONTRACT NO. 68-D5-0026
SOW NO. OLM03.2

RECEIVED
OCT 18 1999
U.S. EPA

All documents delivered in the Complete SDG File must be original documents where possible.

Evidence Audit Photocopy

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
1. Inventory Sheet (Form DC-2) (Do not number)				
2. SDG Case Narrative	1	19	✓	✓
3. SDG Cover Sheet/Traffic Report	20	23	✓	✓
4. Volatiles Data				
a. QC Summary				
System Monitoring Compound Summary (Form II VOA)	NA	NA		NA
Matrix Spike/Matrix Spike Duplicate Summary (Form III VOA)				
Method Blank Summary (Form IV VOA)				
GC/MS Instrument Performance Check (Form V VOA)				
Internal Standard Area and RT Summary (Form VIII VOA)				
b. Sample Data				
TCL Results - (Form I VOA)				
Tentatively Identified Compounds (Form I VOA-TIC)				
Reconstructed total ion chromatograms (RIC) for each sample				
For each sample:				
Raw spectra and background-subtracted mass spectra of target compounds identified				
Quantitation reports				
Mass spectra of all reported TICs with three best library matches				
c. Standards Data (All Instruments)				
Initial Calibration Data (Form VI VOA)				
RICs and Quan Reports for all Standards				
Continuing Calibration Data (Form VII VOA)				
RICs and Quantitation Reports for all Standards				
d. Raw QC Data				
BFB				
Blank Data				
Matrix Spike/Matrix Spike Duplicate Data				

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. 27436 SDG NO. APF79 SDG NOS. TO FOLLOW _____
_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. Pesticides (Cont.)				
b. Sample Data	929	1192		
TCL Results - Organic Analysis Data Sheet (Form I PEST)			qa	✓
Chromatograms (Primary Column)				✓
Chromatograms from second GC column confirmation				✓
GC Integration report or data system printout				✓
Manual work sheets				✓
For pesticides/Aroclors confirmed by GC/MS, copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)				✓
c. Standards Data	1193	1410		
Initial Calibration of Single Component Analytes (Form VI PEST-1 and PEST-2)				✓
Initial Calibration of Multicomponent Analytes (Form VI PEST-3)				✓
Analyte Resolution Summary (Form VI PEST-4)				✓
Performance Evaluation Mixture (Form VI PEST-5)				✓
Individual Standard Mixture A (Form VI PEST-6)				✓
Individual Standard Mixture B (Form VI PEST-7)				✓
Calibration Verification Summary (Form VII PEST-1)				✓
Calibration Verification Summary (Form VII PEST-2)				✓
Analytical Sequence (Form VIII PEST)				✓
Florisil Cartridge Check (Form IX PEST-1)				✓
Pesticide GPC Calibration (Form IX PEST-2)				✓
Pesticide Identification Summary for Single Component Analytes (Form X PEST-1)				✓
Pesticide Identification Summary for Multicomponent Analytes (Form X PEST-2)				✓
Chromatograms and data system printouts A printout of retention times and corresponding peak areas or peak heights				✓
d. Raw QC Data				
Blank Data	1411	1439		✓
Matrix Spike/Matrix Spike Duplicate Data	1440	1456		✓

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. 27436 SDG NO. APF79 SDG NOS. TO FOLLOW _____
_____ _____ SAS NO. _____

11. Comments: _____

Completed by: (CLP Lab)	Emma Y. Morton (Signature)	Emma Morton Data Clerk (Printed Name/Title)	10/15/99 (Date)
Verified by: (CLP Lab)	Gaye Alexander (Signature)	Gaye Alexander Data Clerk (Printed Name/Title)	10-15-99 (Date)
Audited by: (EPA)	Lisa Kulyn Kromrtz (Signature)	Lisa Kulyn Kromrtz Data Validator (Printed Name/Title)	12/14/99 (Date)

M&E
AQUA ALLIANCE

MEMORANDUM

PROJECT NO:	J-020655-0002-005	**DATE:**	January 12, 2000
TO:	Standard Times Site File	**OFFICE:**	Wakefield
FROM:	S. Harvey	**COMPANY:**	Metcalf & Eddy
REVIEWED BY:	L. Cook		
CC:	B. Wyskowski, N. Thurber (memo only)		

SUBJECT: Limited QC Review/Modified Tier II-Like Review
Review of Metals and Cyanide Results
Sentinel, Inc., Huntsville, Alabama
RAS Case No. 27436; SDG No. MALQ02

On September 30, 1999, five aqueous samples were collected at the Standard Times BTSA site, located in New Bedford, Massachusetts by Metcalf & Eddy field personnel. The sampling was performed as part of the BTSA RAC WA# 043-SISIS-01ZZ. The samples were submitted to Sentinel, Inc. laboratory, located in Huntsville, Alabama for the analysis of low concentration metals and cyanide. All samples were received by the laboratory on October 1, 1999. The data package was received in the M&E Office on October 18, 1999. Included in Attachment I is a copy of the chain-of-custody (COC) record.

M&E reviewed the data in accordance with the EPA-approved Final Field Task Work Plan for the site and the guidance received from EPA Work Assignment Manager, James Byrne, in a September 17, 1999 letter to M&E Work Assignment Manager, Barb Wyskowski. The data review included:

*	•	Preservation and Technical Holding Times
*	•	Calibration Verification
	•	Blanks
	•	ICP Interference Check Sample
	•	Matrix Spike Recoveries
	•	Laboratory Duplicates
*	•	Field Duplicates
*	•	Laboratory Fortified Blank (LFB) and/or Laboratory Control Sample (LCS)
*	•	Furnace Atomic Absorption Results
	•	ICP Serial Dilution Results
*	•	Detection Limits
*	•	Sample Quantitation

*	=	All criteria met for this parameter.
NA	=	Not Applicable. No information was provided by the laboratory.

Included in Attachment II are the result summary sheets, annotated with the qualifiers detailed in this memorandum.

Blank Analysis Results

A review of laboratory blank analysis results indicate the presence of laboratory contamination for the elements listed below.

Element	Action Limit (ug/l)	Sample(s) Affected
Aluminum	210	MALQ02, MALQ04, MALQ06, MALQ07
Antimony	12.5	None
Arsenic	10.5	MALQ02, MALQ04, MALQ06
Barium	15.5	MALQ04, MALQ06
Beryllium	1.5	MALQ02, MALQ04, MALQ07
Lead	14.5	None
Mercury	-0.5	None
Magnesium	213	None
Potassium	81	None
Selenium	9.5	None
Silver	3.0	None
Cyanide	-12.2	Reject ND MALQ02, MALQ06 J positive MALQ04, MALQ07

Samples which have been listed as being affected for all indicated elements with the exception of cyanide had concentrations of the elements less than 5x the highest blank concentration for that element. The positive result in these samples for the elements indicated (with the exception of cyanide) have been reported as the samples' quantitation limit, and have been qualified as non-detect (U).

Due to the presence of negative cyanide blank contamination at a concentration that exceeded 2xIDL, positive cyanide results are estimated and non-detect cyanide results are rejected. Positive results may be biased low and non-detect results may be false negatives. Sample MALQ03 was not analyzed for cyanide.

ICP Interference Check Sample Results

Interferant	Element	Sample(s) Affected	Action
Calcium	Copper	MALQ02	Reject ND
Calcium	Silver	MALQ02	Estimate (UJ) ND
Calcium	Vanadium	MALQ02	Estimate (UJ) ND

The positive copper result in sample MALQ02 is rejected due to interference from calcium. It is not possible to determine if the positive copper result is due to the high concentration of calcium in this sample. The non-detect silver and vanadium results are estimated due to negative interference from calcium.

Matrix Spike

The following matrix spike recoveries did not meet acceptable criteria indicating possible matrix interference. Sample results may be biased low.

Element	%Recovery	Sample(s) Affected
Antimony	66.5%	All

%R 30-74%: Estimate positive and non-detect results (J and UJ, respectively).

Laboratory Duplicate Results

For laboratory duplicate samples MALQ02 and MALQ02D, poor laboratory precision is noted due to the large discrepancy in the cyanide results between the sample result and that of its duplicate. Furthermore, the cyanide result for this sample MALQ02 has been rejected due to negative blank contamination (the potential for a false negative result exists). There is uncertainty with the cyanide result for this sample MALQ02. It is recommended that another sample from this location be collected and resubmitted for analysis.

Element	Sample Result (ug/l)	Duplicate Sample Result (ug/l)
Cyanide	0.9U	13.7

Inductively Coupled Plasma (ICP) Serial Dilution Results

The following percent difference result did not meet acceptable criteria, indicating a suppression due to sample matrix has occurred and the reported sample results may be biased low.

Element	%D	Sample(s) Affected
Potassium	36.7%	All

%D>15%: Estimate positive and non-detect results (J and UJ, respectively).

Results will be qualified as indicated above.

Attachment I

Chains-of Custody

EPA United States Environmental Protection Agency Contract Laboratory Program

Inorganic Traffic Report & Chain of Custody Record
(For Inorganic CLP Analysis)

Case No. 27436

1. Project Code: 020655
Account Code: —
2. Region No.: I
Sampling Co.: M&E
4. Date Shipped: 10/1/99
Carrier: Fed EX

Regional Information: —
Sampler (Name): D Stamp
Airbill Number: 8138083927602

Non-Superfund Program: Brownfields
Sampler Signature: D Stamp
5. Ship To: Sentinel, Inc, 2805 Bob Wallace Ave, Suite L3, Huntsville, AL 35805
ATTN: Beverly Kilgore

Site Name: Brownfields Std Times
City, State: New Bedford MA
Site Spill ID:

3. Purpose*
Lead: [ ] SF [ ] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [X] SI [ ] ESI
Long-Term Action: [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD

6. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (specify in Column A)

7. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaOH
4. H_2SO_4
5. $K_2CR_2O_7$
6. Ice only
7. Other (specify in Column D)
N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 7) Other:	E – RAS Analysis: Diss. Metals	Total Metals	Cyanide	Low only: NO_2/NO_3	Fluoride	High only: pH	Conduct.	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank, S = Spike, D = Duplicate, R = Rinsate, PE = Perform. Eval., — = Not a QC Sample)
MALQ07	2	Lm	G	1/2,3		X	X					133942-943	FGW0201STF	9/30/99 1200	APG51	DS	
MALQ02	2	Lm	G	1/2,3		X	X					133946-947, 133950-951	FGW0401STF	9/30/99 1230	APG52	DS	MS-~~MSD~~ DS 9/30/99
MALQ04	2	Lm	G	1/2,3		X	X					133956 133957	FGW0801STF	9/30/99 1500	APG53	DS	
MALQ06	2	Lm	G	2,3		X	X					133960 133961	FGWK0201STF	9/30/99 1530	APG54	DS	Dupcat ~~APG~~ DS MALQ 04
MALQ03	2	Lm	G	2		X						133964	GW1001STF	9/30/99 1100	None	DS	
												Temperature Blanks					

Shipment for Case Complete? (Y/N): Y
Page 1 of 1
Sample(s) to be Used for Laboratory QC: Use MALQ02 for MS
Additional Sampler Signatures:
Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	10/1/99 1730				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

A21-012-13 REV.

DISTRIBUTION: Green - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to CLASS

EPA Form 9110-1

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

364311

Attachment II

Sample Result Summary Sheets

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MALQ02

Lab Name: SENTINEL INC. Contract: 68-D5-0169

Lab Code: SENTIN Case No.: 27436 SAS No.: SDG No.: MALQ02

Matrix (soil/water): WATER Lab Sample ID: 25287S

Level (low/med): LOW Date Received: 10/02/99

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

SM 1/10/00

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	98.4	~~B~~	U	P
7440-36-0	Antimony	2.2	UJ	N	P
7440-38-2	Arsenic	2.8	~~B~~	U	P
7440-39-3	Barium	756			P
7440-41-7	Beryllium	0.20	~~B~~	U	P
7440-43-9	Cadmium	2.4	~~B~~		P
7440-70-2	Calcium	508000			P
7440-47-3	Chromium	0.30	U		P
7440-48-4	Cobalt	0.60	U		P
7440-50-8	Copper	~~6.6~~	~~B~~	R	P
7439-89-6	Iron	2770		E	P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	312000			P
7439-96-5	Manganese	550			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	0.70	U		P
7440-09-7	Potassium	120000	J	E	P
7782-49-2	Selenium	1.8	U		P
7440-22-4	Silver	0.40	UJ		P
7440-23-5	Sodium	2310000			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	0.80	UJ		P
7440-66-6	Zinc	16.3	U		P
	Cyanide	~~0.90~~	~~U~~	R	CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MALQ03

Lab Name: SENTINEL INC. Contract: 68-D5-0169

Lab Code: SENTIN Case No.: 27436 SAS No.: SDG No.: MALQ02

Matrix (soil/water): WATER Lab Sample ID: 25288S

Level (low/med): LOW Date Received: 10/02/99

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

SA 1/10/00

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2530			P
7440-36-0	Antimony	352	J	~~N~~	P
7440-38-2	Arsenic	46.1			P
7440-39-3	Barium	2830			P
7440-41-7	Beryllium	47.3			P
7440-43-9	Cadmium	53.0			P
7440-70-2	Calcium	494000			P
7440-47-3	Chromium	196			P
7440-48-4	Cobalt	505			P
7440-50-8	Copper	293			P
7439-89-6	Iron	3650		~~E~~	P
7439-92-1	Lead	18.6			P
7439-95-4	Magnesium	304000			P
7439-96-5	Manganese	1030			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	522			P
7440-09-7	Potassium	117000	J	~~E~~	P
7782-49-2	Selenium	9.8			P
7440-22-4	Silver	58.8			P
7440-23-5	Sodium	2220000			P
7440-28-0	Thallium	50.1			P
7440-62-2	Vanadium	503			P
7440-66-6	Zinc	480			P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MALQ04

Lab Name: SENTINEL INC. Contract: 68-D5-0169

Lab Code: SENTIN Case No.: 27436 SAS No.: SDG No.: MALQ02

Matrix (soil/water): WATER Lab Sample ID: 25289S

Level (low/med): LOW Date Received: 10/02/99

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

SU 11.10.00

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	51.4	~~B~~ U		P
7440-36-0	Antimony	2.2	U J ~~B~~		P
7440-38-2	Arsenic	3.8	~~B~~ U		P
7440-39-3	Barium	10.4	~~B~~ U		P
7440-41-7	Beryllium	0.10	~~B~~ U		P
7440-43-9	Cadmium	0.40	U		P
7440-70-2	Calcium	88700			P
7440-47-3	Chromium	0.30	U		P
7440-48-4	Cobalt	0.80	~~B~~		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	1410		~~E~~	P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	22100			P
7439-96-5	Manganese	940			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.4	~~B~~ J		P
7440-09-7	Potassium	18100	J	~~E~~	P
7782-49-2	Selenium	1.8	U		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	63200			P
7440-28-0	Thallium	2.3	~~B~~		P
7440-62-2	Vanadium	0.80	U		P
7440-66-6	Zinc	16.3	U		P
	Cyanide	0.93	~~B~~ J	*	CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MALQ06

Lab Name: SENTINEL INC. Contract: 68-D5-0169

Lab Code: SENTIN Case No.: 27436 SAS No.: SDG No.: MALQ02

Matrix (soil/water): WATER Lab Sample ID: 25290S

Level (low/med): LOW Date Received: 10/02/99

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	46.3	~~J~~	U	P
7440-36-0	Antimony	2.2	U	J X	P
7440-38-2	Arsenic	2.9	~~J~~	U	P
7440-39-3	Barium	9.3	~~J~~	U	P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.40	U		P
7440-70-2	Calcium	86500			P
7440-47-3	Chromium	0.30	U		P
7440-48-4	Cobalt	0.70	~~J~~		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	1450		~~J~~	P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	20800			P
7439-96-5	Manganese	878			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.4	~~J~~	J	P
7440-09-7	Potassium	16700	J	~~E~~	P
7782-49-2	Selenium	1.8	U		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	58700			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	0.80	U		P
7440-66-6	Zinc	16.3	U		P
	Cyanide	~~0.90~~	~~U~~	R*	CA

SH 1/10/00

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MALQ07

Lab Name: SENTINEL INC. Contract: 68-D5-0169

Lab Code: SENTIN Case No.: 27436 SAS No.: SDG No.: MALQ02

Matrix (soil/water): WATER Lab Sample ID: 25291S

Level (low/med): LOW Date Received: 10/02/99

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	66.7	~~B~~ U		P
7440-36-0	Antimony	2.2	U J	~~N~~	P
7440-38-2	Arsenic	2.1	U		P
7440-39-3	Barium	40.4	~~B~~		P
7440-41-7	Beryllium	0.10	~~B~~ U		P
7440-43-9	Cadmium	0.40	U		P
7440-70-2	Calcium	56000			P
7440-47-3	Chromium	0.70	~~B~~		P
7440-48-4	Cobalt	0.60	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	6650		~~E~~	P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	8650			P
7439-96-5	Manganese	373			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	0.80	~~B~~ J		P
7440-09-7	Potassium	6360	J	~~E~~	P
7782-49-2	Selenium	1.8	U		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	8940			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	0.90	~~B~~		P
7440-66-6	Zinc	16.3	U		P
	Cyanide	11.1	J	*	CA

SM 1/10/00

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Attachment III

CSF Sheet

Standard Times Reg. I
9910008-I4
M+E

DG/ESAT
10-13-99

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME Sentinel Inc
CITY/STATE Huntsville AL

CASE NO. 27436 SDG NO. ~~MALQ02~~ 10/8/99 MALQ02
SDG NOS. TO FOLLOW
SAS NO.

CONTRACT NO. 68-D5-0169
SOW NO. ILM04

RECEIVED OCT 12

All documents delivered in the Complete SDG File must be original documents where possible. (Reference Exhibit B, Section II F and Section III J.)

		Page Nos. From	Page Nos. To	(Please Check:) Lab	(Please Check:) Region
1.	Inventory Sheet (DC-1) (Do not number)			✓	SH 12/3/99
2.	Cover Page	1	1	✓	SH 12/3/99
3.	Inorganic Analysis Data Sheet (Form I-IN)	2	6	✓	SH 12/3/99
4.	Initial & Continuing Calibration Verification (Form IIA-IN)	7	10	✓	SH 12/3/99
5.	CRDL Standards for AA and ICP (Form IIB-IN)	11	11	✓	SH 12/3/99
6.	Blanks (Form III-IN)	12	13	✓	SH 12/3/99
7.	ICP Interference Check Sample (Form IV-IN)	14	15	✓	SH 12/3/99
8.	Spike Sample Recovery (Form VA-IN)	16	16	✓	SH 12/3/99
9.	Post Digest Spike Sample Recovery (Form VB-IN)	17	17	✓	SH 12/3/99
10.	Duplicates (Form VI-IN)	18	18	✓	SH 12/3/99
11.	Laboratory Control Sample (Form VII-IN)	19	19	✓	SH 12/3/99
12.	Standard Addition Results (Form VIII-IN)	—	—	—	—
13.	ICP Serial Dilutions (Form IX-IN)	20	20	✓	SH 12/3/99
14.	Instrument Detection Limits (Form X-IN)	21	23	✓	SH 12/3/99
15.	ICP Interelement Correction Factors (Form XIA-IN)	24	24	✓	SH 12/3/99
16.	ICP Interelement Correction Factors (Form XIB-IN)	25	26	✓	SH 12/3/99
17.	ICP Linear Ranges (Form XII-IN)	27	27	✓	SH 12/3/99
18.	Preparation Log (Form XIII-IN)	28	30	✓	SH 12/3/99
19.	Analysis Run Log (Form XIV-IN)	31	34	✓	SH 12/3/99
20.	ICP Raw Data	35	120	✓	SH 12/3/99
21.	Furnace AA Raw Data	—	—	—	—
22.	Mercury Raw Data	121	123	✓	SH 12/3/99
23.	Cyanide Raw Data	124	128	✓	SH 12/3/99
24.	Preparation Logs Raw Data	129	132	✓	SH 12/3/99
25.	Percent Solids Determination Log	—	—	—	—

ILM04.0

FORM DC-2-1

	Page Nos. From	Page Nos. To	(Please Check:) Lab	(Please Check:) Region
26. Traffic Report/COC	133	133	✓	SH 12/3/99
EPA Shipping/Receiving Documents	—	—		
Airbill (No. of Shipments 1)	134	134	✓	SH 12/3/99
Chain-of-Custody Records/Seals	135	135	✓	SH 12/3/99
Sample Tags	136	139	✓	SH 12/3/99
Sample Log-in Sheet (Lab & DCI)	140	142	✓	SH 12/3/99
SDG Cover Sheet	143	143	✓	SH 12/3/99
28. Misc. Shipping/Receiving Records (list all individual records)				
Telephone Logs	—	—		
	—	—		
29. Internal Lab Sample Transfer Records & Tracking Sheets (describe or list)	—	—		
SDG Tracking	144	144	✓	SH 12/3/99
	—	—		
30. Internal Original Sample Prep & Analysis Records (describe or list)				
Prep Records	145	150	✓	SH 12/3/99
Analysis Records	151	156	✓	SH 12/3/99
Description	—	—		
31. Other Records (describe or list)				
Telephone Communications Log	—	—		
	157	159	✓	SH 12/3/99
	—	—		

32. Comments:

Completed by (CLP Lab):

Laurie Harden (Signature) — Laurie Harden, Asst. Doc. Control (Print Name & Title) — 10/8/99 (Date)

Audited by (EPA):

Sheila Harvey (Signature) — Sheila Harvey Chemist (Print Name & Title) — 12/3/99 (Date)

Region I
Data Review Worksheet

Site Name: Standard Times
Reference Number: _____

REGION I REVIEW OF INORGANIC
CONTRACT LABORATORY DATA PACKAGE

The hardcopied (laboratory name) Sentinel, Inc data package received at Region I has been reviewed and the quality assurance and performance data summarized. The data review included:

Case No.	27436	SAS No.		Sampling Date (s)	9/30/99
SDG No.	MALQ02	Matrix	Aqueous	Shipping Date (s)	10/1/99
No. of Samples	5			Date(s) rec'd by lab	10/2/99

Traffic Report Numbers: MALQ02, MALQ03, MALQ04, MALQ06, MALQ07

Trip Blank No.: _____
Equipment Blank Number: _____
Field Duplicate Numbers: MALQ04 / MALQ06

SOW No. ILM04.0 requires that specific analytical work be done and that associated reports be provided by the laboratory to the Regions, EMSL-LV, and SMO. The general criteria used to determine the performance were based on an examination of:

- ✓ -Data Completeness
- ✓ -Holding Times
- ✓ -Calibrations
- -Blanks
- -ICP Interference Check Results
- -Matrix Spike Recoveries
- -Laboratory Duplicates
- ✓ -Field Duplicates
- ✓ -Lab Control Sample Results
- ✓ -Furnace AA results
- -ICP Serial Dilution Results
- ✓ -Detection Limit Results
- ✓ -Sample Quantitation

Overall Comments: _____

Definitions and Qualifiers:

A - Acceptable data
J - Approximate data due to quality control criteria
R - Reject data due to quality control criteria
U - Analyte not detected

Reviewer: Sheila Harvey Date: 12/3/99

Region I
Inorganic Data Review Worksheets

IV A. BLANK ANALYSIS RESULTS (Sections 1-3)

List the blank contamination in sections 1 and 2 below. A separate worksheet should be used for soil and water blanks.

1. **Laboratory Blanks** Matrix: Aqueous

DATE:	ICB/CCB#	PREP BL	ANALYTE	CONC. UNITS
			Sb	2.5 ug/l
			As	2.1
			Ba	1.6
			Be	0.3
			Pb	2.9
			Hg	-0.1
			K	16.2
			Se	1.9
			Ag	0.6

2. Equipment/Trip Blanks

DATE:	EQUIP BL #	ANALYTE	CONC. UNITS

3. **Frequency Requirements**

A. Was a preparation blank analyzed for each matrix, for every 20 samples, and for each digestion batch? Yes or No

B. Was a calibration blank run at the beginning of the run, and every 10 samples or every 2 hours whichever is more frequent? Yes or No

If no, the data may be affected. Use professional judgment to determine the severity of the effect and qualify the data accordingly. Discuss any actions below, and list the samples affected:

Region :
Inorganic Data Review Worksheets

IV A. BLANK ANALYSIS RESULTS (Sections 1-3)

List the blank contamination in sections 1 and 2 below. A separate worksheet should be used for soil and water blanks.

1. Laboratory Blanks — Matrix: Aqueous

DATE	ICB/CCB=	PREP BL	ANALYTE	CONC/UNITS
			Al	43.6 ug/l
			Ba	~~1.0~~ 2.2, 2.4, 3.1
			Be	0.1, 0.1, 0.2
			Mg	42.6
			Pb	-0.1, -0.1
			Cd	-2.4, -2.4

2. Equipment/Trip Blanks

DATE	EQUIP BL =	ANALYTE	CONC/UNITS

3. Frequency Requirements

A. Was a preparation blank analyzed for each matrix, for every 20 samples, and for each digestion batch? Yes or No

B. Was a calibration blank run at the beginning of the run, and every 10 samples or every 2 hours whichever is more frequent? Yes or No

If no, the data may be affected. Use professional judgment to determine the severity of the effect and qualify the data accordingly. Discuss any actions below, and list the samples affected:

Region :
Inorganic Data Review Worksheets

IV A. BLANK ANALYSIS RESULTS Sections 1-3)

List the blank contamination in sections 1 and 2 below. A separate worksheet should be used for soil and water blanks.

1. Laboratory Blanks Matrix: aqueous

DATE	ICB/CCB=	PREP BL	ANALYTE	CONC UNITS
			CN	-2.436 ug/l

2. Equipment Trip Blanks

DATE	EQUIP BL =	ANALYTE	CONC UNITS

3. **Frequency Requirements**

A. Was a preparation blank analyzed for each matrix, for every 20 samples, and for each digestion batch? Yes or No

B. Was a calibration blank run at the beginning of the run, and every 10 samples or every 2 hours whichever is more frequent? Yes or No

If no, the data may be affected. Use professional judgment to determine the severity of the effect and qualify the data accordingly. Discuss any actions below, and list the samples affected:

_____

_____

_____

Region I
Inorganic Data Review Worksheets

IV B. BLANK ANALYSIS RESULTS (Section 4)

4. Blank Actions

The Action Level for any analyte is equal to 5X the highest concentration of that analyte found in any blank. (Use 5X the absolute value for any negative blank results). The Action Level for samples which have been concentrated or diluted should be multiplied by the concentration/dilution factor. No positive result should be reported unless the concentration of the analyte in the sample exceeds the Action Level (AL) for that analyte. Specific actions are as follows:

1. When the concentration is greater than the IDL, but less than the Action Level, report the sample concentration detected with a U.

2. When the sample concentration is greater than the Action Level, report the sample concentration unqualified.

Matrix: aqueous

ELEMENT	MAX. CONC. UNITS	AL UNITS ug/l
Al	43.6	210
Sb	2.5	12.5
As	2.1	10.5
Ba	3.1	15.5
Be	0.3	1.5
Pb	2.9	14.5
Hg	-0.1	-0.5
Mg	42.6	213
K	16.2	81.0
Se	1.9	9.5
Ag	0.6	3.0
Cd	-2.436	-12.18

Matrix: _____

ELEMENT	MAX. CONC. UNITS	AL UNIT

NOTE: Blanks analyzed during a soil case must be converted to mg/kg in order to compare them with the sample results.

$$\text{conc. in ug/l} \times \frac{\text{Volume diluted to (200ml)}}{\text{Weight digested (1gram)}} \times \frac{1\text{L}}{1000\text{ml}} \times \frac{1000\text{g}}{1\text{kg}} \times \frac{1\text{mg}}{1000\text{ug}} = \text{mg/kg}$$

Multiplying this result by 5 to arrive at the Action Level gives a final result in mg/kg which can then be compared to sample results

Region I
Inorganic Data Review Worksheets

V B. ICP INTERFERENCE CHECK SAMPLE (Section 3)

3. Report the concentration of any elements detected in the ICS A solution > 2X IDL that should not be present.

ELEMENT	CONC. DETECTED IN THE ICS			CONC. OF INTERFERENTS IN THE ICS			
		02	03	AL	CA	FE	MG
Ba	3	NA	NA	500,000	500,000	180,000	500,000
Cr	40	NA	NA				
Cu	23	~~NA~~ R	NA				
Co	7	NA	NA				
Mn	45	NA	NA				
Ni	16	NA	NA				
Ag	-4	UJ	NA				
Vn	-6	UJ	NA				

Estimate the concentration produced by the interfering element in all affected samples. See the guidelines for examples. List the samples affected by the interferences below:

SAMPLE AFFECTED	ELEMENT AFFECTED	SAMPLE CONC. (µg/L)	SAMPLE INTERFERENT CONC. (µg/L)				ESTIMATED INTERF. (µg/L)
			AL	CA	FE	MG	

ACTIONS:

1. In general, the sample data can be accepted without qualification if the sample concentrations of Al, Ca, Fe, and Mg are less than 50% of their respective levels in the ICS solution.
2. Estimate (J) positive results for affected elements for samples with levels of interferents 50% or more of that in the ICS solution.
3. Reject (R) positive results if the reported concentration is due entirely to the interfering element.
4. Estimate (UJ) non-detected results for which false negatives are suspect.

Give an explanation for any actions taken below:

Region I
Inorganic Data Review Worksheets

VI. MATRIX SPIKE

TR # MALQ02 Matrix: Aqueous

1. Recovery Criteria

List the percent recoveries for analytes which did not meet the required criteria.

S - amount of spike added
SSR - spiked sample result
SR - sample result

ANALYTE	SSR	SR	S	%R	ACTION
Sb	332.6	2.2U	500	66.5	J(+) UJ(ND)

Matrix Spike Actions apply to all samples of the same matrix.

ACTIONS:

1. If the sample concentration exceed the spike concentration by a factor of 4 or more, no action is taken.
2. If any analyte does not meet the %R criteria, follow the actions stated below:

	PERCENT RECOVERY		
	< 30%	30%-74%	>125%
Positive Sample Results	J	J	J
Non-detected Results	R	UJ	A

2. Frequency Criteria

A. Was a matrix spike prepared at the required frequency? Yes or No
B. Was a post digestion spike analyzed for elements that did not meet the required criteria for matrix spike recovery? Yes or No

A separate worksheet should be filled out for each matrix spike pair.

Region I
Inorganic Data Review Worksheets

VII. LABORATORY DUPLICATES

List the concentrations of any analyte not meeting the criteria for duplicate precision. For soil duplicates, calculate the CRDL in mg/kg using the sample weight, volume and percent solids data for the sample. Indicate what criteria was used to evaluate precision by circling either the RPD or CRDL for each element.

Matrix: Aqueous

ELEMENT	CRDL WATER ug/L	CRDL SOIL mg/kg	SAMPLE # MAL002	DUPLICATE # MAL002D	RPD	ACTION
Aluminum	200					
Antimony	60					
Arsenic	10					
Barium	200					
Beryllium	5					
Cadmium	5					
Calcium	5000					
Chromium	10					
Cobalt	50					
Copper	25					
Iron	100					
Lead	5					
Magnesium	5000					
Manganese	15					
Mercury	0.2					
Nickel	40					
Potassium	5000					
Selenium	5					
Silver	10					
Sodium	5000					
Thallium	10					
Vanadium	50					
Zinc	20					
Cyanide	10		0.9 U	13.6978	NC	J(+)

Laboratory duplicate actions should be applied to all other samples of the same matrix type.

ACTION:

1. Estimate (J) positive results for elements which have an RPD > 20% for waters and > 35% for soils.
2. If sample results are less than 5X the CRDL, estimate (J) positive results for elements whose absolute difference is > CRDL (2X CRDL for soils). If both samples are non-detected, the RPD is not calculated (NC).

XI. INDUCTIVELY COUPLED PLASMA (ICP) SERIAL DILUTION ANALYSIS

_____ Serial dilutions were performed for each matrix and results of the diluted sample analysis agreed within ± 10% of the original undiluted analysis.

_____ Serial dilution was not performed for the following:

_____

✓ Serial dilutions were performed, but analytical results did not agree within ± 10% for analyte concentrations greater than 50X the IDL before dilution.

Report all results below that do not meet the required laboratory criteria for ICP serial dilution analysis.

Matrix:

ELEMENT	IDL	50X IDL	SAMPLE RESULT	SERIAL DILUTION	% D	ACTION
Aluminum						
Antimony						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Nickel						
Potassium		440	120300.2	76207.5	36.7	J(+)/UJ(ND)
Silver						
Sodium						
Vanadium						
Zinc						

Actions apply to all samples of the same matrix

ACTIONS:

1. Estimate (J) all positive results and (UJ) all nondetects if the % D > 15%.

MEMORANDUM

To: Standard Times Brownsfields Site Assessment File (J-020655-0002-005)

From: S. Harvey, Metcalf & Eddy (M&E) SH

Rev'd By: C. Lapite CL

Subject: Review of Analytical Results
RAS Case No. 27436; SDG No. MALP88

cc: B. Wyskowski
N. Thurber (memo only)

Date: December 15, 1999

On 28 September 1999 12 soil samples were collected at the Standard Times site, located in New Bedford, Massachusetts by Metcalf & Eddy field personnel. The sampling was performed as part of a Brownsfields Site Assessment. The samples were submitted to Sentinel, Inc. laboratory, located in Huntsville, Alabama for the analysis of low concentration metals and cyanide. All samples were received by the laboratory on 1 October 1999. The data package was received in the M&E Office on 14 November 1999. Included in Attachment I is a copy of the chain-of-custody (COC) record.

M&E reviewed the data in accordance with guidance received from EPA Work Assignment Manager, James Chow, in a September 17, 1999 letter to M&E Work Assignment Manager, Barb Wyskowski. The data review included:

*	•	Preservation and Technical Holding Times
	•	Initial and Continuing Calibration
	•	Blanks
*	•	Surrogate Compounds
	•	Matrix Spike (MS)/Matrix Spike Duplicates (MSD)
*	•	Laboratory Duplicates
*	•	Field Duplicates
*	•	Laboratory Fortified Blank (LFB) and/or Laboratory Control Sample (LCS)

*	=	All criteria met for this parameter.
NA	=	Not Applicable. No information was provided by the laboratory.

Included in Attachment II are the result summary sheets, annotated with the qualifiers detailed in this memorandum.

CRDL Recovery

The 2XCRDL calibration standard for ICP did not meet the acceptable criteria indicating that results close to the CRDL are questionable. A bias in the quantitation could not be determined.

Analyte	Percent Recovery	Samples Affected
Mercury	60%	All
Lead	125.7%; 127%	All

%R<80%: J (+) results and UJ (ND)
%R>120%: J (+)

Blank Analysis Results

A review of laboratory blank analysis results indicate the presence of laboratory contamination for the compounds listed below.

Element	Sample(s) Affected
Beryllium	MALP88-90, MALP92-99
Cadmium	MALP91
Selenium	MALP89, MALP90, MALP92-97, MALP99
Silver	MALP88, MALP89, MALP91-98
Mercury	MALP90, MALP93-95
Cyanide	MALP90-93, MALP97

Samples which have been listed as being affected had concentrations of the elements less than 5x the highest blank concentration for that element. The positive result in these samples for the elements indicated have been reported as the samples' quantitation limit, and have been qualified as non-detect (U).

Matrix Spike

The following matrix spike recoveries did not meet acceptable criteria indicating possible matrix interferance. Sample results may be biased low.

Analyte	%Recovery	Sample(s) Affected
Antimony	41.2%	All
Lead	70.1%	All

%R 30-74%: J (+), UJ (ND)

Results will be qualified as indicated above.

EPA United States Environmental Protection Agency
Contract Laboratory Program

Inorganic Traffic Report & Chain of Custody Record
(For Inorganic CLP Analysis)

Case No.: 27436

1. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (specify in Column A)

2. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaOH 4. H_2SO_4 5. $K_2CR_2O_7$ 6. Ice only 7. Other (specify in Column D) N. Not preserved

2. Region No.: I
Sampling Co.: Metcalf & Eddy
4. Date Shipped: 9/30/99
Carrier: FedEx
6. Date Received -- Received by: 10/1/99 AB Hossett
Sampler (Name): Derek St Onge
Airbill Number: 813808 397525
Laboratory Contract Number: 68-DS-0169
Unit Price: 85.00
Sampler Signature: DSt Onge
5. Ship To: Sentrol, Inc. (256) 534-1800, 2800 Bob Wallace Ave, Suite E3, Huntsville, AL 35805, ATTN: Beverly Kilgore
7. Transfer to:
Date Received
Received by
Contract Number
Price

3. Purpose*: Lead: SF, PRP, ST, FED. Early Action: CLEM, PA, REM, RI, SI, ESI. Long-Term Action: FS, RD, RA, O&M, NPLD

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc. Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 2) Other:	E – RAS Analysis: Diss. Metals	Total Metals	Cyanide	Low only: NO_2/NO_3	Fluoride	High only: pH	Conduct.	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
MALP88	5	L/m	G	6		X	X					133901	SS020ISTF	9/28/99 1015	APF79	DS			
MALP89	5	L/m	G	6		X	X					133906	SS030ISTF	9/28/99 1520	APF80	DS			
MALP90	5	L/m	G	6		X	X					133909	SS040ISTF	9/28/99 1450	APF81	DS			
MALP91	5	L/m	G	6		X	X					133912	SS040ISTF	9/28/99 1400	APF82	DS			
MALP92	5	L/m	G	6		X	X					133915	SS050ISTF	9/28/99 1255	APF83	DS			
MALP93	5	L/m	G	6		X	X					133918	SS050ISTF	9/28/99 1340	APF84	DS			
MALP94	5	L/m	G	6		X	X					133921	SS060ISTF	9/28/99 1245	APF85	DS			
MALP95	5	L/m	G	6		X	X					133924	SS070ISTF	9/28/99 0220	APF86	DS			
MALP96	5	L/m	G	6		X	X					133927	SS080ISTF	9/28/99 1200	APF87	DS			
MALP97	5	L/m	G	6		X	X					133930	SS090ISTF	9/28/99 1130	APF88	DS			

Shipment for Case Complete? (Y/N): N
Page 1 of 2
Sample(s) to be Used for Laboratory QC: use MALP99 for MS
Additional Sampler Signatures: Constance Kapile
Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	9/30/99 1900				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	Is custody seal intact? (Y)/N/none
		Amanda B Hossett	10/1/99 0914		

A21-012-14 REV.

DISTRIBUTION: Green - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-1

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

364301

EPA United States Environmental Protection Agency
Contract Laboratory Program

Inorganic Traffic Report & Chain of Custody Record
(For Inorganic CLP Analyis)

Case No.: 27436

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaOH
4. H_2SO_4
5. $K_2CR_2O_7$
6. Ice only
7. Other (specify in Column D)
N. Not preserved

2. Region No.: I
Sampling Co.: Metcalf & Eddy
4. Date Shipped: 9/30/99
Carrier: Fed Ex
6. Date Received -- Received by: 10/1/99 ABGossett
Sampler (Name): Derek Gomez
Airbill Number: 8138083975265
Laboratory Contract Number: 68-D5-0169
Unit Price: 85.00
Sampler Signature: DG Mc
5. Ship To: Sentinel Inc (256)534-9800
2800 Bob Wallace AVE
Suite L3
Huntsville AL 35805
ATTN: Beverly Kilgore
7. Transfer to:
Date Received
Received by
Contract Number
Price

3. Purpose*
Lead: SF, PRP, ST, FED
Early Action: CLEM, PA, REM, RI, SI (✓), ESI
Long-Term Action: FS, RD, RA, O&M, NPLD

CLP Sample Numbers (from labels)	A Matrix (from Box 1) / Other:	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) / Other:	E – RAS Analysis: Diss. Metals	Total Metals	Cyanide	Low only: NO_2/NO_3	Fluoride	High only: pH	Conduct.	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
MALP98	5	Lm	G	6		X	X					133931	SS1090 1STF	9/28/99	APE89	DS			
MALP99	5	Lm	G	6		X	X					133940 133941	SS1001STF	9/28/99	APF90	DS			
												Cooler Temperature Blank							

Shipment for Case Complete? (Y/N): N
Page 2 of 2
Sample(s) to be Used for Laboratory QC: use MALP99 for MS
Additional Sampler Signatures: Constance Lapete
Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Constance Lapete	9/30/99 1900				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	
		Amanda B Gossett	10/1/99 0914		

A21-012-14 REV.

DISTRIBUTION: Green - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-1

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

364302

Region I
Data Review Worksheet

Site Name: Standard Times
Reference Number: _____

REGION I REVIEW OF INORGANIC CONTRACT LABORATORY DATA PACKAGE

The hardcopied (laboratory name) Sentinel, Inc data package received at Region I has been reviewed and the quality assurance and performance data summarized. The data review included:

Case No.	27436	SAS No.	—	Sampling Date (s)	9/28/99
SDG No.	MALP88	Matrix	Soil	Shipping Date (s)	9/30/99
No. of Samples	12			Date(s) rec'd by lab	10/1/99

Traffic Report Numbers: MALP88, MALP89, MALP90, MALP91, MALP92, MALP93, MALP94, MALP95, MALP96, MALP97, MALP98, MALP99

Trip Blank No.: _____
Equipment Blank Number: _____
Field Duplicate Numbers: MALP97/MALP98

SOW No. ILM04 requires that specific analytical work be done and that associated reports be provided by the laboratory to the Regions, EMSL-LV, and SMO. The general criteria used to determine the performance were based on an examination of:

- -Data Completeness
- -Holding Times
- -Calibrations
- -Blanks
- -ICP Interference Check Results
- -Matrix Spike Recoveries
- -Laboratory Duplicates
- -Field Duplicates
- -Lab Control Sample Results
- -Furnace AA results
- -ICP Serial Dilution Results
- -Detection Limit Results
- -Sample Quantitation

Overall Comments: _____

Definitions and Qualifiers:

A - Acceptable data
J - Approximate data due to quality control criteria
R - Reject data due to quality control criteria
U - Analyte not detected

Reviewer: Sheila Harvey Date: 11/30/99

Region I
Inorganic Data Review Worksheets

II. HOLDING TIMES

Complete table for all samples and circle the analysis date for samples not within criteria.

SAMPLE ID	DATE SAMPLED	~~HG~~ CN ANALYSIS DATE	~~CYANIDE~~ Hg ANALYSIS DATE	OTHERS ANALYSIS DATE	pH	ACTION
MALP88	9/28/99	10/8/99	10/6/99	10/6/99		
89						
90						
91						
92						
93						
94						
95						
96						
97						
98						
99				10/6 + 10/8/99		

METALS 180 DAYS FROM SAMPLE COLLECTION
MERCURY 28 DAYS FROM SAMPLE COLLECTION
CYANIDE 14 DAYS FROM SAMPLE COLLECTION

ACTION: all criteria met

1. If holding times are exceeded, and/or pH is >2 for metals and mercury or < 12 for cyanide, all positive results are estimated (J) and all non-detects are estimated (UJ).
2. If holding times are grossly exceeded, the reviewer may determine that non-detects are unusable (R).

Region I
Inorganic Data Review Worksheets

III A. Instrument Calibration (Section I continued)

CRDL Recovery Criteria (Custom Worksheet)

Matrix:

Please list below all analytes not meeting percent criteria in the CRDL standard.

Analyte	Percent Recovery (%)	Actions/Samples Affected
Mercury	40%	J(+) UJ (ND)
Lead	125.7%, 127.5%	J(+)

Actions:

1. If %R < 80%, J (+) results. UJ (ND)
2. If %R > 120%, J (+) only
3. J (+) and (UJ) ND samples < 3xCRDL
4. No actions for those samples > 3xCRDL

Region I
Inorganic Data Review Worksheets

IV A. BLANK ANALYSIS RESULTS (Sections 1-3)

List the blank contamination in sections 1 and 2 below. A separate worksheet should be used for soil and water blanks.

1. **Laboratory Blanks** Matrix: ~~Soil~~ Soil (SW)

DATE:	ICB/CCB#	PREP BL	ANALYTE	CONC. UNITS
C	B		Ba	1.1 ug/l
			Be	0.2 ug/l
			Cd	0.4 ug/l
			Cr	0.4 ug/l
			Co	0.6 ug/l
			Pb	2.2 ug/l
			K	5.6 ug/l
			Se	2.0 ug/l
			Ag	0.4 ug/l
			Pb	1.2 ug/l

2. Equipment/Trip Blanks

DATE:	EQUIP BL #	ANALYTE	CONC. UNITS

3. **Frequency Requirements**

A. Was a preparation blank analyzed for each matrix, for every 20 samples, and for each digestion batch? **Yes or No**

B. Was a calibration blank run at the beginning of the run, and every 10 samples or every 2 hours whichever is more frequent? **Yes or No**

If no, the data may be affected. Use professional judgment to determine the severity of the effect and qualify the data accordingly. Discuss any actions below, and list the samples affected:

_____
_____
_____

Region I
Inorganic Data Review Worksheets

IV A. BLANK ANALYSIS RESULTS (Sections 1-3)

List the blank contamination in sections 1 and 2 below. A separate worksheet should be used for soil and water blanks.

1. Laboratory Blanks Matrix: Soil

DATE	ICB/CCB	PREP BL	ANALYTE	CONC UNITS
	2.1, 2.2, 2.0		Ba	
		0.1	Be	
	0.6	0.3	Cr	
	-0.1, -0.1, -0.1		Hg	
	0.9		Ni	
	10.0 9.0 8.8		K	
	2.0		Se	
	0.7 ~~0.4~~ 0.4		Ag	
	0.8		Na	
	-1.1 -1.7 -1.6		Cd	

2. Equipment Trip Blanks

DATE	EQUIP BL =	ANALYTE	CONC UNITS

3. Frequency Requirements

A. Was a preparation blank analyzed for each matrix, for every 20 samples, and for each digestion batch? Yes or No

B. Was a calibration blank run at the beginning of the run, and every 10 samples or every 2 hours whichever is more frequent? Yes or No

If no, the data may be affected. Use professional judgment to determine the severity of the effect and qualify the data accordingly. Discuss any actions below, and list the samples affected:

Region I
Inorganic Data Review Worksheets

IV A. BLANK ANALYSIS RESULTS (Sections 1-3)

List the blank contamination in sections 1 and 2 below. A separate worksheet should be used for soil and water blanks.

1. **Laboratory Blanks** Matrix: Soil

DATE	ICB/CCB#	PREP BL	ANALYTE	CONC UNITS
			Al	48.7 ug/l
			Ba	2.6
			Be	0.1
			Cr	0.3
			Co	0.7
			Mg	52.4
			K	9.6
			Se	2.0
			Ag	0.5
			Va	0.9

2. Equipment Trip Blanks

DATE	EQUIP BL =	ANALYTE	CONC UNITS

3. **Frequency Requirements**

A. Was a preparation blank analyzed for each matrix, for every 20 samples, and for each digestion batch? Yes or No

B. Was a calibration blank run at the beginning of the run, and every 10 samples or every 2 hours whichever is more frequent? Yes or No

If no, the data may be affected. Use professional judgment to determine the severity of the effect and qualify the data accordingly. Discuss any actions below, and list the samples affected:

Region I
Inorganic Data Review Worksheets

IV A. BLANK ANALYSIS RESULTS (Sections 1-3)

List the blank contamination in sections 1 and 2 below. A separate worksheet should be used for soil and water blanks.

1. **Laboratory Blanks** Matrix: Soil

DATE	ICB/CCB=	PREP BL mg/kg	ANALYTE	CONC UNITS
			Ag	0.08
			Cd	-0.131

2. Equipment Trip Blanks

DATE	EQUIP BL =	ANALYTE	CONC UNITS

3. **Frequency Requirements**

A. Was a preparation blank analyzed for each matrix, for every 20 samples, and for each digestion batch? Yes or No

B. Was a calibration blank run at the beginning of the run, and every 10 samples or every 2 hours whichever is more frequent? Yes or No

If no, the data may be affected. Use professional judgment to determine the severity of the effect and qualify the data accordingly. Discuss any actions below, and list the samples affected:

_____
_____
_____

Region I
Inorganic Data Review Worksheets

IV B. BLANK ANALYSIS RESULTS (Section 4)

4. Blank Actions

The Action Level for any analyte is equal to 5X the highest concentration of that analyte found in any blank. (Use 5X the absolute value for any negative blank results). The Action Level for samples which have been concentrated or diluted should be multiplied by the concentration/dilution factor. No positive result should be reported unless the concentration of the analyte in the sample exceeds the Action Level (AL) for that analyte. Specific actions are as follows:

1. When the concentration is greater than the IDL, but less than the Action Level, report the sample concentration detected with a U

2. When the sample concentration is greater than the Action Level, report the sample concentration unqualified.

Matrix: Soil

ELEMENT	MAX. CONC. UNITS	AL UNITS
Ba	2.6 ug/l	13.0 ug/l
Be	0.2 ug/l	1.0 ug/l
Cd	0.4 ug/l	2.0 ug/l
Cr	0.6 ug/l	3.0 ug/l
Co	0.7 ug/l	3.5 ug/l
Pb	2.2 ug/l	11.0 ug/l
K	15.6 ug/l	78.0 ug/l
Se	2.0 ug/l	10.0 ug/l
Ag	0.7 ug/l	3.5 ug/l
Hg	-0.1 ug/l	-0.5 ug/l
Ni	0.9 ug/l	4.5 ug/l
Vn	0.9 ug/l	4.5 ug/l

Matrix: Soil

ELEMENT	MAX. CONC. UNITS	AL UNITS
CN	-1.7 ug/l	-8.5 ug/l
Al	48.7 ug/l	243.5 ug/l
Mg	52.4 ug/l	262.0 ug/l

NOTE: Blanks analyzed during a soil case must be converted to mg/kg in order to compare them with the sample results.

conc. in ug/l X $\frac{\text{Volume diluted to (200ml)}}{\text{Weight digested (1gram)}}$ X $\frac{1L}{1000ml}$ X $\frac{1000g}{1kg}$ X $\frac{1mg}{1000ug}$ = mg/kg

Multiplying this result by 5 to arrive at the Action Level gives a final result in mg/kg which can then be compared to sample results

Region I
Inorganic Data Review Worksheets

VI. MATRIX SPIKE

TR = MALP99 Matrix: Soil

1. Recovery Criteria

List the percent recoveries for analytes which did not meet the required criteria.

S - amount of spike added
SSR - spiked sample result
SR - sample result

ANALYTE	SSR	SR	S	%R	ACTION
Sb	42.8274	0.4574	103.95	41.2	J(+), UJ(ND)
Pb	16.2703	13.3555	4.16	70.1	J(+), UJ(ND)

Matrix Spike Actions apply to all samples of the same matrix.

ACTIONS:

1. If the sample concentration exceed the spike concentration by a factor of 4 or more, no action is taken.
2. If any analyte does not meet the %R criteria, follow the actions stated below:

	PERCENT RECOVERY		
	< 30%	30%-74%	>125%
Positive Sample Results	J	J	J
Non-detected Results	R	UJ	A

2. Frequency Criteria

A. Was a matrix spike prepared at the required frequency? Yes or No
B. Was a post digestion spike analyzed for elements that did not meet the required criteria for matrix spike recovery? Yes or No

A separate worksheet should be filled out for each matrix spike pair.

Region I
Inorganic Data Review Worksheets

VII. LABORATORY DUPLICATES

List the concentrations of any analyte not meeting the criteria for duplicate precision. For soil duplicates, calculate the CRDL in mg/kg using the sample weight, volume and percent solids data for the sample. Indicate what criteria was used to evaluate precision by circling either the RPD or CRDL for each element.

Matrix: Soil

ELEMENT	CRDL WATER ug/L	CRDL SOIL mg/kg	SAMPLE # MALP99 mg/kg	DUPLICATE # MALP99D mg/kg	RPD	ACTION
Aluminum	200					
Antimony	60					
Arsenic	10					
Barium	200					
Beryllium	5					
Cadmium	5					
Calcium	5000					
Chromium	10					
Cobalt	50					
Copper	25					
Iron	100					
Lead	5					
Magnesium	5000					
Manganese	15					
Mercury	0.2					
Nickel	40					
Potassium	5000					
Selenium	5					
Silver	10					
Sodium	5000	1,000	116.9439	75.8212		NA
Thallium	10					
Vanadium	50					
Zinc	20					
Cyanide	10					

Laboratory duplicate actions should be applied to all other samples of the same matrix type.

ACTION:

1. Estimate (J) positive results for elements which have an RPD > 20% for waters and > 35% for soils.
2. If sample results are less than 5X the CRDL, estimate (J) positive results for elements whose absolute difference is > CRDL (2X CRDL for soils). If both samples are non-detected, the RPD is not calculated (NC).

Region I
Inorganic Data Review Worksheets

VIII. FIELD DUPLICATES

List the concentrations of all analytes in the field duplicate pair. For soil duplicates, calculate the CRDL in mg/kg using the sample weight, volume and percent solids data for the sample. Indicate what criteria was used to evaluate precision by circling either the RPD or CRDL for each element.

Matrix: Soil

ELEMENT	CRDL WATER ug/L	CRDL SOIL mg/kg	SAMPLE # MALP97 mg/kg	DUPLICATE # MALP98 mg/kg	RPD	ACTION
Aluminum	200	40	3390	3070	9.9	NA
Antimony	60					
Arsenic	10	2	1.7	1.6		NA
Barium	200	40	8.1	7.1		NA
Beryllium	5	1	0.04	0.06		NA
Cadmium	5					
Calcium	5000	1,000	556	497		NA
Chromium	10	2	7.1	6.2		NA
Cobalt	50	10	1.8	1.5		NA
Copper	25	5	7.3	5.2		NA
Iron	100	20	6370	5600	12.9	NA
Lead	5	1	5.4	5.1		NA
Magnesium	5000	1000	1260	1100		NA
Manganese	15	3	65.9	61.4	7.1	NA
Mercury	0.2					
Nickel	40	8	3.8	3.2		NA
Potassium	5000	1000	556	442		NA
Selenium	5	1	0.55			NA
Silver	10	2	0.13	0.09		NA
Sodium	5000	1,000	132	98.2		NA
Thallium	10					
Vanadium	50	10	10.1	8.5		NA
Zinc	20	4	14.4	13.1		NA
Cyanide	10	2	0.29			NA

Field duplicate actions should be applied to all other samples of the same matrix type.

ACTION:

1. Estimate (J) positive results for elements which have an RPD > 30% for waters and > 50% for soils.
2. If sample results are less than 5X the CRDL, estimate (J) positive results for analytes whose absolute difference is > 2X CRDL (4X CRDL for soils). If both samples are non-detected, the RPD is not calculated (NC).

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MALP88

Lab Name: SENTINEL INC. Contract: 68-D5-0169

Lab Code: SENTIN Case No.: 27436 SAS No.: SDG No.: MALP88

Matrix (soil/water): SOIL Lab Sample ID: 25275S

Level (low/med): LOW Date Received: 10/01/99

% Solids: 90.6

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5110			P
7440-36-0	Antimony	0.48	U J	N	P
7440-38-2	Arsenic	1.3	B		P
7440-39-3	Barium	18.3	B		P
7440-41-7	Beryllium	0.02	B U		P
7440-43-9	Cadmium	0.09	U		P
7440-70-2	Calcium	559	B		P
7440-47-3	Chromium	4.4		E	P
7440-48-4	Cobalt	1.5	B		P
7440-50-8	Copper	4.7	B		P
7439-89-6	Iron	5770			P
7439-92-1	Lead	30.0	J	NE	P
7439-95-4	Magnesium	834	B	E	P
7439-96-5	Manganese	91.8			P
7439-97-6	Mercury	0.06	U J		CV
7440-02-0	Nickel	2.8	B		P
7440-09-7	Potassium	253	B	E	P
7782-49-2	Selenium	0.39	U		P
7440-22-4	Silver	0.13	B U		P
7440-23-5	Sodium	94.0	B		P
7440-28-0	Thallium	0.43	U		P
7440-62-2	Vanadium	8.6	B		P
7440-66-6	Zinc	20.0			P
	Cyanide	0.05	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

2

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MALP89

Lab Name: SENTINEL INC. Contract: 68-D5-0169

Lab Code: SENTIN Case No.: 27436 SAS No.: SDG No.: MALP88

Matrix (soil/water): SOIL Lab Sample ID: 25276S

Level (low/med): LOW Date Received: 10/01/99

% Solids: 85.1

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3860			P
7440-36-0	Antimony	0.51	U		P
7440-38-2	Arsenic	14.3			P
7440-39-3	Barium	55.1			P
7440-41-7	Beryllium	0.12	B		P
7440-43-9	Cadmium	0.09	U		P
7440-70-2	Calcium	737			P
7440-47-3	Chromium	4.5			P
7440-48-4	Cobalt	2.7	B		P
7440-50-8	Copper	16.5			P
7439-89-6	Iron	9730			P
7439-92-1	Lead	105			P
7439-95-4	Magnesium	929			P
7439-96-5	Manganese	65.9			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	5.1	B		P
7440-09-7	Potassium	985			P
7782-49-2	Selenium	1.7			P
7440-22-4	Silver	0.23	B		P
7440-23-5	Sodium	255			P
7440-28-0	Thallium	0.47	U		P
7440-62-2	Vanadium	9.2	B		P
7440-66-6	Zinc	58.9			P
	Cyanide	0.05	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

3

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MALP90

Lab Name: SENTINEL INC. Contract: 68-D5-0169

Lab Code: SENTIN Case No.: 27436 SAS No.: SDG No.: MALP88

Matrix (soil/water): SOIL Lab Sample ID: 25277S

Level (low/med): LOW Date Received: 10/01/99

% Solids: 90.6

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3720			P
7440-36-0	Antimony	21.4	J	~~N~~	P
7440-38-2	Arsenic	5.5			P
7440-39-3	Barium	165			P
7440-41-7	Beryllium	0.11	~~B~~	U	P
7440-43-9	Cadmium	1.9			P
7440-70-2	Calcium	4900			P
7440-47-3	Chromium	9.1		~~E~~	P
7440-48-4	Cobalt	3.5	~~B~~		P
7440-50-8	Copper	47.7			P
7439-89-6	Iron	17400			P
7439-92-1	Lead	3640	J	~~NE~~	P
7439-95-4	Magnesium	1290		~~E~~	P
7439-96-5	Manganese	141			P
7439-97-6	Mercury	0.07	~~B~~	UJ	CV
7440-02-0	Nickel	7.6	~~B~~		P
7440-09-7	Potassium	324	~~B~~	~~E~~	P
7782-49-2	Selenium	0.96	~~B~~	U	P
7440-22-4	Silver	0.82	~~B~~		P
7440-23-5	Sodium	129	~~B~~		P
7440-28-0	Thallium	0.43	U		P
7440-62-2	Vanadium	11.7			P
7440-66-6	Zinc	327			P
	Cyanide	0.21	~~B~~	U	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

4

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MALP91

Lab Name: SENTINEL INC. Contract: 68-D5-0169

Lab Code: SENTIN Case No.: 27436 SAS No.: SDG No.: MALP88

Matrix (soil/water): SOIL Lab Sample ID: 25278S

Level (low/med): LOW Date Received: 10/01/99

% Solids: 81.8

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3950			P
7440-36-0	Antimony	0.54	U J	N	P
7440-38-2	Arsenic	14.7			P
7440-39-3	Barium	125			P
7440-41-7	Beryllium	0.59	B		P
7440-43-9	Cadmium	0.34	B	U	P
7440-70-2	Calcium	6110			P
7440-47-3	Chromium	5.7		E	P
7440-48-4	Cobalt	3.5	B		P
7440-50-8	Copper	57.5			P
7439-89-6	Iron	10700			P
7439-92-1	Lead	379	J	NE	P
7439-95-4	Magnesium	1880		E	P
7439-96-5	Manganese	122			P
7439-97-6	Mercury	0.27	J		CV
7440-02-0	Nickel	8.0	B		P
7440-09-7	Potassium	480	B	E	P
7782-49-2	Selenium	2.8			P
7440-22-4	Silver	0.15	B	U	P
7440-23-5	Sodium	305	B		P
7440-28-0	Thallium	0.49	U		P
7440-62-2	Vanadium	14.9			P
7440-66-6	Zinc	142			P
	Cyanide	0.27	B	U	CA

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MALP92

Lab Name: SENTINEL INC. Contract: 68-D5-0169

Lab Code: SENTIN Case No.: 27436 SAS No.: SDG No.: MALP88

Matrix (soil/water): SOIL Lab Sample ID: 25279S

Level (low/med): LOW Date Received: 10/01/99

% Solids: 88.6

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3680			P
7440-36-0	Antimony	0.49	U	N	P
7440-38-2	Arsenic	7.1			P
7440-39-3	Barium	86.8			P
7440-41-7	Beryllium	0.11	B	U	P
7440-43-9	Cadmium	0.09	U		P
7440-70-2	Calcium	1400			P
7440-47-3	Chromium	9.1		E	P
7440-48-4	Cobalt	3.1	B		P
7440-50-8	Copper	32.8			P
7439-89-6	Iron	16600			P
7439-92-1	Lead	151	J	NE	P
7439-95-4	Magnesium	1280		E	P
7439-96-5	Manganese	121			P
7439-97-6	Mercury	0.41	J		CV
7440-02-0	Nickel	8.0	B		P
7440-09-7	Potassium	433	B	E	P
7782-49-2	Selenium	1.1	B	U	P
7440-22-4	Silver	0.31	B	U	P
7440-23-5	Sodium	132	B		P
7440-28-0	Thallium	0.45	U		P
7440-62-2	Vanadium	22.8			P
7440-66-6	Zinc	85.1			P
	Cyanide	0.10	B	U	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

6

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MALP93

Lab Name: SENTINEL INC. Contract: 68-D5-0169

Lab Code: SENTIN Case No.: 27436 SAS No.: SDG No.: MALP88

Matrix (soil/water): SOIL Lab Sample ID: 25280S

Level (low/med): LOW Date Received: 10/01/99

% Solids: 84.3

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3880			P
7440-36-0	Antimony	0.52	U	J ~~N~~	P
7440-38-2	Arsenic	6.6			P
7440-39-3	Barium	28.9	~~B~~		P
7440-41-7	Beryllium	0.09	~~B~~	U	P
7440-43-9	Cadmium	0.09	U		P
7440-70-2	Calcium	1500			P
7440-47-3	Chromium	8.5		~~E~~	P
7440-48-4	Cobalt	2.3	~~B~~		P
7440-50-8	Copper	28.5			P
7439-89-6	Iron	12400			P
7439-92-1	Lead	99.7	J	~~NE~~	P
7439-95-4	Magnesium	943	~~B~~	~~E~~	P
7439-96-5	Manganese	85.7			P
7439-97-6	Mercury	0.08	~~B~~	UJ	CV
7440-02-0	Nickel	5.5	~~B~~		P
7440-09-7	Potassium	308	~~B~~	~~E~~	P
7782-49-2	Selenium	1.1	~~B~~	U	P
7440-22-4	Silver	0.23	~~B~~	U	P
7440-23-5	Sodium	114	~~B~~		P
7440-28-0	Thallium	0.47	U		P
7440-62-2	Vanadium	11.5	~~B~~		P
7440-66-6	Zinc	55.8			P
	Cyanide	0.13	~~B~~	U	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

7

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MALP94

Lab Name: SENTINEL INC. Contract: 68-D5-0169

Lab Code: SENTIN Case No.: 27436 SAS No.: SDG No.: MALP88

Matrix (soil/water): SOIL Lab Sample ID: 25281S

Level (low/med): LOW Date Received: 10/01/99

% Solids: 91.9

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3940			P
7440-36-0	Antimony	0.47	U J	~~N~~	P
7440-38-2	Arsenic	3.9			P
7440-39-3	Barium	54.2			P
7440-41-7	Beryllium	0.09	~~B~~	U	P
7440-43-9	Cadmium	0.09	U		P
7440-70-2	Calcium	1180			P
7440-47-3	Chromium	10.6		~~E~~	P
7440-48-4	Cobalt	2.6	~~B~~		P
7440-50-8	Copper	20.8			P
7439-89-6	Iron	6130			P
7439-92-1	Lead	134	J	~~NE~~	P
7439-95-4	Magnesium	1460		~~E~~	P
7439-96-5	Manganese	76.5			P
7439-97-6	Mercury	0.09	~~B~~	UJ	CV
7440-02-0	Nickel	6.8	~~B~~		P
7440-09-7	Potassium	466	~~B~~	~~E~~	P
7782-49-2	Selenium	0.42	~~B~~	U	P
7440-22-4	Silver	0.17	~~B~~	U	P
7440-23-5	Sodium	94.9	~~B~~		P
7440-28-0	Thallium	0.43	U		P
7440-62-2	Vanadium	10.6	~~B~~		P
7440-66-6	Zinc	69.5			P
	Cyanide	0.05	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

8

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MALP95

Lab Name: SENTINEL INC. Contract: 68-D5-0169

Lab Code: SENTIN Case No.: 27436 SAS No.: SDG No.: MALP88

Matrix (soil/water): SOIL Lab Sample ID: 25282S

Level (low/med): LOW Date Received: 10/01/99

% Solids: 89.8

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3650			P
7440-36-0	Antimony	0.49	UJ	~~N~~	P
7440-38-2	Arsenic	3.5			P
7440-39-3	Barium	37.5	~~B~~		P
7440-41-7	Beryllium	0.11	~~B~~	U	P
7440-43-9	Cadmium	0.09	U		P
7440-70-2	Calcium	1070	~~B~~		P
7440-47-3	Chromium	6.4		~~E~~	P
7440-48-4	Cobalt	2.2	~~B~~		P
7440-50-8	Copper	15.5			P
7439-89-6	Iron	6290			P
7439-92-1	Lead	66.4	J	~~NE~~	P
7439-95-4	Magnesium	1190		~~E~~	P
7439-96-5	Manganese	84.5			P
7439-97-6	Mercury	0.05	~~B~~	UJ	CV
7440-02-0	Nickel	4.8	~~B~~		P
7440-09-7	Potassium	433	~~B~~	~~E~~	P
7782-49-2	Selenium	0.49	~~B~~	U	P
7440-22-4	Silver	0.13	~~B~~	U	P
7440-23-5	Sodium	122	~~B~~		P
7440-28-0	Thallium	0.44	U		P
7440-62-2	Vanadium	11.1			P
7440-66-6	Zinc	39.3			P
	Cyanide	0.05	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

9

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MALP96

Lab Name: SENTINEL INC. Contract: 68-D5-0169

Lab Code: SENTIN Case No.: 27436 SAS No.: SDG No.: MALP88

Matrix (soil/water): SOIL Lab Sample ID: 25283S

Level (low/med): LOW Date Received: 10/01/99

% Solids: 96.9

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2620			P
7440-36-0	Antimony	0.45	UJ	N	P
7440-38-2	Arsenic	1.3	B		P
7440-39-3	Barium	8.1	B		P
7440-41-7	Beryllium	0.06	B	U	P
7440-43-9	Cadmium	0.08	U		P
7440-70-2	Calcium	468	B		P
7440-47-3	Chromium	4.3		E	P
7440-48-4	Cobalt	1.4	B		P
7440-50-8	Copper	4.4	B		P
7439-89-6	Iron	4500			P
7439-92-1	Lead	5.0	J	NE	P
7439-95-4	Magnesium	891	B	E	P
7439-96-5	Manganese	58.2			P
7439-97-6	Mercury	0.05	UJ		CV
7440-02-0	Nickel	3.4	B		P
7440-09-7	Potassium	251	B	E	P
7782-49-2	Selenium	0.42	B	U	P
7440-22-4	Silver	0.16	B	U	P
7440-23-5	Sodium	95.9	B		P
7440-28-0	Thallium	0.41	U		P
7440-62-2	Vanadium	5.8	B		P
7440-66-6	Zinc	11.9			P
	Cyanide	0.05	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

10

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MALP97

Lab Name: SENTINEL INC. Contract: 68-D5-0169

Lab Code: SENTIN Case No.: 27436 SAS No.: SDG No.: MALP88

Matrix (soil/water): SOIL Lab Sample ID: 25284S

Level (low/med): LOW Date Received: 10/01/99

% Solids: 90.5

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3390			P
7440-36-0	Antimony	0.49	UJ	N	P
7440-38-2	Arsenic	1.7	B		P
7440-39-3	Barium	8.1	B		P
7440-41-7	Beryllium	0.04	B	U	P
7440-43-9	Cadmium	0.09	U		P
7440-70-2	Calcium	556	B		P
7440-47-3	Chromium	7.1		E	P
7440-48-4	Cobalt	1.8	B		P
7440-50-8	Copper	7.3			P
7439-89-6	Iron	6370			P
7439-92-1	Lead	5.4	J	NE	P
7439-95-4	Magnesium	1260		E	P
7439-96-5	Manganese	65.9			P
7439-97-6	Mercury	0.06	UJ		CV
7440-02-0	Nickel	3.8	B		P
7440-09-7	Potassium	556	B	E	P
7782-49-2	Selenium	0.55	B	U	P
7440-22-4	Silver	0.13	B	U	P
7440-23-5	Sodium	132	B		P
7440-28-0	Thallium	0.44	U		P
7440-62-2	Vanadium	10.1	B		P
7440-66-6	Zinc	14.4			P
	Cyanide	0.29	B	U	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MALP98

Lab Name: SENTINEL INC. Contract: 68-D5-0169

Lab Code: SENTIN Case No.: 27436 SAS No.: SDG No.: MALP88

Matrix (soil/water): SOIL Lab Sample ID: 25285S

Level (low/med): LOW Date Received: 10/01/99

% Solids: 91.5

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3070			P
7440-36-0	Antimony	0.47	UJ	N	P
7440-38-2	Arsenic	1.6	B		P
7440-39-3	Barium	7.1	B		P
7440-41-7	Beryllium	0.06	B	U	P
7440-43-9	Cadmium	0.09	U		P
7440-70-2	Calcium	497	B		P
7440-47-3	Chromium	6.2		E	P
7440-48-4	Cobalt	1.5	B		P
7440-50-8	Copper	5.2	B		P
7439-89-6	Iron	5600			P
7439-92-1	Lead	5.1	J	NE	P
7439-95-4	Magnesium	1100		E	P
7439-96-5	Manganese	61.4			P
7439-97-6	Mercury	0.05	UJ		CV
7440-02-0	Nickel	3.2	B		P
7440-09-7	Potassium	442	B	E	P
7782-49-2	Selenium	0.39	U		P
7440-22-4	Silver	0.09	B	U	P
7440-23-5	Sodium	98.2	B		P
7440-28-0	Thallium	0.43	U		P
7440-62-2	Vanadium	8.5	B		P
7440-66-6	Zinc	13.1			P
	Cyanide	0.05	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

12

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MALP99

Lab Name: SENTINEL INC. Contract: 68-D5-0169

Lab Code: SENTIN Case No.: 27436 SAS No.: SDG No.: MALP88

Matrix (soil/water): SOIL Lab Sample ID: 25286S

Level (low/med): LOW Date Received: 10/01/99

% Solids: 96.2

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2020			P
7440-36-0	Antimony	0.46	UJ	N	P
7440-38-2	Arsenic	1.0	B		P
7440-39-3	Barium	10.4	B		P
7440-41-7	Beryllium	0.04	B	U	P
7440-43-9	Cadmium	0.08	U		P
7440-70-2	Calcium	966	B		P
7440-47-3	Chromium	3.8		E	P
7440-48-4	Cobalt	1.2	B		P
7440-50-8	Copper	6.7			P
7439-89-6	Iron	3400			P
7439-92-1	Lead	13.4	J	NE	P
7439-95-4	Magnesium	858	B	E	P
7439-96-5	Manganese	51.8			P
7439-97-6	Mercury	0.05	UJ		CV
7440-02-0	Nickel	3.0	B		P
7440-09-7	Potassium	256	B	E	P
7782-49-2	Selenium	0.39	B	U	P
7440-22-4	Silver	0.08	U		P
7440-23-5	Sodium	117	B		P
7440-28-0	Thallium	0.42	U		P
7440-62-2	Vanadium	4.9	B		P
7440-66-6	Zinc	13.2			P
	Cyanide	0.05	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

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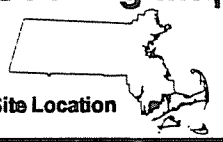
F

APPENDIX F. MADEP SITE SCORING MAP

MA DEP - Bureau of Waste Site Cleanup

Site Scoring Map: 500 feet & 0.5 Mile Radii

SITE NAME:
Standard Times Field
South Front Street
Between Gifford and Wright St.
New Bedford
413716n 705504ew



The information shown on this map is the best available at the date of printing. Please refer to the data source descriptions document.

MASS GIS — Massachusetts Geographic Information System — Massachusetts Executive Office of Environmental Affairs - 1999

DEP

Roads: Limited Access, Divided, Major Road, Connector, Street, Track, Trail

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

Basins: Major, Sub; Streams: Perennial, Intermittent, Man Made Shore, Dams

Potentially Productive Aquifers: Medium,High Yield

Non-Potential Drinking Water Source Area: Medium,High Yield

EPA Designated Sole Source Aquifer

Public Water Supplies: Ground,Surface,Non Community

Approved Zone2; IWPA; Surface Water Supply Zone A

Hydrography: Water Features,Public Surface Water Supply

Wetlands: Fresh,Salt,NHESP Wetlands Habitat

Protected Open Space; ACEC

DEP Permitted Solid Waste Facilities; Certified Vernal Pools

N W E S

SCALE 1:15000

0 1/2 MILES

0 1/2 KILOMETERS[1]

July 26, 1999

APPENDIX G. STATEMENT OF LIMITATIONS

Metcalf & Eddy

STATEMENT OF LIMITATIONS

The data presented and the opinions expressed in this report are qualified as follows:

1. The sole purpose of the investigation and of this report is to assess the physical characteristics of the Site with respect to the presence or absence in the environment of oil or hazardous materials and substances as defined in the applicable state and federal environmental laws and regulations and to gather information regarding current and past environmental conditions at the Site.

2. Metcalf & Eddy (M&E) derived the data in this report primarily from visual inspections, examination of records in the public domain, interviews with individuals with information about the Site, and a limited number of subsurface explorations made on the dates indicated. The passage of time, manifestation of latent conditions or occurrence of future events may require further exploration at the Site, analysis of the data, and reevaluation of the findings, observations, and conclusions expressed in the report.

3. In preparing this report, M&E has relied upon and presumed accurate certain information (or the absence thereof) about the Site and adjacent properties provided by governmental officials and agencies, the Client, and others identified herein. Except as otherwise stated in the report, M&E has not attempted to verify the accuracy or completeness of any such information.

4. The data reported and the findings, observations, and conclusions expressed in the report are limited by the Scope of Services, including the extent of subsurface exploration and other tests. The Scope of Services was defined by the requests of the Client, the time and budgetary constraints imposed by the Client, and the availability of access to the Site.

5. Because of the limitations stated above, the findings, observations, and conclusions expressed by M&E in this report are not, and should not be considered, an opinion concerning the compliance of any past or present owner or operator of the site with any federal, state or local law or regulation. No warranty or guarantee, whether express or implied, is made with respect to the data reported or findings, observations, and conclusions expressed in this report. Further, such data, findings observations, and conclusions are based solely upon site conditions in existence at the time of investigation.

6. This report has been prepared on behalf of and for the exclusive use of the Client, and is subject to and issued in connection with the Agreement and the provisions thereof.