FINAL

ENVIRONMENTAL CONDITION OF PROPERTY REPORT

1LT JOHN S. TURNER
U.S. ARMY RESERVE CENTER (CT004)
180 HIGH STREET
FAIRFIELD, CT 06824

Prepared For:

U.S. Army Corps of Engineers – Louisville District
Engineering Division – Environmental Engineering Branch
600 Dr. Martin Luther King, Jr. Place
Louisville, Kentucky 40202-2232

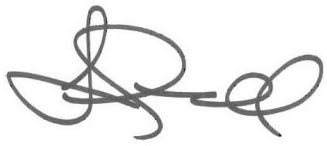
APRIL 2007

Certification

All information/documentation provided accurately reflects the environmental condition of the property. This ECP report is in general accordance with the U.S. Department of Defense (DoD) requirements for completion of an Environmental Condition of Property (ECP) report.

GARY PURYEAR **DATE**
Chief, Environmental Division
94th Regional Readiness Command

The undersigned certifies the contents of this report are in general accordance with DoD policies for the completion of an ECP.



03/20/07

LENARD GUNNELL, P.G. **DATE**
Project Geologist
U.S. Army Corps of Engineers

Executive Summary

CH2M HILL, under contract to the U.S. Army Corps of Engineers, Louisville District, has prepared this Environmental Condition of Property (ECP) report for the 1LT John S. Turner U.S. Army Reserve (USAR) Center (Facility ID CT004), hereafter referred to as the "Property" or "USAR Center." The Property is located at 180 High Street, Fairfield County, Connecticut 06824 and encompasses approximately 5 acres.

This ECP report was conducted in conformance with the Department of Defense's (DoD's) Base Redevelopment and Realignment Manual, DoD 4165.66-M (BRRM), Army Regulation 200-1, and the American Society for Testing and Materials (ASTM) Designation D6008-96 (2005), *Standard Practice for Conducting Environmental Baseline Surveys*.

This ECP report details the history of the property, including the USAR and any prior tenant uses of the Property and the resulting environmental condition of the property. In support of the ECP report, CH2M HILL inspected the Property and performed a reconnaissance of the surrounding area on August 24, 2006.

The USAR Center is on approximately 5 acres of land with two permanent structures, an L-shaped main building and a three-bay vehicle repair garage. The USAR Center is currently occupied by the 9th Battalion 4th Brigade 98th Divisional Institutional Training (IT) and the 325th Transportation Company.

Based on a review of U.S. Geological Survey (USGS) topographic maps dating back to 1960 (the earliest available for this ECP report), the Property appears to have been part of the residential area west of Fairfield. The Property has served as a USAR Center since the U.S. Government acquired the property in 1955.

Areas of potential environmental concern were reviewed, and CH2M HILL found soils impacted by underground storage tanks (USTs) and soils impacted by boiler room activity (the nature and extent of impacts to soil and groundwater from boiler room activity has not yet been identified) relating to the environmental condition of the Property.

In accordance with DoD policy defining the classifications (see Sherri Goodman memorandum dated 21 October 1996), the Property has been classified as Type 7. This classification does not include categorizing the property based on de minimis conditions that generally do not present material risk of harm to the public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

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Abbreviations and Acronyms

The following is a comprehensive list of abbreviations and acronyms that are used throughout this report.

ACM	asbestos-containing material
AMSA	Area Maintenance Support Activity
AR	Army Regulation
AST	aboveground storage tank
ASTM	American Society for Testing and Materials
BRAC	Base Realignment and Closure
BRRM	Base Redevelopment and Realignment Manual
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Act Information System
CFR	Code of Federal Regulations
CORRACTS	Resource Conservation and Recovery Act corrective action site
CTDEP	Connecticut Department of Environmental Protection
DoD	Department of Defense
ECP	Environmental Condition of Property
EDR	Environmental Data Resources, Inc.
ERNS	Emergency Response Notification System
FD	floor drain
FEMA	Federal Emergency Management Agency
I-95	Interstate 95
IT	Institutional Training
kg	kilogram
LBP	lead-based paint
LUST	leaking underground storage tank
MEC	munitions and explosives of concern

MEP	military equipment parking
msl	mean sea level
NBC	nuclear, biological, and/or chemical
NPL	National Priorities List
NRHP	National Register of Historic Places
OF	outfall
OLISP	Office of Long Island Sound Program
OMS	Organizational Maintenance Shop
PAL	Public Archaeology Laboratory, Inc.
PCB	polychlorinated biphenyl
pCi/L	picoCuries per liter
POL	petroleum, oil, and lubricant
POV	privately owned vehicle
RCRA	Resource Conservation and Recovery Act
RCRIS	Resource Conservation and Recovery Act Information System
RRC	Regional Readiness Command
SWP3	stormwater pollution prevention plan
TSD	treatment, storage, and/or disposal
USACE	United States Army Corps of Engineers
USAR	United States Army Reserve
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
UST	underground storage tank

1 Introduction

CH2M HILL, under contract to the U.S. Army Corps of Engineers (USACE) Louisville District Engineering Division was authorized to conduct an Environmental Condition of Property (ECP) report for the 1LT John S. Turner U.S. Army Reserve (USAR) Center (CT004). The facility is located at 180 High Street, Fairfield, Fairfield County, Connecticut 06824, and is hereafter referred to as the Property or USAR Center. CH2M HILL prepared this ECP report under Contract Number W912QR-04-D-0020, Task Order No. 0018, with the Louisville District USACE.

A visual non-intrusive reconnaissance of the Property was conducted on August 24, 2006, in support of the ECP. The purpose of the site reconnaissance was to visually obtain information indicating the likelihood of recognized environmental conditions associated with the Property or adjacent properties.

In preparing this ECP report, CH2M HILL gathered information from available records and previous work from others, interviews with individuals purporting to be familiar with the Property, and observations from a site reconnaissance. The accuracy of the information obtained from these sources was not verified by CH2M HILL. As such, CH2M HILL will make no warranty, expressed or implied, relative to the accuracy, completeness, or reliability of the information used to create the records and reports prepared by others.

1.1 Purpose of Environmental Condition of Property

The Military Department with real property accountability shall assess, determine and document the environmental condition of all transferable property in an ECP report. This ECP report is based on reasonably available information. Pursuant to the Department of Defense's (DoD's) policy, set forth in the Base Redevelopment and Realignment Manual (DoD 4165.66-M, March 1, 2006) Section C8.3 (BRRM), the primary purposes of the ECP report include the following:

- Provide the Army with information it may use to make disposal decisions
- Provide the public with information relative to the environmental condition of the property
- Assist in community planning for the reuse of Base Realignment and Closure (BRAC) property
- Assist federal agencies during the property screening process
- Provide information for prospective buyers
- Assist prospective new owners in meeting the requirements under U.S. Environmental Protection Agency's (USEPA's) "All Appropriate Inquiry" regulations
- Provide information about completed remedial and corrective actions at the property

- Assist in determining appropriate responsibilities, asset valuation, and liabilities with other parties to a transaction

The ECP report contains the information required to comply with the provisions of 40 Code of Federal Regulations (CFR) Part 373, which require that a notice accompany contracts for the sale of, and deeds entered into, for the transfer of federal property on which any hazardous substance was stored, released, or disposed of. The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Section 120(h) stipulates that a notice is required if certain quantities of designated hazardous substances have been stored on the property for 1 year or more—specifically, quantities exceeding 1,000 kilograms (kg) or the reportable quantity, whichever is greater, of the substances specified in 40 CFR 302.4 or 1 kg of acutely hazardous waste as defined in 40 CFR 261.30. A notice also is required if hazardous substances have been disposed of or released on the property in an amount greater than or equal to the reportable quantity. Army Regulation (AR) 200-1 requires that the ECP report address asbestos, lead-based paint (LBP), radon, and other substances potentially hazardous to human health.

This ECP report used the American Society for Testing and materials (ASTM) Designation D6008-96 (2005), *Standard Practice for Conducting Environmental Baseline Surveys*, the BRRM, CERCLA §120, and AR 200-1.

1.2 Scope of Services

This ECP report covers the 5.11-acre USAR Center located at 180 High Street, Fairfield, Connecticut. The Property is bounded by High Street to the west and by residential properties in all other directions. All site maps, figures, and aerial photographs referenced herein are provided in Appendix A, while Appendix B contains the photographs taken during the August 24, 2006, site reconnaissance. Appendix C contains the Property warranty deeds and chain of title information, and lease or permit agreements if applicable. Relevant historical environmental documents and reports are provided in Appendix D, while Appendix E contains the Environmental Data Resources, Inc. (EDR) radius search reports commissioned for this effort.

This ECP report classifies the Property into one of seven DoD Environmental ECP categories as defined by the DoD policy defining the classifications (see Sherri Goodman memorandum dated 21 October 1996). The property classification categories are as follows:

- ECP Area Type 1—An area or parcel of real property where no release or disposal of hazardous substances or petroleum products or their derivatives has occurred (including no migration of these substances from adjacent properties).
- ECP Area Type 2—An area or parcel of real property where only the release or disposal of petroleum products or their derivatives has occurred.
- ECP Area Type 3—An area or parcel of real property where release, disposal, or migration, or some combination thereof, of hazardous substances has occurred, but at concentrations that do not require a removal or remedial action.

- ECP Area Type 4—An area or parcel of real property where release, disposal, or migration, or some combination thereof, of hazardous substances has occurred and all remedial actions necessary to protect human health and the environment have been taken.
- ECP Area Type 5—An area or parcel of real property where release, disposal, or migration, or some combination thereof, of hazardous substances has occurred and removal or remedial actions, or both, are underway, but all required actions have not yet been taken.
- ECP Area Type 6—An area or parcel of real property where release, disposal, or migration, or some combination thereof, of hazardous substances has occurred, but required response actions have not yet been initiated.
- ECP Area Type 7—An area or parcel of real property that is unevaluated or requires additional evaluation.

2 Site Location and Physical Description

2.1 Site Location

The USAR Center is located in Fairfield County on the west side of the town of Fairfield, Connecticut at 180 High Street (Figure 1 Appendix A). The 5.11-acre parcel is surrounded on other property boundaries by residential development.

2.2 Asset Information

Facility Name and Address:	1LT John S. Turner U.S. Army Reserve Center 180 High Street Fairfield, Connecticut 06824
Property Owner:	U.S. Government
Date of Ownership:	1955
Current Occupant:	102nd Transportation Company Detachment
Zoning:	B, Residential
County, State:	Fairfield, Connecticut
USGS Quadrangle(s):	Bridgeport, Connecticut
Latitude/longitude:	41°9'53.6"N; 73°14'32.6"W
Legal Description:	The deed of transfer and chain of title containing the legal description are included in Appendix C.

2.3 Physical Description

The USAR Center is located on a 5.11-acre parcel on the western side of the town of Fairfield, Connecticut. The Property is located on the U.S. Geological Survey (USGS) 7.5-minute Bridgeport quadrangle map, at an average elevation of 50 feet above mean sea level (msl) (Figure 3, Appendix A). The topography is generally uneven with the northeastern section of the Property rising up to 60 feet above msl and sloping generally to about 40 feet above msl in the southwestern section.

The USAR Center contains two permanent structures and four parking lots (Figure 2, Appendix A). Construction of the main building was completed in 1957. The main building consists of an administrative and classroom block and a drill hall. The Organizational Maintenance Shop (OMS) building is located about 250 feet northeast of the main building and was constructed in 1961. Three military equipment parking (MEP) areas (MEP1, MEP2, and MEP3) are on the Property with one located in front of the OMS building, one behind the OMS building, and one to the northwest corner of the OMS building. There also is a

privately owned vehicle (POV) parking area contained within the Property. Chain-link security fencing topped with barbed wire encloses the MEP areas and OMS building.

The L-shaped main building consists of a 114-foot by 48-foot, one-story administrative and classroom block and a 72-foot by 52-foot drill hall. The drill hall and the administrative block are connected by a narrow 34-foot corridor. The first floor of the administrative block is devoted mainly to administrative offices and classrooms, and the basement is used as offices, storage, and a boiler room, which is subgrade of the basement floor. The north wall of the drill hall contains a roll-type garage door for vehicle access and a personnel door. The main building also contains a kitchen.

The OMS building is located approximately 250 feet northwest of the main building. It is a 72-foot by 52-foot, one-story, three-bay vehicle repair garage. The front (west) wall of the OMS building has three garage-type roll doors that lead to each bay (Photograph 1, Appendix B). The personnel access door is located on the north side of the OMS building.

The MEP lots are fenced in with the OMS building. There is one MEP lot each to the east (MEP1) and west (MEP3) of the OMS building. The area is used to store vehicles assigned to the unit. Within MEP1 is a three-bay metal shed for storing hazardous substances. The third MEP lot (MEP2) is fenced off from the main building by a small hilly, wooded area. The area is used to store military vehicles and non-vehicle equipment. The POV parking lot consists of areas east of the main building.

2.4 Site Hydrology and Geology

The USAR Center and Fairfield are located within the Connecticut Valley Lowland Region of the New England Physiographic Province. Surface elevations in the Fairfield area range from 30 to 100 feet above msl. The USAR Center and Fairfield are found on the USGS 7.5-minute Bridgeport quadrangle map (Figure 5, Appendix A).

2.4.1 Surface Water Characteristics

Figure 3 in Appendix A provides a portion of the 1960 Bridgeport, Connecticut USGS topographic map that includes the Property. As shown, the Property is situated on an elevation that slopes from 60 feet above msl in the northeast to about 40 feet msl in the southwest.

A surface water feature near the Property includes a pond located about 490 feet to the west of the Property across Holland Hill Road. Most surface runoff from the site is channeled to this pond via a ditch running west along the southern fence line of the Property. Another surface water body near the Property is Ash Creek, which is located about 2,900 feet southeast of the Property (CT Project Facilities, date unknown).

The stormwater pollution prevention plan (SWP3) prepared for this Property (USGS, 2001) identified two outfalls (OF1 and OF2) by which stormwater leaves the Property. OF1 is a low-lying area in the southeastern corner of the Property. This outfall collects stormwater runoff from MEP1 located at the back (east) of the OMS building. From here, the stormwater infiltrates into the ground. OF2 collects stormwater runoff from remaining parts of the Property and channels it through a bituminous drainage trench along the southern border

of the Property (Photograph 2, Appendix B). From the trench, the stormwater is channeled through a 12-inch pipe to the municipal stormwater sewer, and the municipal stormwater sewer discharges to a small stream that feeds the unnamed pond.

2.4.2 Hydrogeological Characteristics

The bedrock formation underlying the Property is made up of sedimentary and igneous plutonic rocks of Triassic age. The surficial geology is composed of unconsolidated glacial outwash deposits of gravel, sand, silt, and clay in upland areas and stratified deposits of sand, gravel, and silt in river valleys (CT Project Facilities, date unknown).

According to information acquired from the U.S. Department of Agriculture (USDA, 1981) as referenced in CT Project Facilities (date unknown), soils in the Property area are described as consisting of an intermingling complex of Hollis-Charlton rock outcrop. This complex is described as moderately to well-drained, fine sandy loam.

Perched groundwater was encountered at about 12 feet during the removal of the 5,000-gallon heating oil underground storage tank (UST) from the Property. The perched groundwater occurs on top of gray-blue silty clay that is encountered at this depth.

2.5 Site Utilities

Water Service—The Town of Fairfield provides potable water service to the Property.

Sanitary Sewer System—The Town of Fairfield provides sanitary sewer service to the Property. The primary source of wastewater that is directed to the city sewer system includes non-process wastewater (bathrooms, sinks, etc.).

Gas and Electric—Southern Connecticut Gas Company provides natural gas service to the Property, while United Illuminating Company provides electric service to the Property.

2.6 Water Supply Wells and Septic Systems

Based on a review of available historical site and agency records and interviews with site personnel, neither a water supply well nor a septic system is or was located at the Property. The Town of Fairfield supplies potable water to the Property.

A search of federal and state water well databases did not indicate any water supply source within 1 mile of the Property.

3 Site History

3.1 History of Ownership

A review of the available historical records (chain of title for the Property and deed of transfer dated May 20, 1955 [Appendix C]) indicated that the U.S. Government purchased the 5.11 acres of land from William E. Casey and Nellie Houlihan in May 1955. The chain of title indicated that the index containing recent ownership records for the Property since 1955 was being repaired at the time of this ECP report. The Property has served as a USAR Center since the Government bought the Property.

According to a city directory provided by EDR and dated July 12, 2006, the address of the USAR Center was first listed in the research source (Cole Criss-Cross Directory) in 1986. Subsequent city directory searches also list the Property. Historical documentation (PAL, 1995; CT Project Facilities, date unknown) support the 1957 construction date of the USAR Center. A copy of the city directory is included in Appendix E.

3.2 Past Uses and Operations

In 1955, the U.S. Government purchased the 5.11 acres of land for construction of the USAR Center. Construction of the main building occurred in 1957, and the OMS building was constructed in 1961. At the time of compilation of this ECP report, no historical information was available to determine historical use of the Property before it came into the possession of the U.S. Government.

The Property primarily functioned as an administrative, logistical, and educational facility, with limited maintenance of military vehicles occurring in the OMS building. The Property was historically used by reservists for drill activities on various weekends throughout the year. According to site personnel, different units of the USAR have occupied the Property at different times. The units currently occupying the Property are the 9th Battalion 4th Brigade 98th Divisional Institutional Training (IT) and the 325th Transportation Company. At the time of the site reconnaissance, the main building contained various items, including desks, office furniture, and folding tables.

The OMS building was used to perform limited maintenance activities on military equipment. Activities inside the OMS building were limited to preventative maintenance checks, including checking vehicle fluids such as motor oil, water, and antifreeze, and light maintenance activities. Any equipment requiring heavier maintenance activities was sent to an Area Maintenance Support Activity (AMSA) shop located in Milford, Connecticut (AMSA 69). Equipment requiring major overhaul also was sent offsite. At the time of the site reconnaissance, site personnel confirmed that the level of vehicle maintenance has dropped considerably since one of the former units at the USAR Center was relocated (773rd Transportation Company of the 9th Battalion, which was relocated to Fort Totten in Plain, New York).

At the time of the site reconnaissance, the OMS building was being used mainly for storage. Unit supplies (camping supplies such as stoves, tents, and canopies) were stored in cages and on the floor of the OMS. There also was vehicle maintenance accessories (one 10-ton Magnette hydraulic floor lift, parts washer, and tool kit cabinet) observed in the building. In addition, there was one military vehicle parked at the entrance of Bay 1 in the OMS building, and several military light trucks were parked in MEP1 and MEP2.

There is a work pit in Bay 3 of the OMS building. The pit was covered with removable sectional plywood. The pit does not look like it has been used for some time (Photograph 4, Appendix B). ENSR (1996) indicated the work pit had a drain at the bottom. According to the report, the drain in the work pit "has no apparent outfall"; however, 94th RRC personnel indicate that work pits only have collection sumps without drains.

Historical aerial photographs and topographic maps were the primary source of information on the past use and operations at the Property. Figures 3 through 8 in Appendix A provide USGS topographic maps and aerial views of the Property and surrounding areas.

The 1960 USGS topographic map (Figure 3, Appendix A) shows the main building on the Property and surrounding areas developed with residential houses. Also seen on this map to the east of the Property are Interstate 95 (I-95) and New York, New Haven, and Hartford Railroad. The area between I-95 and the railroad southeast of the Property looks like a mixed-use area of commercial properties and residential development. The town of Fairfield is seen established to the northwest and southeast. The 1970 USGS topographic map (Figure 4, Appendix A) shows both the main building and OMS building. The apartment complex presently located east and north of the Property has not yet been constructed. Development along South Main Street also is visible.

In the 1970 topographic map (Figure 4, Appendix A), the name of the railroad changed to Penn Central Railroad, and then changed to Amtrak Railroad on the 1984 topographic map (Figure 5, Appendix A). In addition, the residential development seen northwest and southeast of the Property on the 1960 map is no longer seen on the two photos. Some residential houses are still seen in the area, but not as organized and concentrated as seen in the 1960 map.

The 1963 aerial photograph (Figure 6, Appendix A) shows the Property and adjacent properties developed as residential areas. There are no noticeable changes between this photograph and the ones from 1979 and 1985 (Figures 7 and 8, Appendix A).

No distressed areas are visible on the Property.

3.3 Past Use, Storage, Disposal, and Release of Hazardous Substances

3.3.1 Past Use and Storage of Hazardous Substances

Information related to the past use and storage of hazardous substances at the Property was compiled through review of available site records, search of federal and state environmental databases, and interviews with USAR personnel. Chemicals formerly used and stored at the

Property were associated with vehicle and facility maintenance activities and janitorial services. Janitorial chemicals and building maintenance-related products were stored in the designated storage area within the janitorial closet located in the main building. Vehicle maintenance products and small amounts of petroleum, oil, and lubricant (POL) products also were stored within designated areas in the OMS building. Other potentially hazardous materials and POL products would have been stored in the outdoor hazardous material storage shed located northwest of the OMS building within the MEP3 area.

3.3.2 Past Disposal and Release of Hazardous Substances

Information related to past disposal and potential release of hazardous substances at the Property was compiled through review of available site records, search of federal and state environmental databases, and interviews with USAR personnel. Available records indicate that releases of hazardous substances have occurred at this Property.

During a comprehensive facility assessment in 1997, USAR personnel observed a wet, oily substance on the floor and on the wall a few inches above the floor of the boiler room. This observation was reported to the 94th Regional Readiness Command (RRC) Commander by USAR personnel who conducted the assessment (Department of the Army, 1997).

A 1998 investigation of the oily substance detected petroleum hydrocarbon in soil samples collected from the basement below the boiler room, but no petroleum hydrocarbon was detected in the groundwater samples. The presence of petroleum hydrocarbons in the soil was attributed to poor housekeeping within the basement, although two USTs had been installed within a few feet of the basement wall. The investigation report recommended that no further investigation or remediation was required at that time (Weston, 1998). At the close of the investigation, the walls and floor of the basement were steam cleaned. During the August 2006 site reconnaissance, however, new stains were observed on the walls and floor (Photographs 7, 8, and 9, Appendix B). Site personnel indicated that during times of high water, an oily sheen is seen on the water.

A small stained area on the asphalt pavement that did not appear to extend onto the immediate adjacent unpaved area was observed in the POV parking lot to the south of the main building (Photograph 3, Appendix B). This may have been the result of a non-reportable small release from vehicles parked in this area. USAR Center personnel were not aware of this release until the site reconnaissance.

3.4 Past Presence of Bulk Petroleum Storage Tanks

Based on a review of available site records, a search of federal and state environmental databases, and interviews with USAR personnel, four USTs were previously located at this facility. State agency-approved closure certificates were not located for any of the four USTs during compilation of this ECP report. The state does not require these certificates for the two tanks closed by a Connecticut-certified environmental professional.

In 1990, a 1,000-gallon heating oil UST was removed and replaced with a new one. Contaminated soil encountered during the old tank removal was excavated before installing the new tank (Clean Harbor Inc., 1990). In 1991, a 1,000-gallon used oil UST was removed.

The contractor recommended installing a groundwater monitoring well in the vicinity of the removed tank (Atec Environmental Consultants, 1992).

Two heating oil USTs (one 5,000-gallon UST and the 1,000-gallon replacement UST installed in 1990) were removed in 1998. No contaminated soil was encountered when the tanks were removed. A Connecticut-licensed environmental professional certified that the tank closure met the Connecticut Department of Environmental Protection (CTDEP) requirement (Weston, 1998).

3.5 Review of Previous Environmental Reports

A review of site records produced several reports pertaining to the Property. The following subsections provide a brief summary of these reports. Copies of the reports, unless otherwise specified, are provided in Appendix D.

3.5.1 Underground Storage Tank Closure Reports (1990, 1992, 1998)

Three different reports described the removal of four USTs at different times. The reports detailed the extraction and removal of the tanks, the tanks condition on removal, contaminated soil encountered, disposal of old tanks, impacted soil, and backfill of the excavated area with clean soil.

Clean Harbor Inc. (1990) detailed the removal and replacement of one 1,000-gallon heating oil UST. Contaminated soil encountered during the old tank removal was excavated before the new tank was installed.

Atec Environmental Consultants (1992) detailed the removal of a waste oil UST from the Property. When the tank was pulled, Atec noted that the tank was in good condition, with no signs of perforation, puncture, or severe corrosion. No stained soil was observed. The report recommended installing a well to monitor groundwater in the area near the former tank location.

Roy F. Weston (1998) described the removal of two heating oil USTs (one 5,000-gallon UST and the 1,000-gallon replacement UST installed in 1990) and the investigation of the boiler room where an oily substance was reported. The report also presents the opinion of a Connecticut-licensed environmental professional, who confirmed that effort taken to remove the tank and investigate the oily substance conforms to regulatory requirements.

3.5.2 Archaeological and Historical Survey

In 1995, the 94th RRC commissioned PAL to conduct a survey and a report of the historical and archaeological resources of the Property (PAL, 1995). The purpose of the survey and subsequent report was to inventory all historical and archaeological resources that exist or could potentially exist on the Property. Historical information, setting and landscape, cultural resources, security, architectural information, and structure descriptions of the Property were included in the report. The Property also was assessed for its eligibility to the National Register of Historic Places (NRHP). No buildings or structures within the USAR Center were eligible for listing on the NRHP until 2007, when they become 50 years old.

Public Archaeology Laboratory, Inc. (PAL, 1995) conducted archaeological and historical surveys for the USAR Center. This survey concluded that based on the degree of previous disturbance, the Property possesses low archaeological sensitivity for intact prehistoric and historic resources. The report also concludes that based on the degree of previous disturbance and the extent of the bedrock outcrop, the Property possesses a low archaeological sensitivity for intact resources and recommended no further archaeological investigation.

3.5.3 1996 Floor and Storm Drains Inventory and Natural Resources Inventory

The report's objective was to compile an inventory of floor drains, stormwater drains, and existing natural resources in the Property and make recommendations on how to protect human health and the environment on the Property (ENSR, 1996). Code requirements, facility inspection results, letters from federal and state agencies about rare and endangered species, and recommendations were included in the report. Deficiencies were noted in some of the floor and storm drains on the Property, and corrective actions were recommended.

The report discusses FD-1, which is the floor drain in the bottom of the work pit, as having "no apparent outfall." It also is listed as an "uncompleted inventory item," because the report could not confirm the outfall status during the inventory. The drain status is coded as "Currently in Use (CIU)" and that this use was observed by the ENSR inspectors, but the report also states that site personnel indicated the work pit was no longer used.

The report concluded that the Property did contain any threatened or endangered species of plants and animals and also that no wetlands were contained within the Property.

3.5.4 Asbestos Survey Report and Operation and Maintenance Plan

Covino Environmental Consultants Inc. acting on behalf of Harding and Lawson Associates, conducted a survey to identify asbestos-containing material (ACM) in the USAR Center (Harding and Lawson Associates, 1998). The objective of the survey was to provide the USAR with information concerning the extent of ACM at the facility, a hazard assessment, an operation and maintenance plan to properly address potential concern, and provide information for future remediation effort. The survey report indicated only nonfriable ACM was detected in the basement of the main building and recommended no remedial action be taken (Harding and Lawson Associates, 1998).

3.5.5 U.S. Army Reserve Stormwater Pollution Prevention Plan

The USGS Water Resources Division Connecticut District (USGS, 2001) prepared an SWP3 for the USAR centers in the 94th RRC. The objective of the plan was to identify sources of potential pollution, describe best management practices designed to minimize pollution through prevention and source control, and recommend action for the facility. The SWP3 described stormwater runoff drainage, identified point source outfalls, and provided non-stormwater discharge certification for stormwater outfalls.

4 Adjacent Properties

Adjacent property land uses are significant to the ECP process, as these current or past uses may have an environmental impact on the USAR Center. Adjacent properties were included in the EDR report review for this reason. Typically, adjacent properties within 0.25 mile of the USAR Center property boundaries are reviewed and visually surveyed. For the purposes of this ECP, the adjacent property reconnaissance was performed from the USAR Center property boundaries and from public access points. Historical aerial photographs and topographic maps also were reviewed for conditions or activities that may have had an environmental impact on the Property.

4.1 Land Uses

The USAR Center is located in a residential area, and land use at this Property and areas to the east, south, and north are designated B, Residential. The area west of the Property is designated A, Residential, and this area is designated county right-of-way for a major highway. The highway is divided with a 200-foot grassy median. A strip mall with a grocery store, movie rental store, dry cleaners, and other small businesses are directly south of the USAR Center on the south side of the highway. I-95 is located about 0.13 mile east of the Property.

A small industrial complex is located east-southeast of the Property. This area is between I-95 and Amtrak Railroad. The area is designated "Designed Commercial District and Industrial District "on the Fairfield town zoning map.

4.2 Findings

Three approaches were used to assess adjacent properties for evidence of past or present environmental issues that would impact the USAR Center. These approaches include reviewing the EDR database search results, reviewing historical aerial photographs, and visually surveying the properties from public access areas.

According to the EDR report of July 12, 2006, there are 14 leaking underground storage tank (LUST) sites located within 0.5 mile of the Property. Five of the sites are located at a higher elevation relative to the Property and are associated with LUSTs from small private home heating oil tanks. Remediation at all sites is complete. The other nine sites are located at a lower elevation relative to the Property. Eight of these sites have LUST status listed as "completed," and one is listed as "initiated."

Eight sites within 1 mile of the Property are listed in the Connecticut Leachate and Wastewater Discharge Inventory databases. All eight sites are at a lower elevation relative to the Property.

Water well databases at the federal and state level were reviewed to identify any water supply source near the Property. No water well is located within 1 mile of the Property.

Land use at adjacent properties does not appear to have changed significantly over the years, based on a review of available aerial photographs. The Property and surrounding areas look like developed residential area in the 1960 topographic map (Figure 3, Appendix A). A small commercial/industrial development also is seen to the southeast of the Property in the area between the Amtrak Railroad and I-95. This is seen in all the aerial photographs (1963, 1979, and 1985) and topographic maps (1960, 1970, and 1984) examined for the ECP report.

5 Review of Regulatory Information

An essential component of an ECP is the review of records and databases containing information on the Property and adjacent properties. The review includes reasonably obtainable federal, state, and local government records, and is intended to identify a release or likely release of any hazardous substance or any petroleum product, which is likely to cause or contribute to a release or threatened release of any hazardous substance or any petroleum product to the Property.

The majority of the regulatory information for this ECP was obtained from EDR on August 24, 2006. EDR provides a regulatory database summary that consolidates standard federal, state, local, and tribal environmental record sources based on ASTM D6008 recommended minimum search distances from the Property.

All findings reported in Sections 5.1, 5.2, and 5.3 are from the EDR report unless otherwise noted. A copy of the complete EDR report is included in Appendix E.

5.1 Federal Environmental Records

5.1.1 Federal National Priorities List Sites within 1 Mile

USEPA maintains a record of the nation's worst uncontrolled or abandoned hazardous waste sites, known as the National Priorities List (NPL). Sites on the NPL undergo long-term remedial action under CERCLA. The USAR Center is not an NPL site, nor were there any such sites located within 1 mile of the USAR Center.

5.1.2 Federal Comprehensive Environmental Response, Compensation and Liability Act Information Systems Sites within 0.5 Mile

The CERCLA Information System (CERCLIS) contains data on potentially hazardous waste sites that have been reported to USEPA by state, municipalities, private companies, and private persons, pursuant to Section 103 of CERCLA. CERCLIS contains sites that either are proposed to be or are on the NPL and sites that are in the screening and assessment phase for possible inclusion on the NPL.

The USAR Center is not a CERCLIS site, and there are no CERCLIS sites located within 0.5 mile of the USAR Center.

5.1.3 Resource Conservation and Recovery Act Corrective Action Sites within 1 Mile

Resource Conservation and Recovery Act (RCRA) corrective action sites (CORRACTS) represent facilities that have generated or managed hazardous wastes and require corrective action.

The USAR Center is not a CORRACTS. One site (Handy and Harmon) located approximately 0.5 mile south-southeast of the Property is listed as a CORRACTS. The site is

located at a lower elevation relative to the Property. Furthermore, offsite migration of contaminated groundwater from this site has been contained.

5.1.4 RCRA Treatment, Storage, and/or Disposal Sites within 0.5 Mile

RCRA defines and regulates sites that generate, transport, store, treat, and/or dispose (TSD) of hazardous wastes. The RCRA Information System (RCRIS) includes selective information on these sites.

The USAR Center is not an RCRIS TSD site, and there are no such sites located with 0.5 mile of the USAR Center.

5.1.5 Federal RCRA Small and Large Quantity Generators List within 0.25 Mile

Conditionally exempt small quantity generators are defined as facilities generating less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. RCRA small quantity generators are defined as facilities generating between 100 and 1,000 kg of hazardous waste per month. A facility generating more than 1,000 kg of hazardous waste or over 1 kg of acutely hazardous waste per month is defined as a large quantity generator.

The USAR Center is not listed as an RCRA-registered small quantity generator, and there are no such sites located within 0.25 mile of the Property. No large quantity generators are located within 0.25 mile of the USAR Center.

5.1.6 Federal Emergency Response Notification System List

The Federal Emergency Response Notification System (ERNS) List maintains information on reported releases of oil and hazardous substances. The USAR Center is not on this notification list.

5.2 State and Local Environmental Records

Most of the information presented in this subsection was obtained from the EDR report. Additional information also was obtained from online database searches of CTDEP (http://dep.state.ct.us/). Occasionally, state and local agency personnel were interviewed via telephone to answer questions about any database issues.

5.2.1 State Lists of Hazardous Waste Sites within 1 Mile

The USAR Center is not on the state list of hazardous waste sites.

Two sites (belonging to Bullard Company) located approximately 0.7 and 0.8 mile east-southeast of the Property are listed on the state hazardous waste site list. One site is listed in the EDR report as Bullard Division Industrial Pit and includes a lagoon for foundry waste. The other site, Bullard Division Miscellaneous Surf, formerly discharged combined industrial and cooling water. Both of these locations are at lower elevations relative to the Property.

5.2.2 State-Registered Landfills or Solid Waste Disposal Sites within 0.5 Mile

The USAR Center does not have a solid waste landfill, incinerator, or transfer station within the Property boundaries. No adjacent properties within 0.5 mile of the USAR Center have a solid waste landfill, incinerator, or transfer station.

5.2.3 State-Registered Leaking UST Sites within 0.5 Mile

In addition to information obtained from the EDR report, CTDEP maintains a comprehensive database of contaminated or potentially contaminated sites, including LUST sites. The USAR Center is listed in the state LUST database.

Fourteen other sites within 0.5 mile of the USAR Center are listed in the LUST database. Table 1 summarizes their information relative to the USAR Center and provides the status of their corrective action. Five of the sites are at higher elevation relative to the Property, and the LUSTs are associated with small (less than 550-gallon) private heating oil USTs. The other nine are located at a lower elevation relative to the Property, thus they are not a threat to the environment at the Property. Most of the sites have completed investigations of the LUSTs, and two of them have ongoing investigations. Only the Schon property has the potential of impacting the USAR Center because it is at a higher relative elevation; however, the UST at this site was removed in 1994, and CTDEP has no issues with this site.

5.2.4 State-Registered UST Sites within 0.5 Mile

Review of the EDR report and the CTDEP UST database identified four USTs formerly located at the USAR Center. All of the USTs have been removed and are indicated as permanently closed in EDR report. No other sites within 0.5 mile of the Property are listed in the UST database.

5.2.5 State Spills Incidents

The USAR Center is listed on the Connecticut state petroleum spill list. The records indicate the spill was reported by Roy F. Weston on May 22, 1998. This is about the time that Roy F. Weston removed two heating oil USTs from the facility and investigated the oily substance found on the floor of the boiler room (Weston, 1998).

5.2.6 Records of Contaminated Public Wells

The Town of Fairfield Water and Sewer Board does not own or operate any municipal water supply wells within 0.5 mile of the USAR Center.

5.2.7 Voluntary Remediation Program Sites within 0.5 Mile

The USAR Center is not listed in Connecticut's Brownfield Program (the successor to the Voluntary Cleanup Program). No sites located within 0.5 mile of the USAR Center are listed as being in the Brownfield Program.

TABLE 1
Leaking Underground Storage Tank Sites
Near 1LT John S. Turner USAR Center, Fairfield, Connecticut

Company/Site (Type)	Address	Distance and Direction from Property	LUST Status	Elevation Relative to Property
Unknown (Private)	90 Parkwood Road, Fairfield, CT 06430	Approx. 918 feet southwest	Cleanup Initiated	Lower
Schon Property (Private)	164 Birchwood Road, Fairfield, CT 06430	Approx. 917 feet west	Investigation	Higher
Mr. Samuel Decaro (Private)	29 Jeniford Road, Fairfield, CT 06430	Approx. 1,185 feet north-northwest	Completed	Higher
Richard Ford (private)	438 Crestwood, Fairfield, CT 06430	Approx. 7,465 feet west	Completed	Higher
Leahy Res. (Private)	108 Black Rock Avenue, Fairfield, CT 06430	Approx. 1,547 feet east-northeast	Completed	Lower
Coca Cola (Commercial)	Black Rock Turnpike, Fairfield, CT 06430	Approx. 1,715 feet east	Completed	Lower
Mrs. Budnick (private)	155 Jeniford Road, Fairfield, CT 06430	Approx. 1,768 feet north-northwest	Completed	Higher
Rita Falvey (Private)	35 Quaker Lane, Fairfield, Ct 06430	Approx. 2,130 feet south-southwest	Completed	Lower
Fairco Air Conditioning (Commercial)	Black Rock Turnpike, Fairfield, CT 06430	Approx. 2,200 feet east	Completed	Lower
Jerry Tougas (Private)	61 Quaker Lane, Fairfield, CT 06430	Approx. 2,243 feet south-southwest	Completed	Lower
Sonitrol (Commercial)	1501 Kings Highway, East Fairfield, CT 06430	Approx. 2,387 feet southeast	Completed	Lower
William Mason (Private)	684 Commerce Drive, Fairfield, CT 06430	Approx. 2,428 feet east-northeast	Completed	Lower
Albert Szebo (Private)	771 High Street, Fairfield, CT 06430	Approx. 2,434 feet north	Completed	Higher
Getty Service Station(Commercial)	721 Kings Highway Fairfield, CT 06430	Approx.2581 feet south	Completed	Lower

Completed = Remediation of the emergency conditions caused by a release has been completed. This designation does not mean that all contamination from a leaking tank has been remediated in accordance with state standards.
Investigation = Investigation of the release is underway. More recent information from CTDEP indicated that the investigation has been terminated at Schon property.

5.2.8 State-Registered Bulk Fertilizer and Pesticide Storage Facilities within 0.25 Mile

The USAR Center is not registered with the state as a bulk fertilizer and pesticide storage facility. Additionally, no adjacent properties within 0.25 mile are registered as one of these facilities.

5.3 Unmapped Sites

Some sites within the databases EDR searches have the same zip code as the USAR Center, but no street address. These sites, known as unmapped or orphan sites, cannot be mapped from the EDR results alone. Additional efforts described herein were made to locate these sites and assess their environmental importance to the USAR Center.

Using the mapping utility provided at maps.google.com, the locations of the orphan sites were identified and mapped. One of the sites, Clarks Metal Production located 0.29 mile southeast of the Property, is within the 1-mile search radius for a state-listed hazardous waste site. No violation was found associated with this site.

5.4 Summary of Properties Evaluated to Determine Risk to the Property

To summarize Sections 5.1 through 5.3, six separate properties, near or adjacent to the USAR Center, were evaluated as potential risk properties to the Property. These adjacent properties evaluated were identified as a result of information obtained during area reconnaissance, interviews, and regulatory database searches, and are summarized in Table 2.

Based on an evaluation of available site information and details concerning the properties listed in Table 2, one of the facilities evaluated (Schon property) exhibits significant environmental conditions that have the probability of adversely affecting the environmental conditions at the Property. The Schon property is at a higher elevation relative to the Property, but recent information from CTDEP indicates that the investigation has been terminated. The LUST report is included in Appendix D.

TABLE 2
Properties Evaluated for Potential Environmental Risks
1LT John S. Turner USAR Center, Fairfield, Connecticut

Company/Site	Database(s)	Elevation Relative to Property?	Potential Impact on the Property?	Comments
Schon Property (Private)	LUST	Higher	Yes	LUST status is listed as ongoing.
Mr. Samuel Decaro (Private)	LUST	Higher	No	LUST status is listed as completed.
Albert Szebo (Private)	LUST	Higher	No	LUST status is listed as completed.
Mrs. Budnick (Private)	LUSR	Higher	No	LUST status is listed as completed.
Richard Ford (Private)	LUST	Higher	No	LUST status is listed as completed.
Handy & Harmon	CORRACTS	Lower	No	Offsite migration of contaminated groundwater is under control. The site also is at a lower elevation relative to the Property.

CORRACTS – Resource Conservation and Recovery Act corrective action site
LUST – leaking underground storage tank

6 Site Investigation and Review of Hazards

Findings documented in the following subsections are based on the August 24, 2006, site reconnaissance, a review of available site records, and information obtained from USAR personnel.

6.1 USTs/ASTs

Two heating oil USTs and one waste oil UST have been associated with this facility. By 1998 all three tanks have been removed.

In 1990, one of the heating oil USTs (1,000-gallon) was removed and replaced with another UST (which may be considered a fourth tank). Contaminated soil encountered during the old tank removal was excavated before installing the new tank (Clean Harbor Inc., 1990).

Atec Environmental Consultants removed the 1,000-gallon waste oil UST in 1992. Atec recommended installing a well to monitor groundwater in the area near the former tank location.

Roy F. Weston removed the two remaining heating oil USTs in 1998. A Connecticut-licensed environmental professional confirmed that efforts taken to remove the tank and investigate the oily substance conform to regulatory requirements.

6.2 Inventory of Chemicals/Hazardous Substances

Records pertaining to hazardous substances including hazardous materials, chemical bulk storage, petroleum products, hazardous waste, and petroleum waste were reviewed in addition to interviews and the site reconnaissance to develop the inventory for this Property. Available records indicate that hazardous materials and/or POL are or have been stored at this USAR Center.

Evidence of hazardous materials storage was observed during the site reconnaissance, as automotive maintenance products and common janitorial supplies were seen stored at designated areas of the Property. Janitorial supplies were stored in the janitor's closet in the main building, while automotive products and other POL were stored in a three-bay hazardous material storage shed in the MEP3 area, just northwest of the OMS building (Photograph 5, Appendix B). Material stored in the shed includes diesel fuel, gear oil, motor oil, gasoline, general purpose lubrication oil, virgin antifreeze, winch grease, common bleach, paints, and cans of isopropyl alcohol.

Based on the current tenant's pest management practices, pesticides are applied at this facility by a licensed applicator.

6.3 Waste Disposal Sites

Available records and interviews did not indicate the practice of onsite waste disposal other than through managed storage and offsite disposal, or through the sewer or septic systems (refer to Sections 3.3 and 3.5). No waste disposal sites were observed during the site reconnaissance, nor were any signs of past onsite waste disposal (such as stressed vegetation or suspicious depressions in the landscape) observed.

6.4 Pits, Sumps, Drywells, and Catch Basins

A 55-gallon steel barrel was observed inserted in a hole and completely subgrade to the floor of the men's locker room in the basement of the main building (Photograph 10, Appendix B). The barrel was open and empty. Site personnel were not aware of this barrel before the site reconnaissance. Information on the purpose and date of installation of the barrel was not reasonably available at the time of this ECP report preparation.

A 1996 *Storm and Floor Drain Inventory and Natural Resources Inventory* (ENSR, 1996) and the SWP3 (USGS, 2001) inventoried the floor and storm drains on the Property as well as the outfalls to which these drains discharge. According to ENSR (1996), there are eight floor drains in different areas of both the main and OMS buildings. All floor drains are said to discharge to the municipal sanitary system, except FD-1, which is located in the work pit in the OMS building and has no apparent outfall that could be confirmed. The 94th RRC personnel indicated that FD-1 is not a drain, but a collection sump.

The storm sewer system for the Property consists of four storm drain inverts, two inverts, and a storm drain trench with a culvert (USGS, 2001). These storm sewer structures are located mainly to the western part of the Property around the main building. All inverts and trenches also were confirmed during the August 24, 2006, site reconnaissance. USGS (2001) confirms that the facility storm sewer discharges to the municipal storm system.

6.5 Asbestos-containing Material

A 1998 survey evaluation of ACM at this facility found only nonfriable ACM in the mastic material underneath the 9-inch by 9-inch floor tiles in the basement hallway and two offices in the basement (Harding and Lawson Associates, 1998). Pipe insulation throughout the main building and OMS building had blue "asbestos free" insulation stickers on them (Photograph 6, Appendix B).

6.6 Polychlorinated Biphenyl-containing Equipment

One utility pole-mounted transformer is located on the southwest corner of the Property along Holland Hill Road. The transformer is owned and operated by a local utility company. The polychlorinated biphenyl (PCB) content of the transformer was not reasonably available. During the August 2006 site reconnaissance, the unit appeared to be in good condition, and no evidence of leakage was observed.

6.7 Lead-based Paint

All buildings on the Property were constructed before 1981, and thus are likely to have been painted with LBP. Site personnel confirmed the buildings have been painted several times since construction; thus, LBP originally used on the buildings may have been painted over if it has not been removed. At the time of the site reconnaissance, the painted surfaces at this facility did not show evidence of chipping or peeling.

6.8 Radon

A site-specific radon survey was conducted at the USAR Center between 1993 and 1994. Based on the result of the survey, no sample locations exhibited radon levels above USEPA's recommended maximum allowable exposure level of 4 picoCuries per liter (pCi/L) (94th RRC Memorandum, 1994).

6.9 Munitions and Explosives of Concern

Based on a review of available records, the site reconnaissance, and interviews with USAR Center personnel, there are no indications that munitions and explosives of concern (MEC) are or were present at the Property. There are no firing ranges on the Property, and there is no evidence that a firing range occurred on the Property historically.

6.10 Radioactive Materials

Based on a review of available records, the site reconnaissance, and interviews with USAR Center personnel, there is no indication that radioactive materials were stored or used at the USAR Center.

In the past small quantities of radioactive materials may have been stored at the Property, including compasses, night vision goggles, and nuclear, biological, and/or chemical (NBC) detection and calibration equipment. There are no known releases associated with these radioactive materials. The amount of radioactive materials present in these devices is expected to be minimal and therefore is not expected to present a threat of release to the environment.

A radiological survey has been conducted for this Property, but contacts with the 94th RRC Safety Office indicated that this information was not reasonably available.

7 Review of Special Resources

7.1 Land Use

The Town of Fairfield Planning and Zoning Department has designated this Property and surrounding properties as A-B, Residential. The site is located in a residential land use area.

7.2 Coastal Zone Management

The Office of Long Island Sound Program (OLISP) is the lead agency for the Connecticut Coastal Management Program. OLISP defines coastal zone as an area within 1,000 feet from a tidal river or the shore. This Property is not included in the coastal zone management plan nor is it in a coastal zone.

7.3 Wetlands

According to the U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory map and natural resources survey (ENSR 1996), no jurisdictional wetland areas are identified on the Property or on adjacent properties. The nearest wetland is located less than 0.25 mile south of the Property and is associated with the Scioto River basin.

7.4 100-year Floodplain

A review of the Federal Emergency Management Agency (FEMA) digital Flood Hazard Area map indicates that the Property lies outside the 100-year floodplain.

7.5 Natural Resources

A 1996 natural resources survey of the Property (ENSR, 1996) concluded there were no threatened or endangered animal or plant species found on the Property. The site reconnaissance survey of August 2006 indicates that it is unlikely any threatened or endangered plant or animal species, or any habitat critical to their survival, would occur at this location.

7.6 Cultural Resources

The Connecticut Historic Commission Historic Property Data Collection Form (Appendix D) provides information about a cultural resources survey that PAL, Inc. performed for this site in March 1995. The purpose of the survey was to review historical information, setting and landscape, cultural resources, architectural information, and structure descriptions for this Property. Each structure also was assessed for its eligibility to the NRHP. Overall, neither building at the Property was found to meet the criteria for

inclusion in the NRHP, because they were not 50 years old until 2007. No other artifacts of historic significance were identified on the Property.

8 Conclusions

The following information was obtained after conducting an environmental record search including records for adjacent properties, reviewing available historical information, conducting interviews with knowledgeable parties connected with the Property or with state and local agencies, and conducting a reconnaissance of the Property and adjacent properties.

8.1 Review of Findings

Hazardous Substances. Hazardous substances pursuant to CERCLA §101(14) (42 United States Code 9601(14)) were used and stored at the Property in amounts necessary to support unit-level vehicle and building maintenance activities.

There is a work pit in Bay 3 of the OMS building. The pit was covered with removable sectional plywood. The work pit reportedly had a drain at the bottom, but the outfall for this drain was not apparent to the ENSR inspectors. The 94th RRC personnel indicated there is collection sump and not a drain at the bottom of the work pit.

USTs/Aboveground Storage Tanks (ASTs). Available records indicate that four USTs (three heating oil USTs and one waste oil UST) were located on the Property. All USTs have been removed, and impacted soil encountered during the removal was excavated and taken offsite for disposal. The EDR report (2006) indicated the closure status for all USTs as "Tank Removed from the Ground."

No ASTs are currently or formerly located at this Property.

Non-UST/AST Petroleum Storage. During the August 2006 site reconnaissance, POL storage in 55-gallon drums and 10-gallon fuel containers was observed in the hazardous material shed located in the MEP area. A 1997 comprehensive site assessment of the USAR Center indicated POL on the floor and POL stains on the wall a few inches from the floor in the boiler room. Soil and groundwater samples were collected from beneath the boiler room floor in a 1998 investigation (Weston, 1998). No petroleum hydrocarbons were detected in the groundwater samples. The presence of petroleum hydrocarbon in the soil was attributed to poor housekeeping within the basement, although two USTs had been installed within a few feet of the basement wall.

During the August 2006 site reconnaissance, oily stains were observed on the floor and wall of the boiler room (Photographs 7, 8, and 9, Appendix B). Site personnel indicated that during times of high water table (sometimes after heavy precipitation), an oily sheen is seen on the water that seeps through and collects on the basement floor. A 1998 investigation detected petroleum hydrocarbon in soil samples collected from the basement below the boiler room, but the full nature and extent of impact to soils and groundwater from activity in the boiler room has not been established.

During the August 2006 site reconnaissance, a small area on the POV parking lot was observed to be stained with POL. The stain was on an asphalt-paved area and did not appear to extend to the unpaved area.

PCBs. One utility pole-mounted transformer unit owned and operated by a local utility company is located in the northwestern corner of the Property. The PCB content of the transformer was not immediately available. The transformer exterior was in good condition at the time of the site reconnaissance, and no evidence of releases (such as stains on the pole or adjacent soil) was observed.

ACM. A 1998 survey evaluation of ACM at this facility (Harding and Lawson Associates, 1998) found only non-friable ACM in the mastic material used for floor tiles in the basement of the main building. The report recommended no remedial action be taken.

LBP. No record was found to indicate that an LBP survey has been conducted for this USAR Center. Site personnel confirmed that the building has been painted several times since construction, thus LBP originally used on the building may have been painted over if it has not been removed. At the time of the site reconnaissance, the painted surfaces at this facility did not show evidence of chipped or peeling paint.

Radiological Materials. Based on available records review, interviews, and a site reconnaissance, there is no evidence of any radiological material releases at the Property, and no known releases. Small quantities of radioactive materials associated with compasses, night vision goggles, and NBC detection and calibration equipment may have been stored at the Property in the past. The amount of radioactive materials present in these devices is expected to be minimal and therefore is not expected to present a threat of release to the environment.

Radon. A site-specific radon survey was conducted at the USAR Center between 1993 and 1994. Based on the results of the survey, no sample locations exhibited radon levels above the USEPA recommended maximum allowable exposure level of 4 pCi/L.

MEC. Available records did not indicate any MEC currently or formerly located at this Property. No evidence of MEC was observed during the site reconnaissance.

Surrounding Properties. Potential environmental sites of concern, located within the applicable ASTM D6008 recommended minimum search distance from the Property, were evaluated through database review and site reconnaissance. One of the adjacent properties evaluated (Schon property) exhibited environmental conditions that had or have the potential to adversely affect environmental conditions at the Property. After obtaining the LUST report and evaluating the site with CTDEP personnel, however, CTDEP indicated it has no present issues with the Schon property.

Wetlands and Floodplain. According to the USFWS National Wetlands Inventory map and natural resources survey (ENSR 1996), no jurisdictional wetland areas are identified on the Property or on adjacent properties. The Property is not located within a 100-year floodplain or within a coastal zone.

Threatened and Endangered Species. A 1996 natural resources survey of the Property (*Floor and Storm Drain Inventory and Natural Resources Inventory* [ENSR, 1996]) concluded that there were no threatened or endangered animal or plant species found on the Property.

Archaeological and Historical Resources. A 1995 archaeological and historical survey concluded that based on the degree of previous disturbance and the extent of the bedrock outcrop, the Property possesses a low archaeological sensitivity for intact resources. The report recommended no further archaeological investigation (PAL, 1995). Because the structures were constructed in 1957, they were not yet eligible for consideration for listing on the NRHP; however in 2007, the buildings will be 50 years old and will be eligible for consideration for listing in NRHP.

8.2 Environmental Condition of Property

Findings of this ECP report were based on reasonably available environmental information; interviews with site, state, and local personnel; review of previous environmental studies; and federal and state database and file information related to the storage, release, treatment, or disposal of hazardous substances or petroleum products. Results also were based on visual observations of the Property and adjacent properties.

In accordance with DoD policy defining the classifications (see Sherri Goodman memorandum dated 21 October 1996), the Property has been classified into one of seven property types. Based on the results of this ECP study, the Property has been assigned an overall DoD Environmental Condition Type 7. The property type is based on the following major findings:

- Former 1,000-gallon heating oil UST located behind the OMS building. Impacted soil was identified during the removal of a 1,000-gallon heating oil UST in April 1991. All impacted soil was removed.
- Soil beneath the boiler room floor has been impacted from activity in the boiler room. The nature and extent of this impact has not been established.

9 References

Persons Contacted

- SSG Ernest Ellis, 1LT John S. Turner USAR Center Assistant Facility Manager, 203-256-9493 ext 234, August 24, 2006.
- SSG Eddie Cox, 1LT John S. Turner USAR Center, Center Coordinator, 203-256-9493 ext. 234, August 24, 2006.
- Harry Wilmot , Senior Planning Specialist for 94th RRC, 978-796-2505, August 24, 2006.
- Omar Tyson, Sanitary Engineer, Storage Tank Enforcement Unit, Connecticut Department of Environmental Protection, 860-424-3116, March 14, 2007.

Resources Consulted

- Aerial photographs provided by EDR dated 1960, 1970 and 1984.
- USEPA Map of Radon Zones, http://www.epa.gov/radon/zonemap.html.
- FEMA Flood Hazard Insurance Map, http://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView.
- Federal regulatory databases
  - National Priorities List (NPL), April 20, 2006
  - Proposed NPL Sites, April 19, 2006
- State and local regulatory databases
  - Division of Emergency Response Database, March 14, 2003
  - Connecticut Contaminated and potentially Contaminated sites Inventory, June 2006

Agencies Contacted

- Town of Fairfield, Connecticut, http://www.fairfieldct.org/services.htm.
- Office of Long Island Sound Program, http://www.dep.state.ct.us/olisp/index.htm.

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Clean Harbor Environmental Engineering Corporation. 1990. Underground Storage Tank Removal and Replacement, USAR Center, Fairfield, Connecticut.

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Department of the Army. 1997. Memorandum regarding: Advance Survey Report on Leaking Underground Storage Tanks. February 27.

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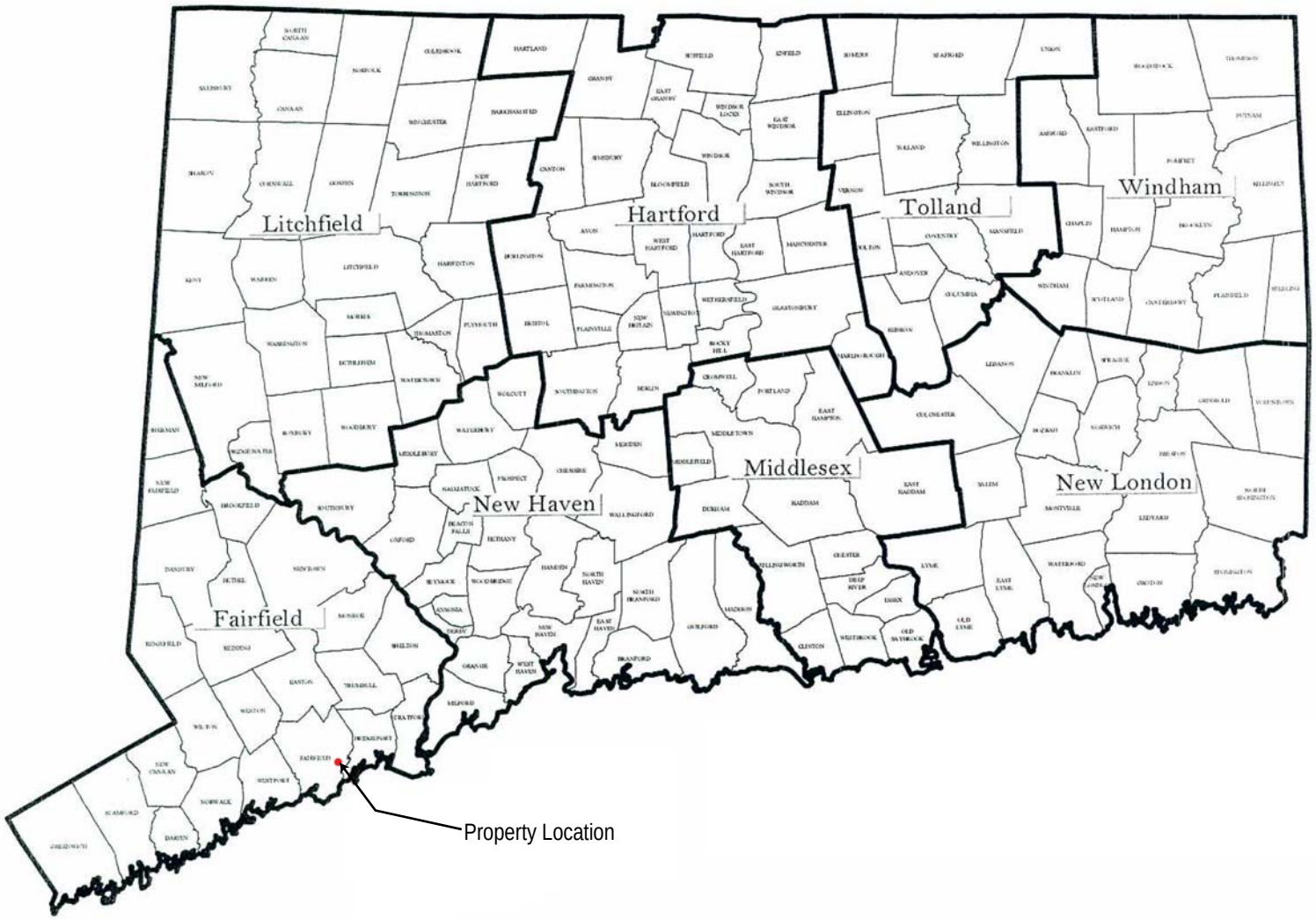
Harding and Lawson Associates. 1998. Asbestos Survey Report and Operation and Maintenance Plan. 1LT John S. Turner USAR Center, Fairfield, Connecticut.

Public Archaeology Laboratory, Inc. (PAL). 1995. Historic Resources Inventory, 1LT John S. Turner USAR Center.

Roy F. Weston. 1998. Tank Closure Report, Underground Storage Tank Removal, USAR Center, Fairfield, Connecticut.

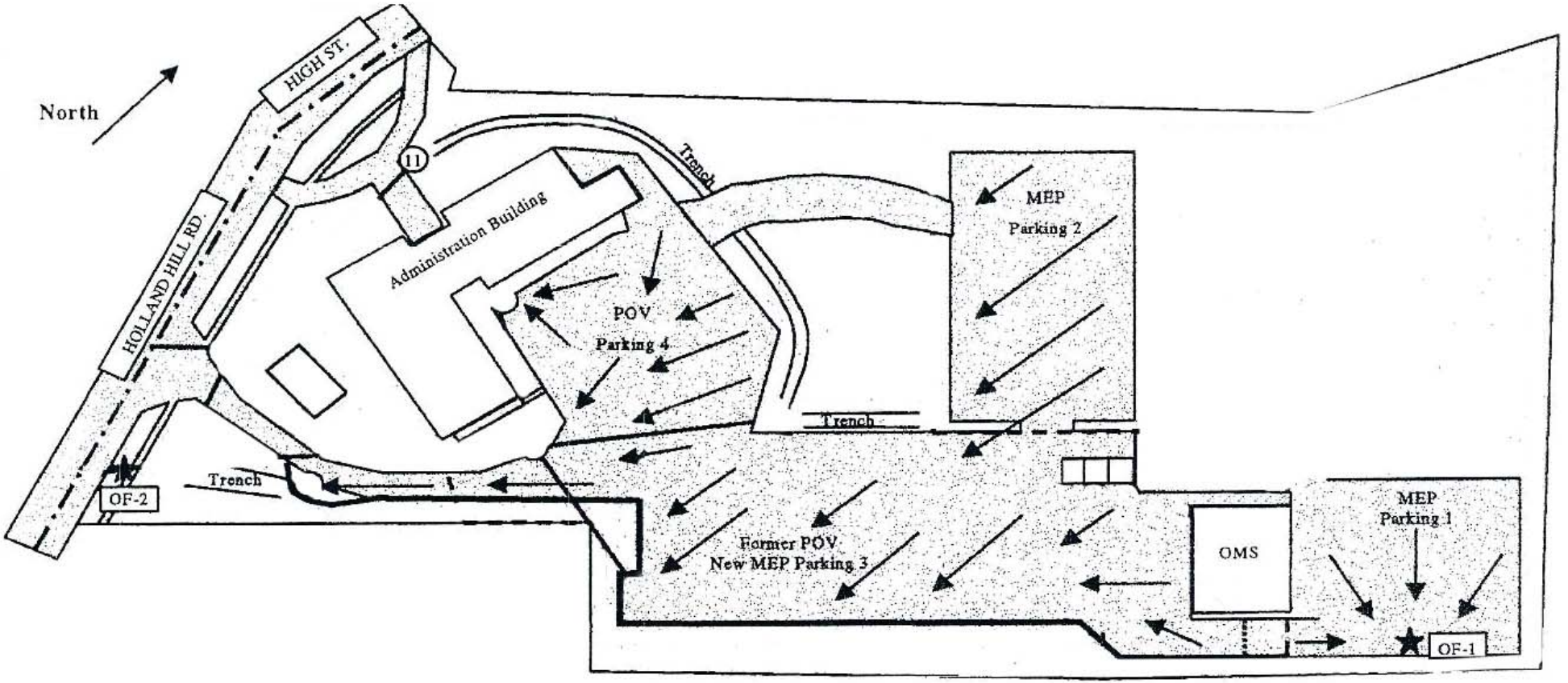
U.S. Geological Survey (USGS). 2001. Stormwater Pollution Prevention Plan (SWP3), 1LT John S. Turner USAR Center. Fairfield, Connecticut.

Appendix A
Figures



North

FIGURE 1
Vicinity Map
Phase I ECP Report



LEGEND

→ Storm Water Runoff

Not to Scale

SOURCE: SWP3, 2005

FIGURE 2
Site Layout Plan
Phase I ECP Report

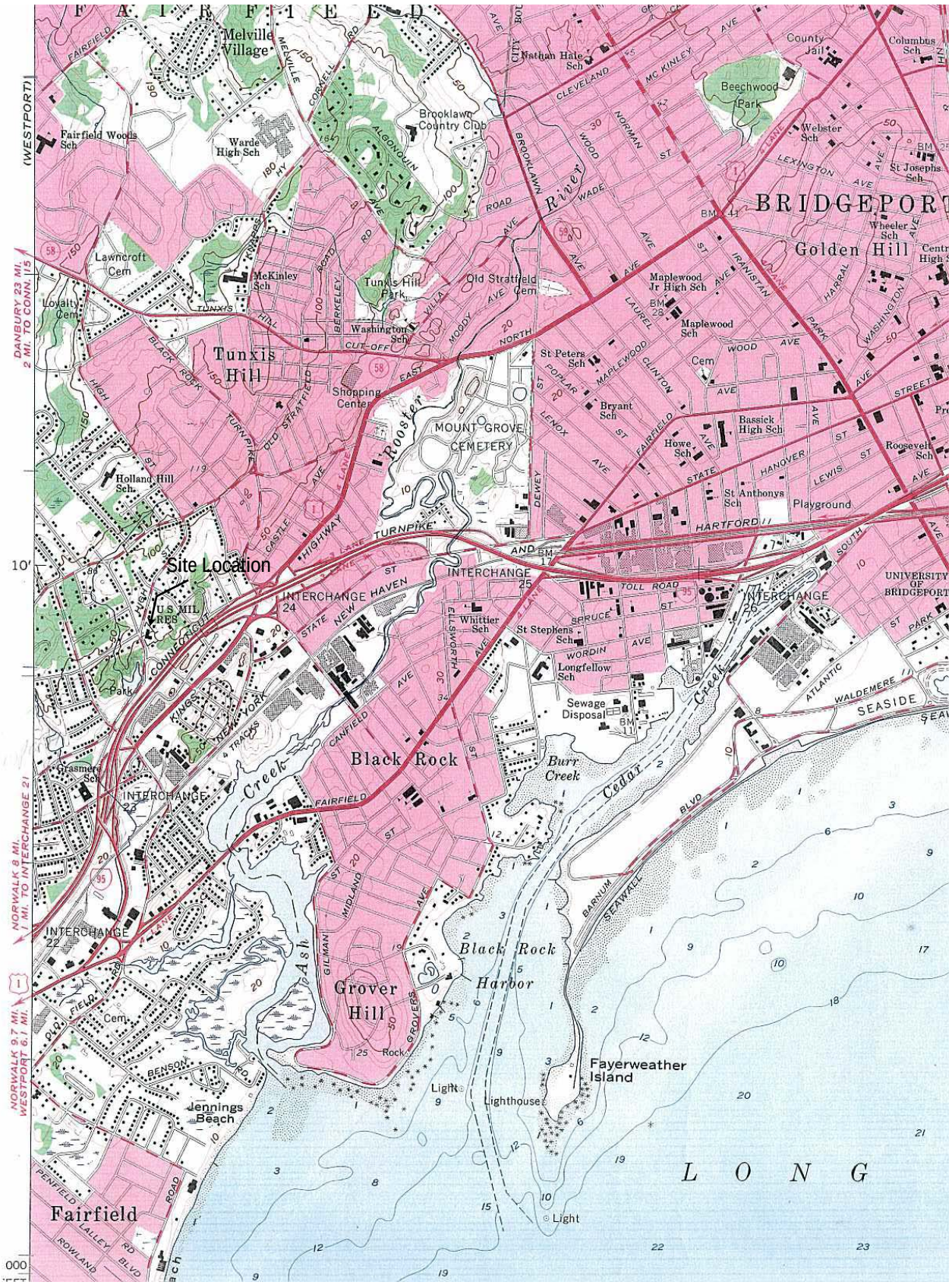


FIGURE 3
1960 USGS Topographic Map
Phase I ECP Report

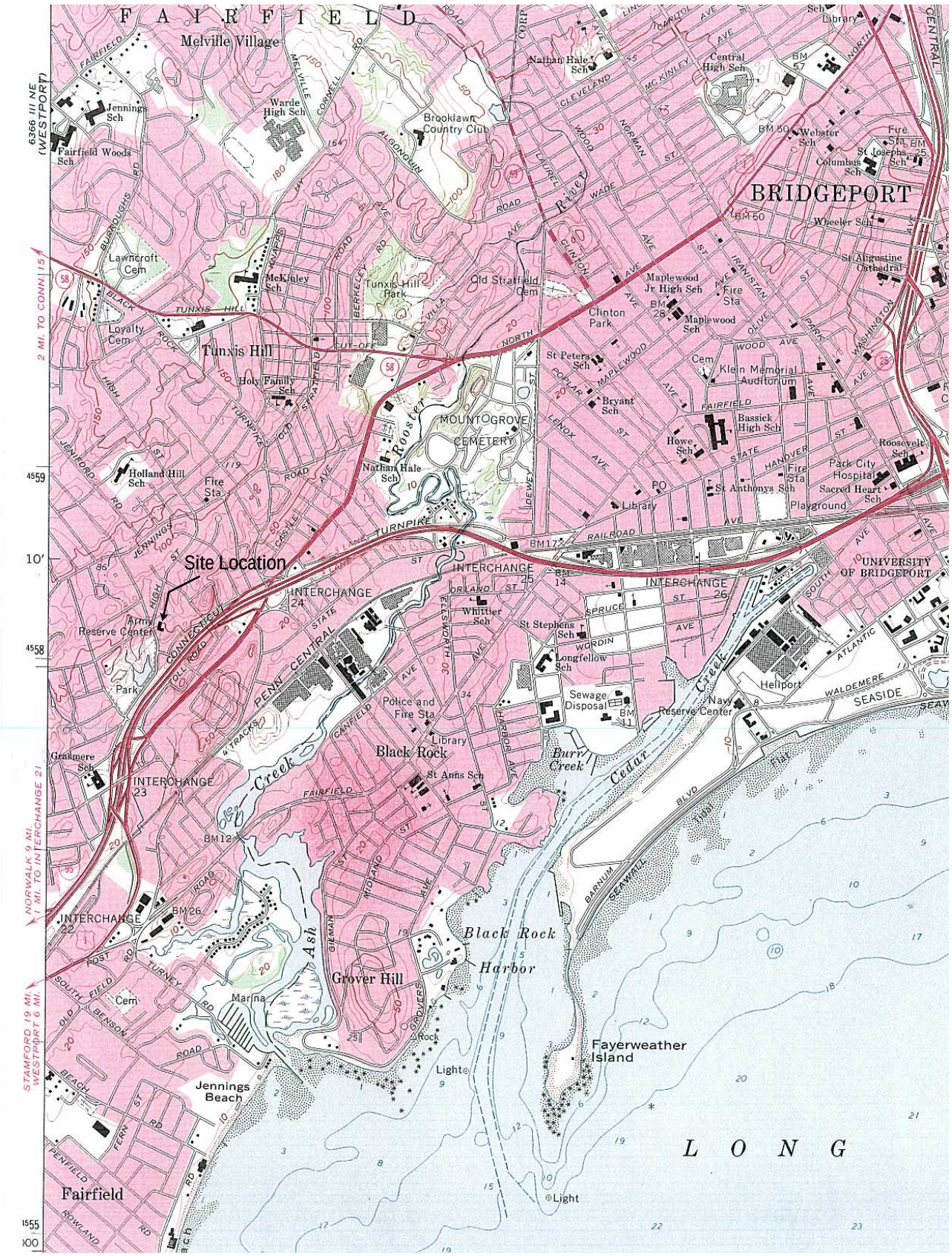


FIGURE 4
1970 USGS Topographic Map
Phase I ECP Report

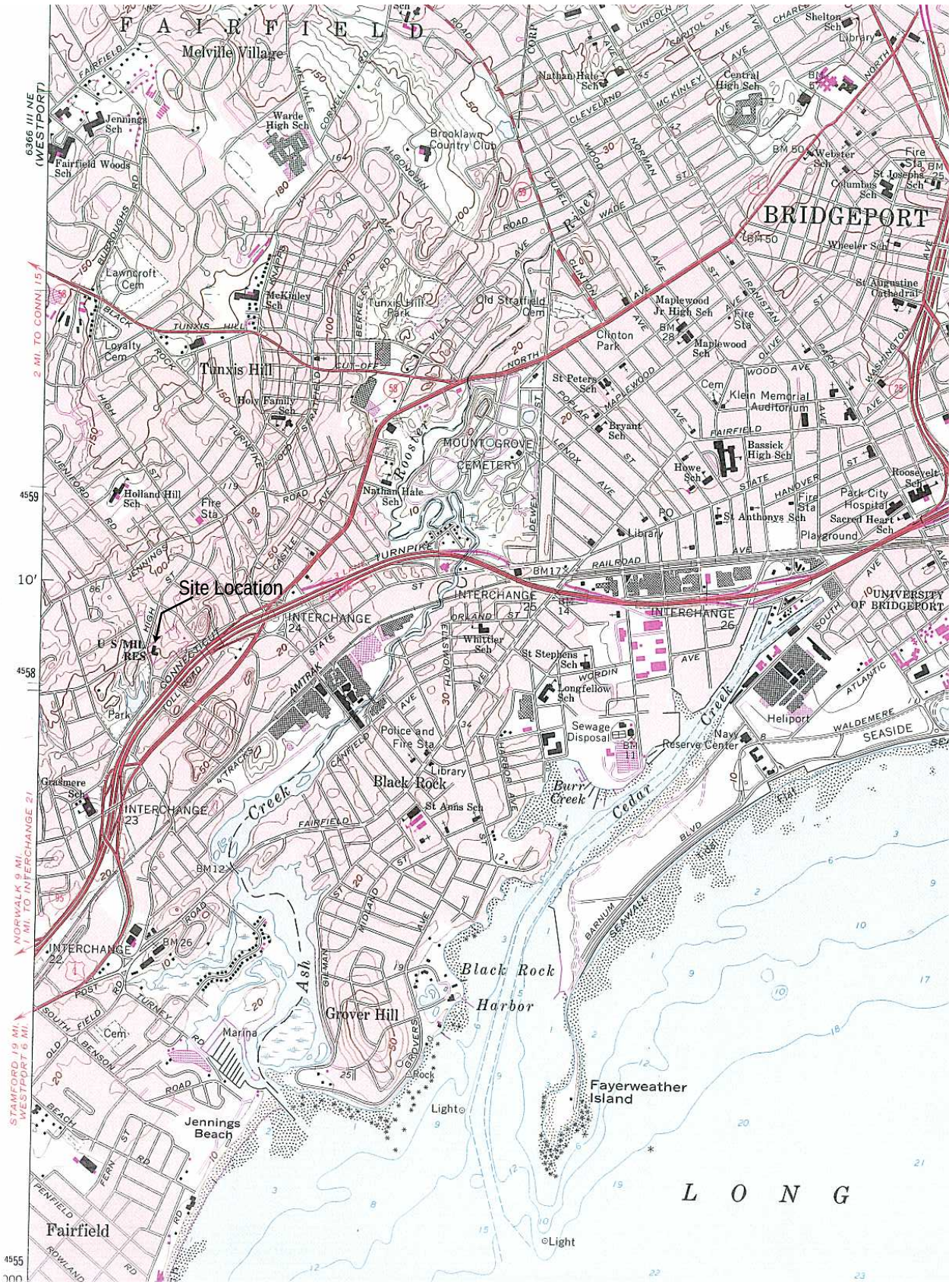


FIGURE 5
1984 USGS Topographic Map
Phase I ECP Report

FIGURE 6
1963 Aerial Photograph
Phase I ECP Report

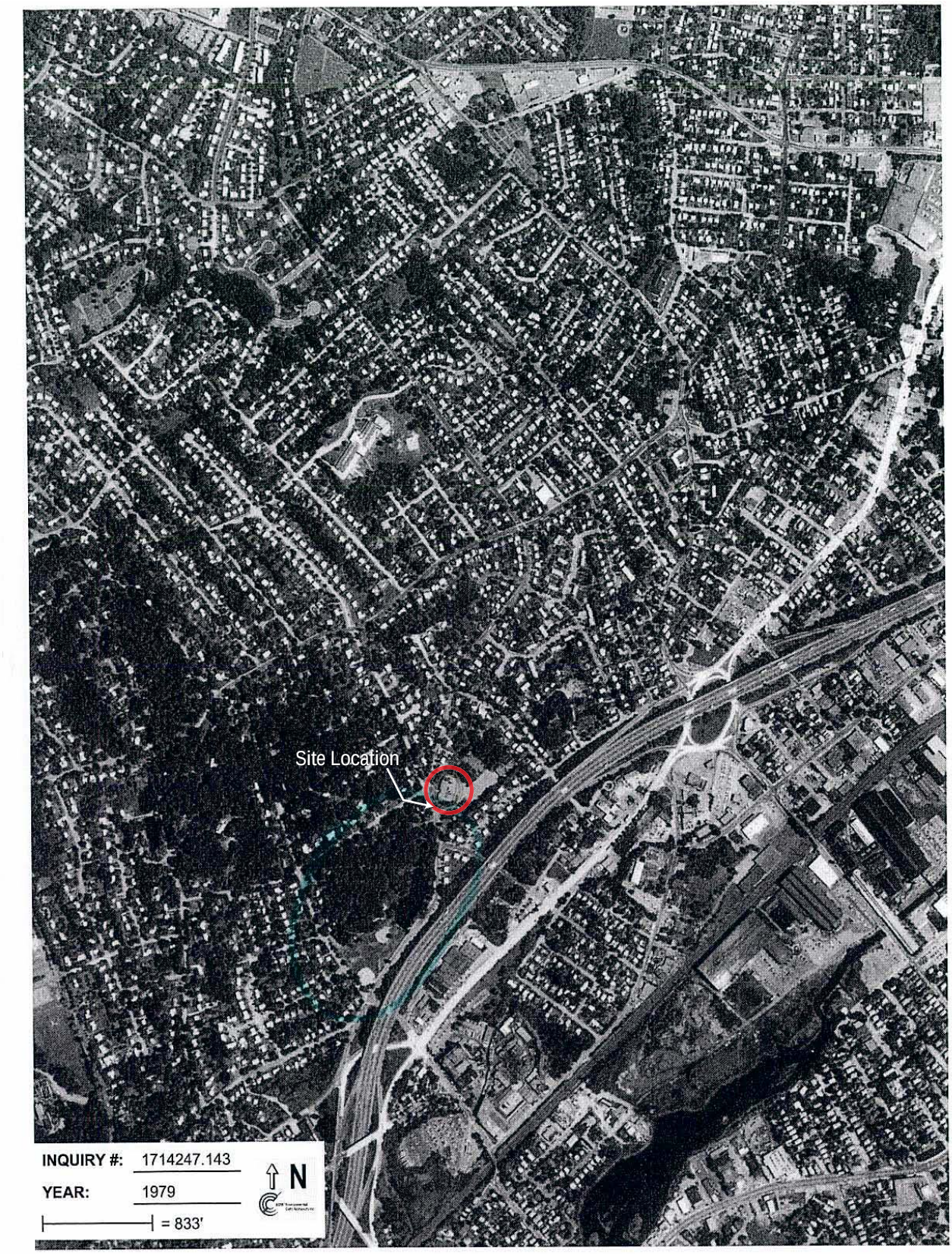


FIGURE 7
1979 Aerial Photograph
Phase I ECP Report

FIGURE 8
1985 Aerial Photograph
Phase I ECP Report

Appendix B
Site Reconnaissance Photographs

APPENDIX B

Site Reconnaissance Photographs

1. View looking east at OMS building.

2. Bituminous storm trench along southern fence line.

3. POL stain on pavement in POV parking area.

4. Work pit inside OMS building.

5. Inside Bay 2 of the hazardous material storage shed.

6. Asbestos free insulation on the pipe in the boiler room.

7. Oily stain on the floor of the boiler room.

8. Oily stain on crack on the floor of the boiler room.

9. Oily stain on the floor of the boiler room.

10. 55-gallon barrel buried in the floor of men's locker room in the basement.

Appendix C

Property Acquisition Documents and Chain of Title Report

2055 East Rio Salado Parkway, Suite 201
Tempe, Arizona 85281
Phone: (480) 967-6752
Fax Number: (480) 966-9422
Web Site: www.netronline.com

HISTORICAL CHAIN OF TITLE REPORT

1 LT JOHN S. TURNER USARC, CT
180 HIGH STREET
FAIRFIELD, CONNECTICUT

Submitted to:

ENVIRONMENTAL DATA RESOURCES, INC.
C/O
CH2M HILL
1569 Stampmill Way
Lawrenceville, Georgia 30043
(770) 338-1589

Attention: Mary Jacques

Project No. N06-5608

Monday, September 18, 2006

NETR- Real Estate Research & Information hereby submits the following ASTM historical chain-of-title to the land described below, subject to the leases/miscellaneous shown in Section 2. Title to the estate or interest covered by this report appears to be vested in:

UNITED STATES OF AMERICA

The following is the current property legal description:

Being that parcel or tract of land, consisting of 5.11 acres of land, more or less, known as Map 126, Lot 24, situated and lying in the Town of Fairfield, Fairfield County, State of Connecticut

Assessor's Parcel No: 18440

1. HISTORICAL CHAIN OF TITLE

1. CERTIFICATE OF DEVISE:
   - RECORDED: 11-16-1940
   - GRANTOR: Estate of John W. Casey, deceased
   - GRANTEE: William E. Casey, Nellie Houlihan and Catherine F. Casey, widow, as to life use
   - INSTRUMENT: Bk 182, Pg 503

2. CERTIFICATE TERMINATING LIFE USE:
   - RECORDED: 03-04-1947
   - GRANTOR: Catherine F. Casey, widow (died on 01-19-1947)
   - GRANTEE: William E. Casey and Nellie Houlihan
   - INSTRUMENT: Bk 214, Pg 496

3. WARRANTY DEED:
   - RECORDED: 10-21-1955
   - GRANTOR: William E. Casey and Nellie Houlihan
   - GRANTEE: United States of America
   - INSTRUMENT: Bk 336, Pg 112

2. LEASES AND MISCELLANEOUS

1. No environmental liens, institutional controls or engineering controls were found of record.

3. LIMITATION

This report was prepared for the use of Environmental Data Resources, Inc., and CH2M Hill, exclusively. This report is neither a guarantee of title, a commitment to insure, or a policy of title insurance. NETR- Real Estate Research & Information does not guarantee nor include any warranty of any kind whether expressed or implied, about the validity of all information included in this report since this information is retrieved as it is recorded from the various agencies that make it available. The total liability is limited to the fee paid for this report.

Banks Information Solutions, Inc.	Environmental Chain of Title
	March 2, 2007

CLIENT
Colleen Reilly **CH2M - Milwaukee** **135 S. 84th St. Ste. #325** **Phone: (414)202-5730** **Fax: (414)454-8884**

SITE
180 High St. **Fairfield, CT 06824-7651** **Fairfield County** **Client #: n/a** **Project #: ES11501A**

Banks Information Solutions, Inc.
P.O. Box 12851, Capitol Station/Austin, Texas 78711
1601 Rio Grande, Suite 500/Austin, TX 78703 512-478-0059 FAX 512-478-1433
E-Mail banks @ banksinfo.com www.banksinfo.com

Banks
Information
Solutions, Inc

HISTORICAL OWNERSHIP REPORT

PROPERTY DESCRIPTION

LEGAL DESCRIPTION: See attached deed.

SUBJECT PARCEL NUMBER: FAIR-00126-000024

TABLE SUMMARY

DATE	DOCUMENT TYPE	GRANTOR (Seller/Lessor)	GRANTEE (Buyer/Lessee)	PARCEL or LOT #	BOOK/PAGE REFERENCE:
10/20/55	Warranty Deed	William E. Casey And Nellie Houlihan	United States of America	Subject parcel	336/112
Per the town Clerk, the Grantee/Grantor Indexes which contain the records from 1940 thru 1947 have been sent out for repairs. A request was left and she will notify us when the information is available.					

Banks
Information
Solutions, Inc

HISTORICAL OWNERSHIP REPORT

TITLE RESEARCH NOTES

Notes:

ASTM Notes: ASTM E 1527-05, Section 8.3 on Historical Use Information requires a review of *"Reasonably Ascertainable standard historical sources."*

"Reasonably Ascertainable means information that is publicly available, obtainable from a source with reasonable time and cost constraints, and practically reviewable."

This task requires reviewing only as many of the standard historical sources as are necessary, and that are reasonably ascertainable and likely to be useful.

Banks Information Solutions, Inc. has determined that the ASTM E 1527-05, Section 8.3 requirements has been met for the subject property searched in this report. Land title records required to obtain additional information regarding the subject property were not "reasonably ascertainable" at the time of this report.

Environmental Liens: No environmental liens identified.

RESOURCES & LIMITATIONS

Banks Information Solutions, Inc. (Banks) has completed you request for an Environmental Chain of Title search for the above site. The information in this report has been produced from a limited search of the public land records and/or real property deed records of the county and state for a 50 year period up through the indicated date as shown on this report. This limited search includes only the recorded deeds and most easements and surface leases affecting the ownership history of the subject property. This report is being provided for use only as a limited part of an overall Phase I Environmental Site Assessment as performed by a qualified Environmental Engineer/Consultant as specified in the ASTM Standard E 1527-05 and as specified in the Comprehensive Environmental Response, Compensation and Liabilities Act of 1980, as amended, and may not be relied upon for any other purpose.

This report is not to be considered an Abstract, a Title Commitment, Title Opinion, Title Guaranty, or a representation of the legal status of the property. The information presented is simply a report of instruments filed of record pertaining to the above property and was obtained from the county public records. No guaranty as to the integrity or correctness of said records is implied.

Banks
Information
Solutions, Inc

HISTORICAL OWNERSHIP REPORT

GLOSSARY

There are certain terms used in Chain of Title searches, which may require clarification. This glossary is designed to provide definitions for some of the most common terms.

1. ENVIRONMENTAL LIEN:	The Environmental Lien is a record of a document/instrument filed by the City, County, State or Federal Government that prevents the conveyance of a property because of severe environmental problems existing on the premises.
2. BREAK IN CHAIN:	There may appear to be a break in the chain of title as indicated when the sequential tracing of ownership fails. An example of a break would be: *Smith to Jones. . .Jones to Wilson. . .White to Black*. The missing link is from Wilson to White. There are several possible reasons for this occurrence. • Due to the size or other physical characteristics of the property, there could be multiple owners at any time when tracing the history of the ownership of the property. • There could be an "easement title" over some portion of the property, allowing for use of that portion for a specific purpose. • There could be a "multi-percentage interest" in the property, with concurrent multiple owners making up 100% of the fee title. Then, a percentage owner deeds out his particular interest or a percentage of this interest to one or more parties. This causes a perceived break in the chain.
3. EASEMENT:	An easement is the right to enter and use another person's property: a non-possessor right to use another person's real property. Traditionally easements are granted to utility companies and other service organizations or as a right of access to another property.
4. MULTIPLE OWNERS:	When "others" or "et al" appears on the report in the owner category, it indicates multiple ownership of a single parcel, with too many names to record in summary. It is frequently used to denote more than a single owner. If the owners are a married couple, both names may appear on the report or may be denoted by "et ux". The term "owners' is usually used to indicate owners of multiple parcels, all recorded under a document that covers the multiple parcels.
5. MULTIPLE PARCELS:	Some properties are created by combining several adjoining parcels into one large parcel. When this occurs; there might be several different owners until the time of unification of the property. Sometimes the ownership appears to be cloudy until each owner conveys his/her interest to the single owner of the new larger parcel.

VOL 336 PAGE 112

TO ALL PEOPLE TO WHOM THESE PRESENTS SHALL COME, GREETING

KNOW YE, That We, William E. Casey of the City of Louisville, County of Jefferson, State of Kentucky, and Nellie Houlihan of the Town of Fairfield, County of Fairfield and State of Connecticut, for the consideration of Twenty-four Thousand and Nine Hundred Dollars ($24,900.00) - - - - received to our full satisfaction of the UNITED STATES OF AMERICA, do give, grant, bargain, sell and confirm unto the said UNITED STATES OF AMERICA and its assigns, a certain parcel of land situated in the Town of Fairfield, County of Fairfield and State of Connecticut, being more particularly bounded and described as follows:

Beginning at a point in the easterly line of High Street, as established by the Town Plan Commission, where the boundary separating land of Loretta F. McNamara from land herein described intersects said line of High Street; thence in a general northerly direction along the easterly line of High Street, as established by the Town Plan Commission, 300 feet, more or less, to a stone fence at land now or formerly of Nellie Houlihan; thence along said stone fence by land now or formerly of Nellie Houlihan South 80° 03' 30" East 4.92 feet to an iron pipe, North 62° 40' 10" East 146.23 feet to an iron pipe, and North 63° 39' 40" East 149.17 feet to a drill hole in rock at land now or formerly of William E. Casey and Nellie Houlihan; thence continuing along stone fence by land now or formerly of William E. Casey and Nellie Houlihan North 62° 43' 00" East 142.89 feet to a drill hole in rock and North 64° 13' 50" East 73.03 feet to a drill hole in a stone wall at land now or formerly of Carl Johnson; thence northeasterly along stone wall by land of Carl Johnson 110 feet, more or less to Hillside Park; thence southeasterly along stone wall by Hillside Park 383 feet, more or less, to land now or formerly of Julius Kocsis; thence southwesterly along stone wall by land now or formerly of Julius Kocsis 501 feet, more or less, to land of Loretta F. McNamara; thence by land of Loretta F. McNamara northwesterly 87.32 feet to an iron pin and southwesterly 241.51 feet to the point of beginning.

Containing 5.11 acres, more or less.

TO HAVE AND TO HOLD the above granted and bargained premises, with the appurtenances thereof, unto the UNITED STATES OF AMERICA and its assigns forever, to it and their own proper use and behoof. And also, we the said grantors do for ourselves, our heirs, executors and administrators, covenant with the said grantee and its assigns, that at and until the ensealing of these presents, we are well seized of the premises, as a good indefeasible estate in FEE SIMPLE; and have good right to bargain and sell the same in manner and form as is above written; and that the same is free from all incumbrances whatsoever.

USIRS
$27.50

VOL 336 PAGE 113

AND FURTHERMORE, We the said grantors do by these presents bind ourselves and our heirs, forever to WARRANT AND DEFEND the above granted and bargained premises to the said grantee and its assigns, against all claims and demands whatsoever.

IN WITNESS WHEREOF, We have hereunto set our hands and seals this 20th day of October in the year of our Lord nineteen hundred and fifty five.

Signed, Sealed and Delivered in presence of

William E. Casey

Nellie Houlihan

State of ~~Kentucky~~ Conn)
) ss. Fairfield Oct 20th 1955
County of ~~Jefferson~~ Fairfield)

Personally appeared William E. Casey, Signer and Sealer of the foregoing Instrument, and acknowledged the same to be his free act and deed before me

NOTARY PUBLIC

~~My Commission expires~~

State of Connecticut)
) ss. Fairfield Oct 20th 1955
County of Fairfield)

Personally appeared Nellie Houlihan, Signer and Sealer of the foregoing Instrument, and acknowledged the same to be her free act and deed before me.

NOTARY PUBLIC

~~My Commission expires~~

Received for Record October 21, 1955 at 11:55 A. M.

Attest Evelyn Wilkes Asst. Town Clerk

TO ALL PEOPLE TO WHOM THESE PRESENTS SHALL COME, GREETING

(1 5) 20 Oct 55

KNOW YE, That We, William E. Casey of the City of Louisville, County of Jefferson, State of Kentucky, and Nellie Houlihan of the Town of Fairfield, County of Fairfield and State of Connecticut, for the consideration of Twenty-four Thousand and Nine Hundred Dollars ($24,900.00) - - - - received to our full satisfaction of the UNITED STATES OF AMERICA, do give, grant, bargain, sell and confirm unto the said UNITED STATES OF AMERICA and its assigns, a certain parcel of land situated in the Town of Fairfield, County of Fairfield and State of Connecticut, being more particularly bounded and described as follows:

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Containing 5.11 acres, more or less.

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Appendix D

Previous Environmental Site Assessment Reports

ENVIRONMENTAL ENGINEERING CORPORATION
325 WOOD ROAD, BRAINTREE, MA 02184
(617) 849-1200

November 5, 1990

Ms. Claudia Johnson
Contractor Administrator
U.S. Department of the Army
Headquarters - Fort Devens
Fort Devens, MA 01433

Re: Underground Storage Tank Removal and Replacement
U.S.A.R.C. 180 High Street
Fairfield, Connecticut (the site), CHEE Job No. E-2953

Dear Ms. Johnson:

Clean Harbors Environmental Engineering, Inc. (CHEE) is pleased to present the following letter report detailing the removal and replacement of an underground 1,000-gallon #2 fuel oil tank located at the northeast side of the maintenance shop at the site. The tank removal and replacement was completed by Clean Harbors of Kingston, Inc., Connecticut Division (CHI).

Prior to removal of the tank, the contents of the tank were transferred to 275-gallon tank used to temporarily supply the furnace. Oily solids and oil and water sediments were disposed by Clean Harbors of Kingston, Inc. and Murphy's Waste Oil of Woburn, Massachusetts. Disposal Manifests are presented in Appendix A. Removal of the tank occurred on February 27, 1990. During tank excavation activities, petroleum contamination was encountered in the soils above and below the tank. The contaminated soil was stockpiled on polyethylene sheeting at the southeast side of the excavation. Inspection of the tank following removal revealed very little corrosion and no pitting which supports the belief that the soil contamination in this area is due to spillage during tank refilling. Once the tank was removed from the excavation, a total of seven soil samples were collected for HNU headspace screening. The sample locations are indicated on the site plan. The screening results are as follows:

S-1 = 10.5	S-4 = 12
S-2 = 18.5	S-5 = 2.0
S-3 = 50	S-6 = 55
	S-7 = 20

Excavation activities were at this time discontinued until the following day, under the direction of U.S. Army officials, pending a decision on remedial measures.

On February 28, 1990 CHI returned to the site to remove as much contaminated soil as possible without endangering the structural integrity of the building. At a depth of approximately 9.5 feet, ledge was encountered on the east side of the excavation where the petroleum staining was the heaviest. Excavation continued to a depth of approximately 13 feet where ledge was encountered in the entire tank area. It was at this time that Army officials informed CHI that the ledge had been

blasted from the area to allow installation of the original tank. Continuous HNU screening during soil removal operations indicated that contamination levels decreased as excavation continued. Once non-detectable levels of contamination were reached on the sides of the excavation, soil removal was ceased and a soil sample was collected from the east and west side of the excavation. These samples were transported to Clean Harbors Analytical Services in Braintree, Massachusetts for analysis.

The samples were submitted for Total and Petroleum oil and grease (by IR), Total Metals, Polychlorinated Biphenals (PCBs), and Volatile Organic (EPA Method 8240) analysis. Results of these analyses indicated non-detectable levels of contamination. The Chain-of-Custody and Laboratory Reports of Analysis are presented in Appendix B.

Installation of the new 1,000-gallon double wall fiberglass #2 fuel oil tank began on March 6, 1990 and was completed on March 12, 1990 in accordance with contract specifications.

On May 25, 1990 the stockpiled contaminated soil was sampled and two composite samples were submitted to Clean Harbors Analytical Services, Inc. Bedford Division for a full range of analysis as required by Consolidated Waste Services of Maine (CWS). Results of this analysis indicated extremely high levels of petroleum hydrocarbons 980 and 1,800 ppm. However, the additional parameters for which the samples were analyzed indicate that the soil was contaminated with virgin petroleum, making it suitable for asphalt recycling. On June 22, 1990, 178 tons of soil were transported to CWS under the direction of CHI. The Chain-of-Custody and Laboratory Reports of Analysis for the soil disposal are presented in Appendix C. The removal of the contaminated soil marked the completion of activities at the site.

Thank you for allowing us the opportunity to serve you. If there are any questions or comments regarding this project, please feel free to contact this office at (617) 849-1200, extension 1386.

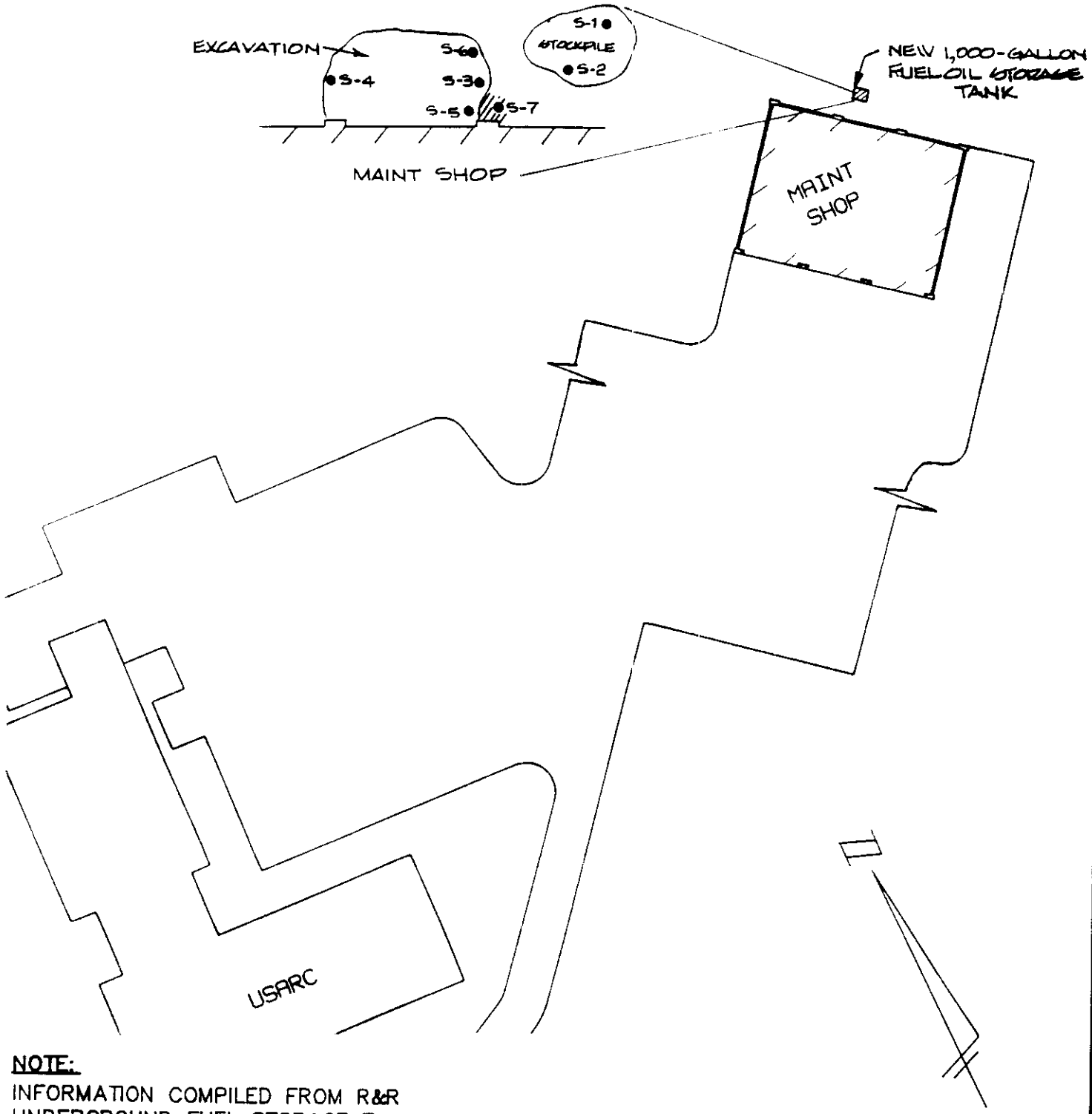
Sincerely,

David Gworek
Operations Manager

Daniel G. Gailor
Senior Engineering Assistant

DGG/jmh
Attachments

USARC Rpt E-2953/Misc Letters



NOTE:
INFORMATION COMPILED FROM R&R UNDERGROUND FUEL STORAGE TANK PLANS DATED JUNE 16, 1989 BY U.S. DEPARTMENT OF THE ARMY.

ISSUE	DESCRIPTION	DRWN.	CHKD.	APPR.	DATE
A	PRELIMINARY	DGG			

CleanHarbors
ENVIRONMENTAL ENGINEERING, INC.
325 Wood Road
Braintree, Massachusetts 02184
Telephone (617) 849-1200/1800

U.S.A.R.C.
HIGH STREET
FAIRFIELD, CONNECTICUT

SITE PLAN

PROJECT NO.	E-2953	DWG. NO.	2953-C-01
SCALE	NONE		

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL QUALITY ENGINEERING
DIVISION OF SOLID AND HAZARDOUS WASTE
One Winter Street
Boston, Massachusetts 02108

C-3964
T#413

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator US EPA ID No. CTD0242128 — Manifest Document No. 18010 — 2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
U.S. Dept of Army Headquarters Fort Devens
Fort Devens Ma. 01433

4. Generator's Phone (508) 796-7685

5. Transporter 1 Company Name — 6. US EPA ID Number
Clean Harbors of Kingston Inc. — MAD039321285

7. Transporter 2 Company Name — 8. US EPA ID Number

9. Designated Facility Name and Site Address — 10. US EPA ID Number
Murphy's Waste Oil Services Inc.
252 R Salem st.
Wabuen ma. 02487 — MAD006658885

A. State Manifest Document Number: MA C 444300
B. State Gen. ID: USARC Fairfield
180 High St. Fairfield Ct. 06430
C. State Trans. ID: MA5608011
D. Transporter's Phone: 617 585-5711
E. State Trans. ID:
F. Transporter's Phone ( )
G. State Facility's ID: Not Required
H. Facility's Phone: 617 935-9066

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
GENERATOR a. Waste oil Mixture Combustible liquid NA1270	001	TT	00365	G	MA011
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above (include physical state and hazard code.)
a. #2 oil & Water
b.
c.
d.

K. Handling Codes for Wastes Listed Above
a. S102
b.
c.
d.

15. Special Handling Instructions and Additional Information
1-800-oil Tank

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

THE WASTE OIL CONTAINED IN THIS SHIPMENT HAS NOT BEEN MIXED WITH PCBs OR WITH ANY HAZARDOUS WASTE DEFINED IN 310 CMR 30.100

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: [illegible] — Signature: [signature] — Date: Month 12 Day 17 Year [illegible]

TRANSPORTER
17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Mike Thompson — Signature: [signature] — Date: Month 02 Day 17 Year 88
18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

FACILITY
19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature: [signature] — Date: Month 02 Day 28 Year 88

OMB No. 2050-0039. Expires 9-30-91
EPA Form 8700-22 (Rev. 9-86) Previous editions are obsolete.

DISTRIBUTION: GENERATOR'S COPY; TRANSPORTER-RETAINED BY TRANSPORTER

MA C 444300 COPY 5: TRANSPORTER-RETAINED BY TRANSPORTER

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL QUALITY ENGINEERING
DIVISION OF SOLID AND HAZARDOUS WASTE
One Winter Street
Boston, Massachusetts 02108

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator US EPA ID No. CRW0217289001 — Manifest Document No. 38582 — 2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
FAIRFIELD ARMY RESERVE
180 HIGH ST FAIRFIELD CT

4. Generator's Phone (203) 259-7819

5. Transporter 1 Company Name: CLEAN HARBORS OF KINGSTON INC — 6. US EPA ID Number: MAD 039322150

7. Transporter 2 Company Name — 8. US EPA ID Number

9. Designated Facility Name and Site Address
CLEAN HARBORS OF BRAINTREE INC.
385 QUINCY AVE
BRAINTREE MA

10. US EPA ID Number: MAD053452637

A. State Manifest Document Number: MA C 438582
B. State Gen. ID: SAME
C. State Trans. ID: 674-352 MA
D. Transporter's Phone (617) 585-5114
E. State Trans. ID
F. Transporter's Phone ( )
G. State Facility's ID: Not Required
H. Facility's Phone 617 849 1800

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	OIL/SOLIDS NON DOT REGULATED NONE/NONE	001	DM	00220	P	MA01
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above (Include physical state and hazard code.)
a. RE34186 STATE LEG WASTE MATERIAL
b.
c.
d.

K. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: BENJAMIN C MAXWELL — Signature: [signature] — Date: Month 11 Day 12 Year 86

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: RONALD V. BOUCHER — Signature: [signature] — Date: Month 11 Day 12 Year 86

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: John A. [illegible] — Signature: [signature]

Form Approved OMB No. 2050-0039, Expires 9-30-91
EPA Form 8700-22 (Rev. 9-86) Previous editions are obsolete.

GENERATOR — TRANSPORTER-RETAINED BY TRANSPORTER

MA C 438582 COPY 5: TRANSPORTER-RETAINED BY TRANSPORTER

ANALYTICAL SERVICES
325 WOOD ROAD, BRAINTREE, MA 02184
(617) 849-6070

REPORT OF ANALYSIS

Clean Harbors of Connecticut
60 Peter Court
New Britain, CT 06051

Project: US ARMY RESERVE-FAIRFIELD
P.O. #: C-3964

Date Received: 03/07/90
CHAS Lab #: 9003060

Attn: Mr. Dave Gworek

Enclosed are the results for the sample(s) delivered to our laboratory on the date indicated above.

The methods listed represent those methodologies which were used to develop the best analytical techniques. Analytical results and quality assurance protocols are based on these guidelines. These meet the requirements for the reporting of results under the RCRA, NPDES and Safe Drinking Water Act regulations.

Clean Harbors Analytical Services has an active program of quality assurance and quality control. The program closely follows the guidance provided in the EPA Contract Laboratory Program Statement of Work (organic - 7/87 and inorganic - 7/85), the guidance provided in SW-846, and many other pertinent documents.

Should you have any questions concerning this work, please do not hesitate to contact me.

The information contained in this report is, to the best of my knowledge, accurate and complete.

Per/Date: 4/3/90
Jeanne M. Engel
Laboratory Director

Client: Clean Harbors of Connecticut
Sample I.D.: ARC-RIGHT
Sample Type: Soil

CHAS Lab #: 9003060-01A
Date Received: 03/07/90

Volatile Organic Analysis - System: #1
by EPA Method 8240(ref. c)

Analysis Date: 03/07/90

Parameter	MDL*	Conc.*	Parameter	MDL*	Conc.*
Priority Pollutant Compounds:			1,1,2-Trichloroethane	10	ND
Chloromethane	19	ND	trans-1,3-Dichloropropene	10	ND
Bromomethane	19	ND	2-Chloroethylvinyl Ether	19	ND
Vinyl Chloride	19	ND	Bromoform	10	ND
Chloroethane	19	ND	1,1,2,2-Tetrachloroethane	10	ND
Methylene Chloride	10	ND	Tetrachloroethene	10	ND
Trichlorofluoromethane	10	ND	Toluene	10	ND
1,1-Dichloroethene	10	ND	Chlorobenzene	10	ND
1,1-Dichloroethane	10	ND	Ethylbenzene	10	ND
trans-1,2-Dichloroethene	10	ND			
Chloroform	10	ND	**Hazardous Substance List Compounds:**		
1,2-Dichloroethane	10	ND	Acetone	39	ND
1,1,1-Trichloroethane	10	ND	Carbon Disulfide	19	ND
Carbon Tetrachloride	10	ND	2-Butanone	39	ND
Bromodichloromethane	10	ND	Vinyl Acetate	19	ND
1,2-Dichloropropane	10	ND	4-Methyl-2-Pentanone	10	ND
cis-1,3-Dichloropropene	10	ND	2-Hexanone	10	ND
Trichloroethene	10	ND	Styrene	10	ND
Benzene	10	ND	Total Xylenes	10	ND
Dibromochloromethane	10	ND			
			Additional Compounds:		
			Dibromoethane(EDB)	10	ND
			Methyl-t-Butylether(MTBE)	19	ND

Notes ND = Below minimum detectable level (MDL)
TR = Trace amount present but below MDL
* = ug/kg

No additional peaks observed in sample

QA/QC	Surrogate Recoveries:	Acceptance Criteria:	Water	Soil
	d4-1,2-Dichloroethane: 116 %		76-114	70-121
	d8-Toluene: 95 %		88-110	81-117
	p-Bromofluorobenzene: 96 %		86-115	74-121

Client: Clean Harbors of Connecticut
Sample I.D.: ARC-RIGHT
Sample Type: Soil

CHAS Lab #: 9003060-01M
Date Received: 03/07/90

Parameter	MDL	Result	Units	Analysis Date	Method Number and Reference
Petroleum Hydrocarbon Oil & Grease by IR	10	11	mg/kg	03/08/90	503D/503E-B(b)
Total Solids	--	83.3	%	03/07/90	209F(b)

Notes: ND = Below minimum detectable level (MDL)
Soil/solid samples based on sample dry weight.
Oil & Grease Extraction Date: 03/08/90

Client: Clean Harbors of Connecticut
Sample I.D.: ARC-RIGHT
Sample Type: Soil

CHAS Lab #: 9003060-01L
Date Received: 03/07/90

Parameter	MDL	Result	Units	Analysis Date	Method Number and Reference
Arsenic - EP Toxicity (1)	0.2	ND	mg/l	03/13/90	3010/6010(c)
Barium - EP Toxicity (1)	0.05	0.07	mg/l	03/13/90	3010/6010(c)
Cadmium - EP Toxicity (1)	0.005	0.009	mg/l	03/13/90	3010/6010(c)
Chromium - EP Toxicity (1)	0.01	0.01	mg/l	03/13/90	3010/6010(c)
Lead - EP Toxicity (1)	0.1	ND	mg/l	03/13/90	3010/6010(c)
Mercury - EP Toxicity (1)	0.0004	ND	mg/l	03/15/90	7470(c)
Selenium - EP Toxicity (1)	0.2	ND	mg/l	03/13/90	3010/6010(c)
Silver - EP Toxicity (1)	0.02	0.13	mg/l	03/13/90	3005/6010(c)

Notes: ND = Below minimum detectable level (MDL)
Soil/solid samples based on sample dry weight.
Sample extracted 03/08/90
Mercury digested 03/14/90

(1) Sample was evaluated by EPA Method 1310, EP Toxicity, as described in reference (c).

Client: Clean Harbors of Connecticut
Sample I.D.: ARC-RIGHT
Sample Type: Soil

CHAS Lab #: 9003060-01M
Date Received: 03/07/90

Polychlorinated Biphenyls (PCB's)
by EPA Method 3550/8080

Extraction Date: 03/07/90
Analysis Date: 03/08/90

Parameter	MDL	Concentration	Units
PCB - Aroclor 1016	0.1	ND	mg/kg
PCB - Aroclor 1221	0.1	ND	mg/kg
PCB - Aroclor 1232	0.1	ND	mg/kg
PCB - Aroclor 1242	0.1	ND	mg/kg
PCB - Aroclor 1248	0.1	ND	mg/kg
PCB - Aroclor 1254	0.1	ND	mg/kg
PCB - Aroclor 1260	0.1	ND	mg/kg

Notes: ND = Below minimum detectable level (MDL)
Soil/solid sample results based on sample dry weight

Client: Clean Harbors of Connecticut
Sample I.D.: ARC-LEFT
Sample Type: Soil

CHAS Lab #: 9003060-02A
Date Received: 03/07/90

Volatile Organic Analysis - System: #1
by EPA Method 8240(ref. c)

Analysis Date: 03/07/90

Parameter	MDL*	Conc.*	Parameter	MDL*	Conc.*
Priority Pollutant Compounds:			1,1,2-Trichloroethane	10	ND
Chloromethane	19	ND	trans-1,3-Dichloropropene	10	ND
Bromomethane	19	ND	2-Chloroethylvinyl Ether	19	ND
Vinyl Chloride	19	ND	Bromoform	10	ND
Chloroethane	19	ND	1,1,2,2-Tetrachloroethane	10	ND
Methylene Chloride	10	ND	Tetrachloroethene	10	ND
Trichlorofluoromethane	10	ND	Toluene	10	ND
1,1-Dichloroethene	10	ND	Chlorobenzene	10	ND
1,1-Dichloroethane	10	ND	Ethylbenzene	10	ND
trans-1,2-Dichloroethene	10	ND			
Chloroform	10	ND	Hazardous Substance List Compounds:		
1,2-Dichloroethane	10	ND	Acetone	39	ND
1,1,1-Trichloroethane	10	ND	Carbon Disulfide	19	ND
Carbon Tetrachloride	10	ND	2-Butanone	39	ND
Bromodichloromethane	10	ND	Vinyl Acetate	19	ND
1,2-Dichloropropane	10	ND	4-Methyl-2-Pentanone	10	ND
cis-1,3-Dichloropropene	10	ND	2-Hexanone	10	ND
Trichloroethene	10	ND	Styrene	10	ND
Benzene	10	ND	Total Xylenes	10	ND
Dibromochloromethane	10	ND			
			Additional Compounds:		
			Dibromoethane(EDB)	10	ND
			Methyl-t-Butylether(MTBE)	19	ND

Notes ND = Below minimum detectable level (MDL)
TR = Trace amount present but below MDL
* = ug/kg

No additional peaks observed in sample

QA/QC	Surrogate Recoveries:	Acceptance Criteria:	Water	Soil
	d4-1,2-Dichloroethane: 112 %		76-114	70-121
	d8-Toluene: 93 %		88-110	81-117
	p-Bromofluorobenzene: 107 %		86-115	74-121

CleanHarbors

ient: Clean Harbors of Connecticut
ample I.D.: ARC-LEFT
Sample Type: Soil

CHAS Lab #: 9003060-02M
Date Received: 03/07/90

Parameter	MDL	Result	Units	Analysis Date	Method Number and Reference
troleum Hydrocarbon Oil & Grease by IR	10	80	mg/kg	03/08/90	503D/503E-B(b)
tal Solids	--	82.3	%	03/07/90	209F(b)

Notes: ND = Below minimum detectable level (MDL)
Soil/solid samples based on sample dry weight.
Oil & Grease Extraction Date: 03/08/90

Client: Clean Harbors of Connecticut
Sample I.D.: ARC-LEFT
Sample Type: Soil

CHAS Lab #: 9003060-02L
Date Received: 03/07/90

Parameter	MDL	Result	Units	Analysis Date	Method Number and Reference
Arsenic - EP Toxicity (1)	0.2	ND	mg/l	03/13/90	3010/6010(c)
Barium - EP Toxicity (1)	0.05	0.08	mg/l	03/13/90	3010/6010(c)
Cadmium - EP Toxicity (1)	0.005	0.022	mg/l	03/13/90	3010/6010(c)
Chromium - EP Toxicity (1)	0.01	0.02	mg/l	03/13/90	3010/6010(c)
Lead - EP Toxicity (1)	0.1	ND	mg/l	03/13/90	3010/6010(c)
Mercury - EP Toxicity (1)	0.0004	ND	mg/l	03/15/90	7470(c)
Selenium - EP Toxicity (1)	0.2	ND	mg/l	03/13/90	3010/6010(c)
Silver - EP Toxicity (1)	0.02	0.04	mg/l	03/13/90	3005/6010(c)

Notes: ND = Below minimum detectable level (MDL)
Soil/solid samples based on sample dry weight.
Sample extracted 03/08/90
Mercury digested 03/14/90

(1) Sample was evaluated by EPA Method 1310, EP Toxicity, as described in reference (c).

Client: Clean Harbors of Connecticut
Sample I.D.: ARC-LEFT
Sample Type: Soil

CHAS Lab #: 9003060-02M
Date Received: 03/07/90

Polychlorinated Biphenyls (PCB's)
by EPA Method 3550/8080

Extraction Date: 03/07/90
Analysis Date: 03/08/90

Parameter	MDL	Concentration	Units
PCB - Aroclor 1016	0.1	ND	mg/kg
PCB - Aroclor 1221	0.1	ND	mg/kg
PCB - Aroclor 1232	0.1	ND	mg/kg
PCB - Aroclor 1242	0.1	ND	mg/kg
PCB - Aroclor 1248	0.1	ND	mg/kg
PCB - Aroclor 1254	0.1	ND	mg/kg
PCB - Aroclor 1260	0.1	ND	mg/kg

Notes: ND = Below minimum detectable level (MDL)
Soil/solid sample results based on sample dry weight

CleanHarbors

QUALITY CONTROL

REPORT OF ANALYSIS

CHAS LAB. NO. 9003060

The attached quality control data was generated during the analysis of these samples. The sample data has been corrected for analytes found in the blank (if any). Corrections were performed in accordance with the procedures as stated in the Clean Harbors Analytical Laboratory QA/QC Manual and pertinent SOP's, which are available for review. This data is submitted for informational purposes only.

Clean Harbors

Client: Clean Harbors of Connecticut

CHAS Lab #: 9003060

Volatile Organic Analysis Blank - System 1
by EPA Method 624 (ref. f)

Analysis Date: 03/07/90

Parameter	MDL*	Conc.*	Parameter	MDL*	Conc.*
Priority Pollutant Compounds:			1,1,2-Trichloroethane	5	ND
Chloromethane	10	ND	trans-1,3-Dichloropropene	5	ND
Bromomethane	10	ND	2-Chloroethylvinyl Ether	10	ND
Vinyl Chloride	10	ND	Bromoform	5	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	5	ND
Methylene Chloride	5	ND	Tetrachloroethene	5	ND
Trichlorofluoromethane	5	ND	Toluene	5	ND
1,1-Dichloroethene	5	ND	Chlorobenzene	5	ND
1,1-Dichloroethane	5	ND	Ethylbenzene	5	ND
trans-1,2-Dichloroethene	5	ND			
Chloroform	5	ND	**Hazardous Substance List Compounds:**		
1,2-Dichloroethane	5	ND	Acetone	20	ND
1,1,1-Trichloroethane	5	ND	Carbon Disulfide	10	ND
Carbon Tetrachloride	5	ND	2-Butanone	20	ND
Bromodichloromethane	5	ND	Vinyl Acetate	10	ND
1,2-Dichloropropane	5	ND	4-Methyl-2-Pentanone	5	ND
cis-1,3-Dichloropropene	5	ND	2-Hexanone	5	ND
Trichloroethene	5	ND	Styrene	5	ND
Benzene	5	ND	Total Xylenes	5	ND
Dibromochloromethane	5	ND			
			Additional Compounds:		
			Dibromoethane (EDB)	5	ND
			Methyl-t-Butylether (MTBE)	10	ND

Notes: ND = Below minimum detectable level (MDL)
* = ug/l

QA/QC

Surrogate Recoveries:		Surrogate Acceptance Criteria: Water	Soil
1,2-Dichloroethane-D4:	79%	76-114%	70-121%
Toluene-D8:	107%	88-110%	81-117%
p-Bromofluorobenzene:	93%	86-115%	74-121%

Client: Clean Harbors of Connecticut

CHAS Lab #: 9003060

BLANK ANALYSIS

Parameter	MDL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Petroleum Hydrocarbon Oil & Grease by IR	10	ND	03/08/90	03/08/90	503D/503E,B (b)

Notes: ND = Below minimum detectable level (MDL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors of Connecticut

CHAS Lab #: 9003060

Polychlorinated Biphenyls (PCB's) Blank

By EPA Method 3550/8080 (ref. c)

Extraction Date: 03/07/90
Analysis Date: 03/13/90

Parameter	MDL*	Conc.*
PCB - Aroclor 1016	0.1	ND
PCB - Aroclor 1221	0.1	ND
PCB - Aroclor 1232	0.1	ND
PCB - Aroclor 1242	0.1	ND
PCB - Aroclor 1248	0.1	ND
PCB - Aroclor 1254	0.1	ND
PCB - Aroclor 1260	0.1	ND

Note: ND = Below minimum detectable level (MDL)
* = mg/kg based on sample weight as received

QA/QC

Surrogate Recoveries: Hexabromobenzene 121%

Client: Clean Harbors of Connecticut

CHAS Lab #: 9003060

BLANK ANALYSIS

METALS

Parameter	MDL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Arsenic - EP Toxicity (1)	0.2	ND	03/12/90	03/13/90	3010/6010(c)
Barium - EP Toxicity (1)	0.05	ND	03/12/90	03/13/90	3010/6010(c)
Cadmium - EP Toxicity (1)	0.005	ND	03/12/90	03/13/90	3010/6010(c)
Chromium - EP Toxicity (1)	0.01	ND	03/12/90	03/13/90	3010/6010(c)
Lead - EP Toxicity (1)	0.1	ND	03/12/90	03/13/90	3010/6010(c)
Mercury - EP Toxicity (1)	0.0004	ND	03/14/90	03/15/90	7470(c)
Selenium - EP Toxicity (1)	0.2	ND	03/12/90	03/13/90	3010/6010(c)
Silver - EP Toxicity (1)	0.02	ND	03/12/90	03/13/90	3005/6010(c)

Sample extracted on 03/08/90

Notes: ND = Below minimum detectable level (MDL)
* = mg/l
Soil/solid samples based on sample dry weight.

(1) Sample was evaluated by EPA Method 1310, EP Toxicity, as described in reference (c).

Clean Harbors

Clean Harbors Analytical, 325 Wood Rd., Braintree, MA. 02184 | CHAIN OF CUSTODY RECORD | Sample Custodian - (617) 849-6070 | Page 1 of 1

Client: CHI of Conn. Project Name: ~~[illegible]~~ US ARMY RESERVE - FAIRFIELD Project/P.O. #: C-3964 Date: 3/5/90

Report To: GLEN BIANCHI - CHI of Conn Address: 60 PETER CT. New Britain, CT 06051 Phone #: 203 224-7600

Invoice To: CHI of Conn Address: Same

Date Samples Collected: 3/1/90 by: G. BIANCHI Date Samples Received: 3/7/90

Airbill/Bill of Lading? Y N NOTE: Samples received unpreserved will be preserved upon arrival at CHAS. Samples were: (Preserved) Unpreserved

Sample I.D.	Sampling Information: Date	Time	Station Location	Sample Type	Analysis: 8240	TPH 8100	CB 70x 6 mm	1223	# of con.	Comments (Special instructions, cautions, etc.)	3/7/90 CHAS Sample #
ARC - Right	3/1	1400	tank excav.	SOIL	X	X	X	X	3		9003060 01A, M, L
ARC - LEFT	3/1	1400	tank excav.	SOIL	X	X	X	X	3		02A, M, L

Relinquished by: G. BIANCHI Date: 3-5-90 Time:

Received by: mail Date: Time:

Relinquished by: mail Date: 3-7-90 Time: 10:00am

Received by: Janet Swan Date: 3/7/90 Time: 10:30 am

	8240	TPH
VOA Vial		
Glass Bottle	X	X
Plastic Bot.		
Pres.		
Volume		

Preservation Key: A - Acidified with ____ B - Filtered, C - Sample (chilled), D - NaOH, E - Nathiosulfate, W - Sample Ambient, F - Other

REMARKS: (Sample storage, nonstandard sample bottles, special instructions)

* 8240, TPH, PCB are 24hr rush

A - EP 8 is 2 weeks

→ okay per Glenn B. 3/7

Standard laboratory turnaround time is 2 weeks form date of receipt. Accelerated turnaround may be assessed a surcharge. Accelerated turnaround requested: ____

Confirmed by: ____ Surcharge: ____

Location of samples: 10A, R3

Turnaround: 24 Hrs 48 Hrs 1 Week (2 Weeks) Other: ____

CHI 119

CleanHarbors

SAMPLE RECEIPT CHECK LIST

Client: CHCT

Project Name/No.: US Army Reserve IC-3964 CHAS Lab. No.: 900326

		Yes	No	N/A
1.	Were samples shipped? If Yes, please retain bill of lading.	✓		
	Notes:			
2.	Was Chain-Of-Custody present upon receipt of samples?	✓		
	Notes:			
3.	Was Chain-Of-Custody complete? If No, when was client contacted? _____ (date)	✓		
	Notes:			
4.	Was evidence seal/tape intact on outer package?	✓		
	Notes:			
5.	Were samples received chilled?	✓		
	Notes:			
6.	Were any samples received broken/leaking (improperly sealed)?		✓	
	Notes:			
7.	Were samples properly preserved?	✓		
	Notes:			
8.	Were Chain-Of-Custody evidence seal/tapes on samples?			✓
	Notes:			
9.	Any discrepancies between sample labels and Chain-Of-Custody records?		✓	
	Notes:			
10.	Were samples received within holding times?	✓		
	Notes: Close - should be by Surrogate problems			

Additional Comments:

Samples inspected and logged in by [signature] Date: 3-7-2

CleanHarbors

Method References

(a) "Methods for Chemical Analysis of Water and Wastes," Publication EPA-600/4-79-020, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, 1979, revised March 1983.

(b) "Standard Methods for the Examination of Water and Wastewater," 16th ed., American Public Health Association, American Water Works Association, Water Pollution Control Federation, Washington, D.C., 1985.

(c) "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods," 2nd ed., U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, D.C., July 1982.

(d) "The Determination of Polychlorinated Biphenyls in Transformer Fluid and Waste Oils," Publication EPA-600/4-81-045, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, 1981.

(e) "EPA-CLP Organic Analyses of Low and Medium Hazardous Waste Sample (Water and Soil) Procedures Revision," U.S. Environmental Protection Agency, July 1985.

(f) "Test Procedures for Analyses of Organic Pollutants," Code of Federal Regulations, Appendix A, Part 136, July ., 1985.

(g) "Measurement of Purgeable Organic Compounds in Drinking Water by Gas Chromatography/Mass Spectrometry," Method 524, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati.

(h) "Prescribed Procedures for Measurement of Radioactivity in Drinking Water," Publication EPA-600/4-80-032, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, August 1980.

(i) "Clean Harbors - Radiological Environmental Analytical Procedures," Clean Harbors Analytical Services, Braintree, MA, October 1985.

j) "Methods for Chlorinated Phenoxy Acid Herbicides in Industrial Effluents," MDQARL, Cincinnati, November 23, 1973.

(k) "Annual Book of Standards," Section 11: Water and Environmental Technology, Vols. 11.01-11.04, American Society for Testing and Materials, Philadelphia, 1983, 1984, 1985.

(l) "Methods for Benzidine, Chlorinated Organic Compounds, Pentachlorophenol and Pesticides in Water and Wastewater," U.S. Environmental Protection Agency, September 1978.

m) "Methods for Organochlorine Pesticides in Industrial Effluents," MDQARL, Environmental Protection Agency, Cincinnati, November 28, 1973.

(n) "Methods for Determination of Inorganic Substances in Water and Fluvial Sediments," Techniques of Water-Resources Investigation of the U.S. Geological Survey, Book 5, Chapter A-1, U.S. Department of the Interior, 1979.

(o) "Measurement of Trihalomethanes in Drinking Water by Gas Chromatography/Mass Spectrometry and Selected Ion Monitoring," Method 501.3, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati.

(p) "The Analysis of Trihalomethanes in Finished Waters by the Purge and Trap Method," U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati.

q) "The Analysis of Trihalomethanes in Drinking Water by Liquid/Liquid Extraction," U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati.

r) "Official Methods of Analysis," Association of Official Analytical Chemists, 14th ed., 1984.

(s) "Hach Handbook of Water Analysis," Hach Chemical Company, Loveland, CO, 1979.

t) H.M. Prichard and T.F. Gesell, "Rapid Measurement of Rn-222 Concentrations in Water with a Commercial Liquid Scintillation Counter," Health Physics Vol. 33, 1977, pp. 577-581.

(u) "Petroleum Products and Lubricants (I): D56-...660," Annual Book of ASTM Standards, Volume 5.01, American Society for Testing and Materials, Philadelphia, 1985.

v) "Petroleum Products and Lubricants (III): D2...-Latest: Catalysts," Annual Book of ASTM Standards, Volume 5.03, American Society for Testing and Materials, Philadelphia, 1985.

ANALYTICAL SERVICES, INC.
BEDFORD DIVISION
213 BURLINGTON ROAD, BEDFORD, MA 01730
(617) 275-6111

REPORT OF ANALYSIS

Clean Harbors of Kingston, Inc.
Connecticut Division
60 Peter Court
Britain, CT 06051

Project: FAIRFIELD ARMY RESERVE
P.O. #: C-3964

Date Received: 05/29/90
CHAS Lab #: 90X05226

Attn: Mr. Dave Gworek

Enclosed are the results for the sample(s) delivered to our laboratory on the date indicated above.

The methods listed represent those methodologies which were used to develop the best analytical techniques. Analytical results and quality assurance protocols are based on these guidelines. These meet the requirements for the reporting of results under the RCRA, NPDES and Safe Drinking Water Act regulations.

Clean Harbors Analytical Services has an active program of quality assurance and quality control. The program closely follows the guidance provided in the EPA Contract Laboratory Program Statement of Work (organic - 7/87 and inorganic - 7/85), the guidance provided in SW-846, and many other pertinent documents.

Should you have any questions concerning this work, please do not hesitate to contact me at the number above.

Please note that samples will be held for a period not to exceed 30 days from date of final report.

The information contained in this report is, to the best of my knowledge, accurate and complete.

Per/Date: Richard Ravenelle 6/4/90

Richard Ravenelle
Laboratory Manager

Connecticut Laboratory Certification Number PH-0674.

Client: Clean Harbors of Kingston, Inc.
Sample I.D.: COMP 1
Sample Type: Soil

CHAS Lab #: 90X05226-01U
Date Received: 05/29/90

Parameter	MDL	Result	Units	Analysis Date	Method Number and Reference
Petroleum Hydrocarbon Oil & Grease by IR	42	980	mg/kg	06/07/90	503D/503E-B(b)

Notes: ND = Below minimum detectable level (MDL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors of Kingston, Inc.
Sample I.D.: COMP 2
Sample Type: Soil

CHAS Lab #: 90X05226-02U
Date Received: 05/29/90

Parameter	MDL	Result	Units	Analysis Date	Method Number and Reference
Petroleum Hydrocarbon Oil & Grease by IR	42	1,800	mg/kg	06/07/90	503D/503E-B(b)

Notes: ND = Below minimum detectable level (MDL)
Soil/solid samples based on sample dry weight.

CleanHarbors

Client: Clean Harbors of Kingston, Inc.
Sample I.D.: COMP 1
Sample Type: Soil

CHAS Lab #: 90X05226-01M
Date Received: 05/29/90

Parameter	MDL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.19	ND	mg/kg	05/30/90	9012(c)
Flashpoint	--	>200	deg F	05/29/90	D1310-84(u)
pH	--	6.3	--	05/30/90	Mod.150.1(a)
Sulfide	21	ND	mg/kg	05/31/90	9030(c)
Total Solids	--	82.8	%	05/31/90	209F(b)

Notes: ND = Below minimum detectable level (MDL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors of Kingston, Inc.
Sample I.D.: COMP 1
Sample Type: Soil

CHAS Lab #: 90X05226-01M
Date Received: 05/29/90

Parameter	MDL	Result	Units	Analysis Date	Method Number and Reference
Arsenic - EP Toxicity (1)	0.04	ND	mg/l	06/01/90	3010/6010(c)
Barium - EP Toxicity (1)	0.002	0.071	mg/l	06/01/90	3010/6010(c)
Cadmium - EP Toxicity (1)	0.003	ND	mg/l	06/01/90	3010/6010(c)
Chromium - EP Toxicity (1)	0.004	0.049	mg/l	06/01/90	3010/6010(c)
Lead - EP Toxicity (1)	0.05	ND	mg/l	06/01/90	3010/6010(c)
Mercury - EP Toxicity (1)	0.0003	ND	mg/l	06/01/90	7470(c)
Selenium - EP Toxicity (1)	0.06	ND	mg/l	06/01/90	3010/6010(c)
Silver - EP Toxicity (1)	0.02	ND	mg/l	06/01/90	3005/6010(c)
Total Solids		82.8	%	05/31/90	209F(b)

Notes: ND = Below minimum detectable level (MDL)
Soil/solid samples based on sample dry weight.
All metal results are blank corrected.
(1) Sample was evaluated by EPA Method 1310, EP Toxicity, as described in reference(c).

Client: Clean Harbors of Kingston, Inc.
Sample I.D.: COMP 1
Sample Type: Soil

CHAS Lab #: 90X05226-01M
Date Received: 05/29/90

Polychlorinated Biphenyls (PCB's)
by EPA Method 3550/8080

Extraction Date: 05/30/90
Analysis Date: 05/31/90

Parameter	MDL	Concentration	Units
PCB - Aroclor 1016	0.2	ND	mg/kg
PCB - Aroclor 1221	0.2	ND	mg/kg
PCB - Aroclor 1232	0.2	ND	mg/kg
PCB - Aroclor 1242	0.2	ND	mg/kg
PCB - Aroclor 1248	0.2	ND	mg/kg
PCB - Aroclor 1254	0.2	ND	mg/kg
PCB - Aroclor 1260	0.2	ND	mg/kg

Notes: ND = Below minimum detectable level (MDL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors of Kingston, Inc.
Sample I.D.: COMP 1
Sample Type: Soil

CHAS Lab #: 90X05226-01A
Date Received: 05/29/90

Volatile Organic Analysis - System A
by EPA Method 8240 (ref. c)

Analysis Date: 05/31/90

Parameter	MDL*	Conc.*	Parameter	MDL*	Conc.*
Chloromethane	2.0	ND	Bromoform	1.0	ND
Bromomethane	2.0	ND	1,1,2,2-Tetrachloroethane	1.0	ND
Vinyl Chloride	2.0	ND	Tetrachloroethene	1.0	ND
Chloroethane	2.0	ND	Toluene	1.0	ND
Methylene Chloride	1.0	ND	Chlorobenzene	1.0	ND
Trichlorofluoromethane	1.0	ND	Ethylbenzene	1.0	ND
1,1-Dichloroethene	1.0	ND	Total Xylenes	1.0	ND
1,1-Dichloroethane	1.0	ND			
trans-1,2-Dichloroethene	1.0	ND			
Chloroform	1.0	ND			
1,2-Dichloroethane	1.0	ND			
1,1,1-Trichloroethane	1.0	ND			
Carbon Tetrachloride	1.0	ND			
Bromodichloromethane	1.0	ND			
1,2-Dichloropropane	1.0	ND			
cis-1,3-Dichloropropene	1.0	ND			
Trichloroethene	1.0	ND			
Benzene	1.0	ND			
Dibromochloromethane	1.0	ND			
1,1,2-Trichloroethane	1.0	ND			
trans-1,3-Dichloropropene	1.0	ND			
2-Chloroethylvinyl Ether	2.0	ND			

Notes ND = Below minimum detectable level (MDL)
TR = Trace amount present but below MDL
* = mg/kg

No additional peaks observed in sample

QA/QC	Surrogate Recoveries:	Acceptance Criteria:	Water	Soil
	d4-1,2-Dichloroethane: 97 %		76-114	70-121
	d8-Toluene: 92 %		88-110	81-117
	p-Bromofluorobenzene: 96 %		86-115	74-121

CleanHarbors

Client: Clean Harbors of Kingston, Inc.
Sample I.D.: COMP 2
Sample Type: Soil

CHAS Lab #: 90X05226-02M
Date Received: 05/29/90

Parameter	MDL	Result	Units	Analysis Date	Method Number and Reference
Cyanide, Total	0.17	ND	mg/kg	05/30/90	9012(c)
Flashpoint	--	>200	deg F	05/29/90	D1310-84(u)
pH	--	6.2	--	05/30/90	Mod.150.1(a)
Sulfide	21	ND	mg/kg	05/31/90	9030(c)
Total Solids	--	84.0	%	05/31/90	209F(b)

Notes: ND = Below minimum detectable level (MDL)
Soil/solid samples based on sample dry weight.

Client: Clean Harbors of Kingston, Inc.
Sample I.D.: COMP 2
Sample Type: Soil

CHAS Lab #: 90X05226-02M
Date Received: 05/29/90

Parameter	MDL	Result	Units	Analysis Date	Method Number and Reference
Arsenic - EP Toxicity (1)	0.04	ND	mg/l	06/01/90	3010/6010(c)
Barium - EP Toxicity (1)	0.002	0.058	mg/l	06/01/90	3010/6010(c)
Cadmium - EP Toxicity (1)	0.003	ND	mg/l	06/01/90	3010/6010(c)
Chromium - EP Toxicity (1)	0.004	ND	mg/l	06/01/90	3010/6010(c)
Lead - EP Toxicity (1)	0.05	ND	mg/l	06/01/90	3010/6010(c)
Mercury - EP Toxicity (1)	0.0003	ND	mg/l	06/01/90	7470(c)
Selenium - EP Toxicity (1)	0.06	ND	mg/l	06/01/90	3010/6010(c)
Silver - EP Toxicity (1)	0.02	ND	mg/l	06/01/90	3005/6010(c)
Total Solids		84.0	%	05/31/90	209F(b)

Notes: ND = Below minimum detectable level (MDL)
Soil/solid samples based on sample dry weight.
All metal results are blank corrected.
(1) Sample was evaluated by EPA Method 1310, EP Toxicity, as described in reference(c).

Client: Clean Harbors of Kingston, Inc.
Sample I.D.: COMP 2
Sample Type: Soil

CHAS Lab #: 90X05226-02M
Date Received: 05/29/90

Polychlorinated Biphenyls (PCB's)
by EPA Method 3550/8080

Extraction Date: 05/30/90
Analysis Date: 05/31/90

Parameter	MDL	Concentration	Units
PCB - Aroclor 1016	0.2	ND	mg/kg
PCB - Aroclor 1221	0.2	ND	mg/kg
PCB - Aroclor 1232	0.2	ND	mg/kg
PCB - Aroclor 1242	0.2	ND	mg/kg
PCB - Aroclor 1248	0.2	ND	mg/kg
PCB - Aroclor 1254	0.2	ND	mg/kg
PCB - Aroclor 1260	0.2	ND	mg/kg

Notes: ND = Below minimum detectable level (MDL)
Soil/solid samples based on sample dry weight.

CleanHarbors

Client: Clean Harbors of Kingston, Inc.
Sample I.D.: COMP 2
Sample Type: Soil

CHAS Lab #: 90X05226-02A
Date Received: 05/29/90

Volatile Organic Analysis - System A
by EPA Method 8240 (ref. c)

Analysis Date: 05/30/90

Parameter	MDL*	Conc.*	Parameter	MDL*	Conc.*
Chloromethane	2.0	ND	Bromoform	1.0	ND
Bromomethane	2.0	ND	1,1,2,2-Tetrachloroethane	1.0	ND
Vinyl Chloride	2.0	ND	Tetrachloroethene	1.0	ND
Chloroethane	2.0	ND	Toluene	1.0	ND
Methylene Chloride	1.0	ND	Chlorobenzene	1.0	ND
Trichlorofluoromethane	1.0	ND	Ethylbenzene	1.0	ND
1,1-Dichloroethene	1.0	ND	Total Xylenes	1.0	ND
1,1-Dichloroethane	1.0	ND			
trans-1,2-Dichloroethene	1.0	ND			
Chloroform	1.0	ND			
1,2-Dichloroethane	1.0	ND			
1,1,1-Trichloroethane	1.0	ND			
Carbon Tetrachloride	1.0	ND			
Bromodichloromethane	1.0	ND			
1,2-Dichloropropane	1.0	ND			
cis-1,3-Dichloropropene	1.0	ND			
Trichloroethene	1.0	ND			
Benzene	1.0	ND			
Dibromochloromethane	1.0	ND			
1,1,2-Trichloroethane	1.0	ND			
trans-1,3-Dichloropropene	1.0	ND			
2-Chloroethylvinyl Ether	2.0	ND			

Notes ND = Below minimum detectable level (MDL)
TR = Trace amount present but below MDL
* = mg/kg

No additional peaks observed in sample

QA/QC	Surrogate Recoveries:	Acceptance Criteria:	Water	Soil
	d4-1,2-Dichloroethane: 98 %		76-114	70-121
	d8-Toluene: 99 %		88-110	81-117
	p-Bromofluorobenzene: 94 %		86-115	74-121

CleanHarbors

PC 05-30-90

Clean Harbors Analytical, 325 Wood Rd., Braintree, MA. 02184 | CHAIN OF CUSTODY RECORD | Sample Custodian - (617) 849-6070 | Page 1 of 1

Client: CHL of Conn. Project Name: FAIRFIELD Army Reserve Project/P.O. #: C-3964 Date: 5/25/90

Report To: CHL of Conn Address: 60 Dexter Court New Britain CT Phone #: 203-224-7600

Invoice To: same Address: same

Date Samples Collected: 5/25/90 by: G. Bianchi Date Samples Received:

Airbill/Bill of Lading? Y N NOTE: Samples received unpreserved will be preserved upon arrival at CHAS. Samples were: Preserved in field Unpreserved

Sample I.D.	Sampling Information: Date	Time	Station Location	Sample Type	Analysis: SP. for metals 1310	Flash Pt. 1010	PCB 8080	8240	Corrosivity 9040	Sulfide Reactivity	Cyanide Reactivity	# of con.	Comments (Special instructions, cautions, etc.)	CHAS Sample #
														90V05226
Comp. 1	5/25	10:00		Soil	X	X	X	X	X	X	X		volatile results must be in ppm.	01A 01
Comp. 2	5/25	10:25		Soil	X	X	X	X	X	X	X			02A 02

Relinquished by: G Bianchi Date: 5/25/90 Time: 1pm

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

VOA Vial	
Glass Bottle	4
Plastic Bot.	
Pres.	
Volume	

Preservation Key: A - Acidified with ____
B - Filtered, C - Sample chilled, D - NaOH,
E - NaThiosulfate, W - Sample Ambient, F - Other

REMARKS: (Sample storage, nonstandard sample bottles, special instructions)
02 x 1 l glass jars for each composite sample. 1 to be used for volatiles
TCLP R3 R2 R1
By Friday 6/1

Standard laboratory turnaround time is 2 weeks form date of receipt. Accelerated turnaround may be assessed a surcharge. Accelerated turnaround requested: G Bianchi
Confirmed by: Surcharge:

Location of samples:

Turnaround: 24 Hrs 48 Hrs (1 Week) 2 Weeks Other:

CHI 119

CleanHarbors

SAMPLE RECEIPT CHECK LIST

Client: CH-Texas

Project Name/No.: Fairfield Arm Disposal CHAS Lab. No.: 9005226

		Yes	No	N/A
1.	Were samples shipped? If Yes, please retain bill of lading.	✓		
	Notes:			
2.	Was Chain-Of-Custody present upon receipt of samples?	✓		
	Notes:			
3.	Was Chain-Of-Custody complete? If No, when was client contacted? _____ (date)	✓		
	Notes:			
4.	Was evidence seal/tape intact on outer package?	✓		
	Notes:			
5.	Were samples received chilled?		✓	
	Notes:			
6.	Were any samples received broken/leaking (improperly sealed)?		✓	
	Notes:			
7.	Were samples properly preserved?	✓		
	Notes:			
8.	Were Chain-Of-Custody evidence seal/tapes on samples?	✓		
	Notes:			
9.	Any discrepancies between sample labels and Chain-Of-Custody records?		✓	
	Notes:			
10.	Were samples received within holding times?	✓		
	Notes:			

Additional Comments:

Samples inspected and logged in by C Johnson Date: 5/29/90

CleanHarbors

Method References

(a) "Methods for Chemical Analysis of Water and Wastes," Publication EPA-600/4-79-020, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, 1979, revised March 1983.

(b) "Standard Methods for the Examination of Water and Wastewater," 16th ed., American Public Health Association, American Water Works Association, Water Pollution Control Federation, Washington, D.C., 1985.

(c) "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods," 2nd ed., U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, D.C., July 1982.

(d) "The Determination of Polychlorinated Biphenyls in Transformer Fluid and Waste Oils," Publication EPA-600/4-81-045, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, 1981.

(e) "EPA-CLP Organic Analyses of Low and Medium Hazardous Waste Sample (Water and Soil) Procedures Revision," U.S. Environmental Protection Agency, July 1985.

(f) "Test Procedures for Analyses of Organic Pollutants," Code of Federal Regulations, Appendix A, Part 136, July 1, 1985.

(g) "Measurement of Purgeable Organic Compounds in Drinking Water by Gas Chromatography/Mass Spectrometry," Method 524, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati.

(h) "Prescribed Procedures for Measurement of Radioactivity in Drinking Water," Publication EPA-600/4-80-032, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, August 1980.

(i) "Clean Harbors Radiological Environmental Analytical Procedures," Clean Harbors Analytical Services, Braintree, MA, October 1985.

(j) "Methods for Chlorinated Phenoxy Acid Herbicides in Industrial Effluents," MDQARL, Cincinnati, November 23, 1973.

(k) "Annual Book of Standards," Section 11: Water and Environmental Technology, Vols. 11.01-11.04, American Society for Testing and Materials, Philadelphia, 1983, 1984, 1985.

(l) "Methods for Benzidine, Chlorinated Organic Compounds, Pentachlorophenol and Pesticides in Water and Wastewater," U.S. Environmental Protection Agency, September 1978.

(m) "Methods for Organochlorine Pesticides in Industrial Effluents," MDQARL, Environmental Protection Agency, Cincinnati, November 28, 1973.

(n) "Methods for Determination of Inorganic Substances in Water and Fluvial Sediments," Techniques of Water-Resources Investigation of the U.S. Geological Survey, Book 5, Chapter A-1, U.S. Department of the Interior, 1979.

(o) "Measurement of Trihalomethanes in Drinking Water by Gas Chromatography/Mass Spectrometry and Selected Ion Monitoring," Method 501.3, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati.

(p) "The Analysis of Trihalomethanes in Finished Waters by the Purge and Trap Method," U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati.

(q) "The Analysis of Trihalomethanes in Drinking Water by Liquid/Liquid Extraction," U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati.

(r) "Official Methods of Analysis," Association of Official Analytical Chemists, 14th ed., 1984.

(s) "Hach Handbook of Water Analysis," Hach Chemical Company, Loveland, CO, 1979.

(t) H.M. Prichard and T.F. Gesell, "Rapid Measurement of Rn-222 Concentrations in Water with a Commercial Liquid Scintillation Counter," Health Physics, Vol. 33, 1977, pp. 577-581.

(u) "Petroleum Products and Lubricants (I): D56-D1660," Annual Book of ASTM Standards, Volume 5.01, American Society for Testing and Materials, Philadelphia, 1985.

(v) "Petroleum Products and Lubricants (III): D2981-Latest: Catalysts," Annual Book of ASTM Standards, Volume 5.03, American Society for Testing and Materials, Philadelphia, 1985.

Post-Removal Report
Underground Storage Tank Closure
1,000 Gallon Waste Oil
United States Army Reserve Center
Fairfield, Connecticut

ATEC File: 37.04.483
Contract No. DAK31-91-D-0015

Prepared for:

United States Army
Directorate of Contracting
Building 227
Fort Devens, Massachusetts

Attn: Mr. Robert J. Kruzewski,
Contracting Officer

January 2, 1992

ATEC Environmental Consultants
Division of ATEC Associates, Inc.
62 Accord Park Drive
Norwell, Massachusetts 02061
[617] 878-6200, FAX # [617] 871-6781

January 2, 1992

Mr. Robert J. Kruzewski, Contracting Officer
United States Army
Directorate of Contracting
Building 227
Fort Devens, Massachusetts 01433-5340

RE: Post-Removal Report
Underground Storage Tank Closure
1,000 Gallon Waste Oil
United States Army Reserve Center
180 High Street, Fairfield, Connecticut
ATEC File: 37.04.483

Mr. Kruzewski:

Attached is a report by ATEC Associates, Inc. (ATEC), detailing the results of the closure of one (1) 1,000 gallon, single wall, steel Underground Storage Tank (UST) referenced as UST No. 0062 located at property known as Army Reserve Center, 180 High Street, Fairfield, Connecticut. The purpose of the closure was to excavate the UST, to evaluate the potential for the presence of oil and hazardous material at the site.

ATEC appreciates the opportunity to be of service in this matter. If you have any questions or comments, please do not hesitate to contact our office.

Sincerely,

ATEC Associates, Inc.

Mark E. Baldi
Quality Control Manager

James B. O'Brien
Group Manager

Marta J. Nover
Environmental Consulting
Division Manager

EXECUTIVE SUMMARY

On December 5, 1991 ATEC closed one (1) 1,000 gallon, single wall, steel Underground Storage Tank (UST) located at property known as Army Reserve Center, 180 High Street, Fairfield,, Connecticut. The purpose of the closure was to excavate the UST, evaluate the potential for the presence of oil and hazardous material at the site.

ATEC's conclusions are as follows:

1. Upon excavation and removal, the tank was observed to be in good condition with no signs of perforation, punctures, or severe corrosion.

2. Ground water was not encountered within the excavation.

3. Visual inspection of the excavation revealed no stained soil.

4. Ten (10) soil samples were obtained from the excavation for field screening and field analysis utilizing a PID and NDIR Analysis respectively. PID readings ranged from 10.0 ppm to 30 ppm. NDIR results ranged from 19.6 ppm to 65.2 ppm.

5. Two (2) soil samples were obtained from the excavation for laboratory analysis for TPH utilizing USEPA Extraction Method 9071 and Analysis Method (draft) 9073. Analytical results for LSS-1 obtained from the bottom of the excavation revealed 92 ppm TPH. Analytical results for LSS-2 obtained from the bottom of the excavation revealed 74 ppm TPH.

ATEC's recommendations are as follows:

1. Advance exploratory soil borings and install ground monitoring wells to determine the vertical and horizontal extent of contamination.

2. Continuous split spoon sampling and analysis will be conducted utilizing field analysis techniques, i.e. Photoionization Detector and Non-Dispersive Infrared Analysis, and laboratory analysis to document soil contamination levels as specified in the Hazardous Materials Containment Plan. Soils associated with waste oil should be laboratory analyzed for Total Petroleum Hydrocarbons, Volatile Organic Compounds, PCBs, 13 TCLP Metals, flashpoint and corrosivity for disposal purposes.

TABLE OF CONTENTS

POST-REMOVAL REPORT

United States Army Reserve Center
180 High Street
Fairfield, Connecticut
ATEC Project No. 37.04.483

1.0 INTRODUCTION

This Post-Removal Report details the results of the closure of one (1) 1,000 gallon, single wall, steel, Underground Storage Tank (UST) referenced as UST No. 0062, located at property known as Army Reserve Center, 180 High Street, Fairfield, Connecticut. The purpose of the closure was to excavate the UST, evaluate the potential for the presence of oil and hazardous material at the site. The closure of this UST was conducted on December 5, 1991.

The basic Project Work Scope included:

1. Procurement/administration of all federal, state and local permits, manifests, regulations, etc., associated with UST system closure.

2. Excavating, venting, cleaning, transporting, and disposing of one (1) 1,000 gallon UST by appropriately licensed contractors/facilities.

3. Disposal of UST slops at a licensed facility.

4. Field screening and analysis of soil in the excavations by Photoionizing Detector (PID) and field analyzed with a portable Non-Dispersive Infrared (NDIR) Analyzer, to identify evidence release of oil and hazardous materials from the UST, if any.

5. Laboratory Analysis of soil sampled from the UST excavation by a US EPA certified laboratory for Total Petroleum Hydrocarbons (USEPA Extraction Method 9071 and Analysis Method (draft) 9073.

6. Preparation of a Post-Removal Report, to include assimilation of information gathered; major findings; and conclusions.

2.0 SUBSURFACE STORAGE TANK EXCAVATION AND REMOVAL

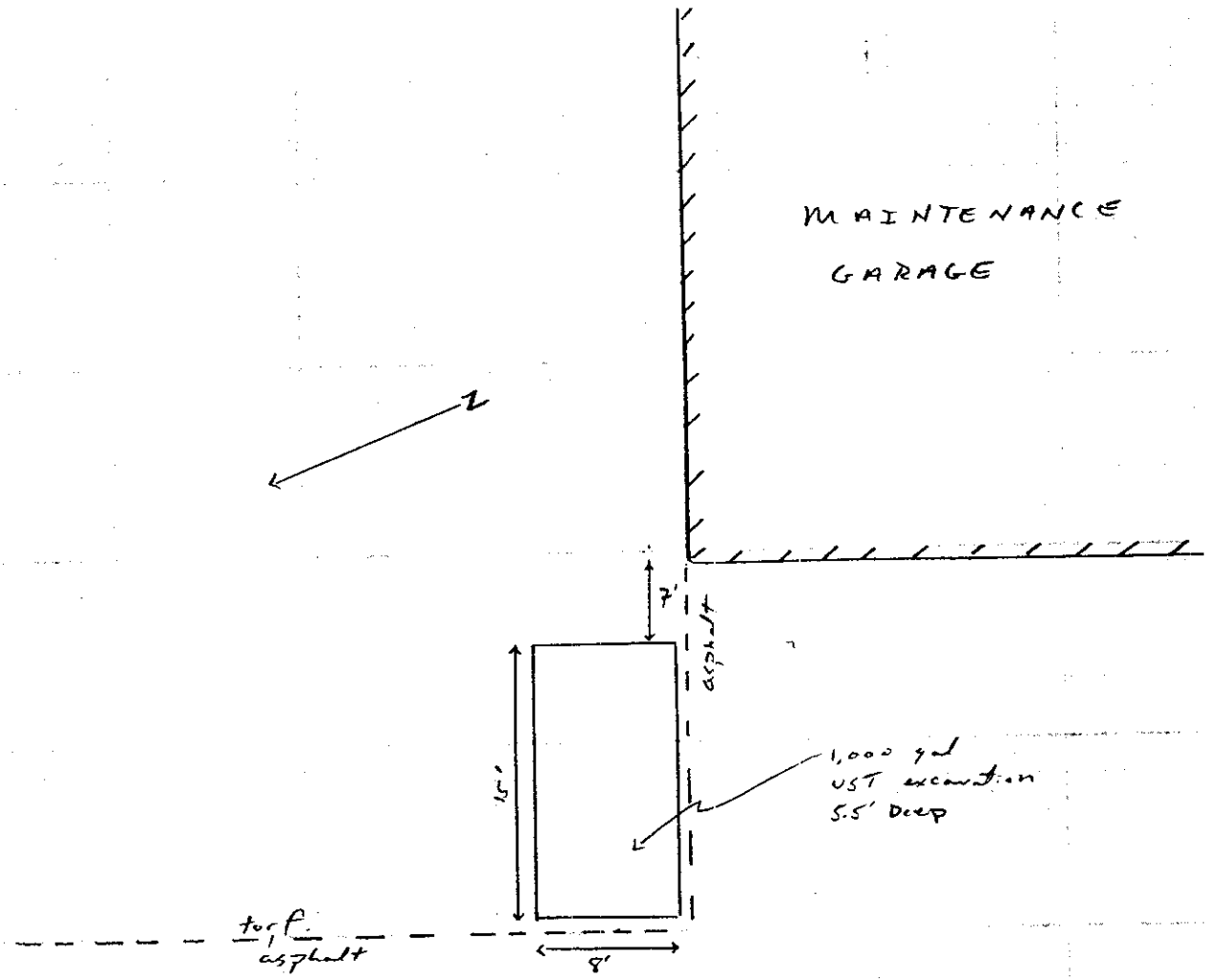
On December 5, 1991, one (1), 1,000 gallon, subsurface, waste oil, storage tank was excavated and removed from the site. The UST was located near northwest corner of the maintenance garage building. Site topography is sloped downgradient to the southwest.

The tank was observed to be in good condition with no signs of perforations, punctures, or severe corrosion. The tank was covered by approximately 1.5 feet of soil.

Soils in the excavation consisted primarily of silty, fine to coarse sand and gravel fill. The bottom of the excavation was approximately 5.5 feet below grade. Ground water was not encountered. No visible contamination of soil was observed.

Associated piping was drained, and tank connections were removed. UST No. 0062 was estimated to contain 88 gallons of waste oil. The waste oil was removed on December 5, 1991, and transported to a licensed T.S.D.F. (Cyn Oil). Tank openings were capped, and the tank was removed from the excavation. The tank was observed to be in good condition with no perforations, punctures, or severe corrosion. Following venting of the tank, an access way was cut in the end of the tank to allow entry for cleaning. It was then entered and vacuumed/wiped clean of any residual slops.

The scrap tank was removed from the site on December 5, 1991 and disposed at Alderman and Dow, located in New Haven, Connecticut.



UST LOCATION PLAN

1,000 gallon UST relative to maintenance garage at:
US Army Reserve Center
Fairfield, Connecticut

PROJECT: 37.07.483

NOT TO SCALE

FIGURE: 1

ATEC

3.0 SAMPLING AND ANALYSIS PLAN

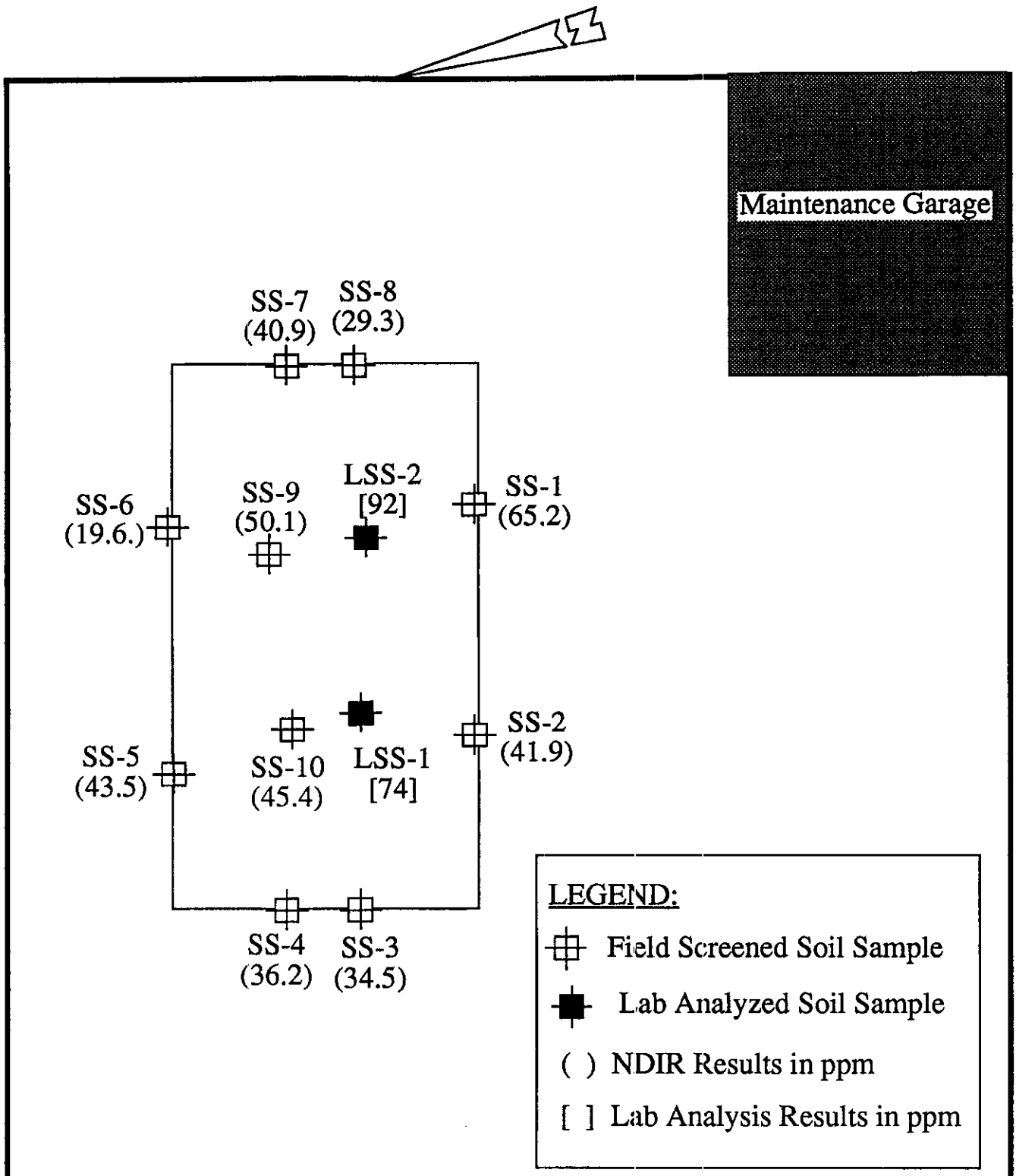
Ten (10) soil samples were obtained from the excavation for field screening with a Photoionizing Detector (PID) and field analyzed with a Non-Dispersive Infrared (NDIR) Analyzer. The PID field screening for Volatile Organic Compound (VOC) vapors was conducted with an HNu photoionizer utilizing the jar headspace screening protocol outlined in the Hazardous Materials Containment Plan. The NDIR field screening for Total Petroleum Hydrocarbons (TPH) was conducted with a Horiba OCMA 220, utilizing the procedures outlined in the Hazardous Materials Containment Plan.

Eight (8) of the samples (SS-1 to SS-8) were obtained from the excavation walls at a depth of approximately 1.5 - 4.5 feet below grade. Two (2) of the samples (SS-9 and SS-10) were obtained from the bottom of the excavation at a depth of approximately 5.5 feet below grade. Sampling locations for the excavation are depicted on the Sampling Schematic attached as Figure 2.

Two (2) soil samples (LSS-1 & LSS-2) were obtained from the bottom of the excavation for laboratory analysis. These samples were analyzed for TPH utilizing USEPA Extraction Method 9071 and Analysis Method (draft) 9073. Sampling locations are depicted on the Sampling Schematic attached as Figure 2. Chain of custodies are included in Appendix E.

4.0 ANALYTICAL RESULTS

The results from analysis with the Photoionization Detector (PID) and the Non-Dispersive Infrared (NDIR) Analyzer of the ten (10) samples obtained from the excavation are as follows:



SAMPLING SCHEMATIC

1,000 gallon UST excavation at:
US Army Reserve Center
Fairfield, Connecticut

PROJECT: 37.04.483

NOT TO SCALE

FIGURE: 2

ATEC©

TABLE 1 - PID AND NDIR RESULTS

Sample No.	PID (ppm)	NDIR(ppm)
SS-1	10.0	65.2
SS-2	22.0	41.9
SS-3	15.0	34.5
SS-4	30.0	36.2
SS-5	20.0	43.5
SS-6	22.0	19.6
SS-7	25.0	40.9
SS-8	30.0	29.3
SS-9	30.0	50.1
SS-10	10.2	45.4

N.D. = None Detected

Laboratory analytical results of the two (2) soil samples obtained from the bottom of the excavation revealed 92 ppm TPH for LSS-1, and 74 ppm TPH for LSS-2. See Appendix D.

5.0 CONCLUSIONS AND RECOMMENDATIONS

ATEC's conclusions are as follows:

1. Upon excavation and removal, the tank was observed to be in good condition with no signs of perforation, punctures, or severe corrosion.

2. Ground water was not encountered within the excavation.

3. Visual inspection of the excavation revealed no stained soil.

4. Ten (10) soil samples were obtained from the excavation for field screening and field analysis utilizing a PID and NDIR Analysis respectively. PID readings ranged from 10.0 ppm to 30.0 ppm. NDIR results ranged from 19.6 ppm to 65.2 ppm.

5. Two (2) soil samples were obtained from the excavation for laboratory analysis for TPH utilizing USEPA Extraction Method 9071 and Analysis Method (draft) 9073. Analytical results for LSS-1 obtained from the bottom of the excavation revealed 92 ppm TPH. Analytical results for LSS-2 obtained from the bottom of the excavation revealed 74 ppm TPH.

ATEC's recommendations are as follows:

1. Advance exploratory soil borings and install ground water monitoring wells to determine the vertical and horizontal extent of contamination.

2. Continuous split spoon sampling and analysis will be conducted utilizing field analysis techniques, i.e. Photoionization Detector and Non-Dispersive Infrared Analysis, and laboratory analysis to document soil contamination levels as specified in the Hazardous Materials Containment Plan. Soils associated with waste oil should be laboratory analyzed for Total Petroleum Hydrocarbons, Volatile Organic Compounds, PCBs, 13 TCLP Metals, flashpoint and corrosivity for disposal purposes.

6.0 CERTIFICATIONS & QUALIFICATIONS

This report is addressed to Mr. Robert J. Kruzewski, Contracting Officer of Directorate of Contracting, United States Army, Fort Devens with respect to property known as United States Army Reserve Center, 180 High Street, Fairfield,, Connecticut (the site).

ATEC certifies that to the best of their professional knowledge, information and belief:

The investigation of the site described in the report was performed by James M. Regan, Project Engineer; and James B. O'Brien, Group Manager (site investigators) who are qualified to make the investigations and formulate the opinions herein set forth.

The site investigators are familiar with the current provisions of the State of Connecticut Regulations for the Control of Non-Residential Underground Storage and Handling of Oil and Petroleum Liquids (22A - 449D -1).

The site investigators are knowledgeable regarding the types of industrial, manufacturing, commercial or other processes or operations which might reasonably be expected to generate, use, treat, store or dispose of oil or hazardous material.

The site investigators have reviewed the recent history of the site and have considered the potential for the generation, use, treatment, storage, or disposal of oil or hazardous material by (a) the uses presently associated with the site and (b) to the extent ascertainable by inquiry, as noted.

In December 1991, the site investigators studied the site and, except as herein qualified, the areas in the vicinity of the site to assess the possible presence of oil and hazardous material at the site.

The following qualifications apply to ATEC's opinion:

Our professional services have been performed, our findings obtained and our recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. This warranty is in lieu of all other warranties either expressed or implied. This company is not responsible for the independent conclusions, opinions or recommendations made by others based on the field exploration and laboratory test data presented in this report.

The work performed in conjunction with this assessment and the data developed are intended as a description of available information at the dates and locations given. This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated.

APPENDIX A: PHOTOGRAPHIC DOCUMENTATION

U.S. Army Reserve Center,
Fairfield, Connecticut
ATEC File No. 37.04.483

A-1: Removed tank.

A-2: Excavation as viewed from southwest, facing northeast.

A-1

A-2

PHOTO DOCUMENTATION

1,000 gallon UST excavation at:
US Army Reserve Center
Fairfield, Connecticut

PROJECT: 37.04.483

ĀTEC

UST CLOSURE O/C CHECK LIST	TANK #GB - REMOVAL - 1000 GAL W.O. TANK / 180 HIGH ST FAIRFIELD CT.			
CONST -	DL, BA	CONSUL. - JMR	12/5/91	
DEFINABLE FEATURE	DATE	TIME	MEASUREMENTS	NOTES
Calibrate PID & LEL/O2 meters	12/5/91	08:30		
Drain & flush piping & pumps	12/5/91	✓	Removed Remote Fill inside Building. Removed Vent Line	
Excavate to top of tank		08:30		
Vent tank note LEL/O2 levels & times			LEL O2	
		T1: 09:30	30.0 0%	
		T2: 09:31	1% 20.7	
		T3: 09:33	2% 20.5	
		T4: 09:35	3% 20.2	
		T5: 09:37	4% 20.2	
		T6: 09:39	5% 20.2	
		T7: 09:49	5% 20.2	
		T8: 09:55	0% 20.9%	TANK VENTED
		T9:	" "	
		T10:	" "	
		T11:	" "	
		T12: 10:30	" "	
Pump & clean tank:		9:55-10:30	55 gal. liquid	
Note quantities liquid (gal) & sludge (lbs)			___ lbs. sludge	
Remove all tank connections, and cap openings	12/5/91	✓		
Excavate soils to free tank		✓		
Segregate stained soils: Note PID readings		✓	PID (ppm) NDIR (ppm)	SEE ATTACHED PID
(if >10 ppm NDIR also)				SHEET

UST CLOSURE O/C CHECK LIST	UST FGZ	FAIRF	FELD, CT 1000 GAL STEEL WASTE OIL 12/5/91	
			CONST: DL, BA CONSUL: UMR	
DEFINABLE FEATURE	DATE	TIME	MEASUREMENTS	NOTES
Remove tank, piping, pumps, and hardware.	12/5/91		Photographic Descriptions:	
Photograph excavation; note descriptions.			Photo 1:	
			Photo 2:	
			Photo 3:	
			Photo 4:	
			Photo 5:	
			Photo 6:	
Place tank at safe distance from excavation		✓		
Secure tanks transport off-site		12:00		
Obtain 10 soil samples from			PID (ppm) NDIR (ppm)	Sample locations:
excavation walls/bottom: Note PID/NDIR			SS1: 10.0 65.7	SEE SCHEMATIC
readings and sample locations.			SS2: 22.0 41.9	
			SS3: 15.0 34.5	
			SS4: 30.0 36.2	
			SS5: 20.0 43.5	
			SS6: 22.0 19.6	
			SS7: 25.0 40.9	
			SS8: 30.0 29.3	
			SS9: 30.0 50.1	
			SS10: 10.2 45.4	
Obtain 2 soil samples & 1 water samples				Sample Locations:
for laboratory analysis. Note sample locations.			22.0	LSS1: BOT / SEE SCHEM.
			33.0 / SLIGHT ODOR	LSS2: BOT / SEE SCHEM.
				LWS1: NONE
			BLANK = 22.0	

UST CLOSURE O/C CHECK LIST	UST #62		1,000 GAL Waste Oil Removal, Fair Field, C.T. Const: O.L., B.A. Consul JMR	
DEFINABLE FEATURE	DATE	TIME	MEASUREMENTS	NOTES
				7½ tons of backfill
Backfill excavation (if clean):	12/5/91			Backfill description:
Note amount & type of backfill	12/5/91	13:30	13X7 TANK Hole	5yds Processed GRAVEL
Close open excavation (if applicable)	12/5/91	13:30		
Restore surface and rope off	12/5/91	✓		
Remove rubbish/debris	12/5/91	✓		
Transport hazardous material off-site:				Amount Classification
Note amount/classification				

OCMA Data Sheet

Operator Name: Bob L. **Date:** 12/19 ***EBI* Project Number:** _____

Calibration

	First Reading		Second Reading		Third Reading	
	Initial	Final	Initial	Final	Initial	Final
Zero Calibration	0.0	0.0	0.0	0.0	0.0	0.0
Span Calibration						
Zero Calibration						

Span Check: 3.13

Testing Fairfield QT Unit #67

Sample ID#	Weight Gross	Weight Tare	First Approach F-113	First Approach Sample	Second Approach F-113	Second Approach Sample	Readings First	Readings Second	Readings Third	
SS-1	57.2	75.6	17.5 ml	3 ml	17.5 ml	3 ml	1.9	1.9	2.1	65.2
SS-2	83.0	74.7	17.5 ml	3 ml	17.5 ml	3 ml	1.7	1.6	1.7	41.9
SS-3	85.4	75.9	17.5 ml	3 ml	17.5 ml	3 ml	1.4	1.5	1.6	34.5
SS-4	84.4	75.9	17.5 ml	3 ml	17.5 ml	3 ml	1.4	1.5	1.5	36.2
SS-5	85.9	76.0	17.5 ml	3 ml	17.5 ml	3 ml	1.7	2.0	2.1	43.5
SS-6	80.8	73.5	17.5 ml	3 ml	17.5 ml	3 ml	0.6	0.6	0.7	19.6
SS-7	83.7	75.7	17.5 ml	3 ml	17.5 ml	3 ml	1.6	1.5	1.6	40.9
SS-8	81.7	74.5	17.5 ml	3 ml	17.5 ml	3 ml	1.2	1.1	1.2	29.3
SS-9	89.1	76.0	17.5 ml	3 ml	17.5 ml	3 ml	2.9	3.0	3.2	50.1
SS-10	93.1	74.5	17.5 ml	3 ml	17.5 ml	3 ml	2.8	2.9	2.9	45.4

RECEIVED DEC 2 4 1991

In Response To The Future

December 20, 1991

Mr. Mark Baldi
ATEC Environmental Consultants
62 Accord Park Drive
Norwell, MA 02061

Dear Mr. Baldi:

Tabulated below are the laboratory test results for the analyses of samples from several of your Tank pull projects.

Atec project ID	Ess Sample ID	Atec Sample ID	TPHIR
Worcester, MA	915454-01	LSS1-500	12 mg/Kg
	915454-02	LSS2-500	41 "
	915454-03	LSS3-500	19 "
Roslindale, MA	915484-01	SS 13	<10 "
	915484-02	SS 14	332 "
Lawrence, MA	915487-01	LSS1-1000	142 "
	915487-02	LSS2-1000	46 "
	915487-03	LSS3-1000	69 "
Portsmouth, NH	915490-01	WS 13	<1 mg/L
	915490-02	SS 1.3	<10 mg/Kg
	915490-03	SS 10.3	<10 "
Pittsfield, MA	915497-01	LSS1	23 "
	915497-02	LSS2	19 "
	915497-03	LSS3	20 "
Chicopee, MA	915510-01	LSS1	14 "
	915510-02	LSS2	28 "
	915510-03	LSS3	24 "
Milford, CT	915525-01	LSS1	1080 "
	915525-02	LSS2	30 "
Fairfield, CT	915526-01	LSS1	92 "
	915526-02	LSS2	74 "
Brockton	915528-01	LSS1	<10 "
	915528-02	LSS2	<10 "
	915528-03	LWS1	<1 mg/L

Environmental Science Services
532 Atwells Avenue, Providence, Rhode Island 02909 (401) 421-0398 Fax (401) 421-5731

ATEC Environmental Consultants
62 Accord Park Drive
Norwell, MA 02061
December 20, 1991

Atec project ID	Ess Sample ID	Atec Sample ID	TPHIR
Springfield, MA	915537-01	LSS1	191 mg/Kg
	915537-02	LSS2	<10 "
	915537-03	LSS3	37 "
Windsor Lock, CT	915556-01	LSS1	42 "
	915556-02	LSS2	13 "
	915556-03	LSS3	28 "
Auburn, ME	915592-01	LRS-1	<10 "
	915592-02	LRS-2	<10 "
New Haven, CT	915593-01	LSS1	18 "
	915593-02	LSS2	12 "

If you have any questions please feel free to call.

Sincerely,

Dave Dickinson
Laboratory Manager

CHAIN OF CUSTODY RECORD

PROJ. NO. 32.07.481

PROJECT NAME [illegible] MULTI-SITE LIST #62 - FAIRFIELD, CT

CLIENT US ARMY

LAB PROJ. NO.

SAMPLERS: *(Signature)*

SAMPLING METHOD [illegible]

SAMPLE I.D. NO.	DATE	TIME	COMPOSITE	GRAB	WATER	SOIL	[illegible] SOIL	FILTERED	ACIDIFIED	ICED		NUMBER OF CONTAINERS	LAB I.D. NUMBER	VOLATILE ORGANICS	BTX & E	TOTAL HYDROCARBONS	PCB'S	E.P. TOXIC METALS	TOTAL METALS (8)	IGNITABILITY	TPH / [illegible]	8 [illegible]	SAMPLE LOCATION / REMARKS
LS51	12/5	11:30		X		X				X		1								X			
LD52	"	"		X		X				X		1								X			
WS51	"	10:00		X			X			X		1									X		
WL52	"	10:00		X			X			X		1					X						

ATEC Environmental Consultants
Division of ATEC Associates, Inc.
Cordage Park, Building 3
Route 3 A, Court Street
North Plymouth, Massachusetts 02360
(508) 747-3444

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
[illegible]	12/5 16:00				

Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)*	Date / Time	Project Manager / Phone #:

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE
One Winter Street
Boston, Massachusetts 02108

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator US EPA ID No.: CTR000242489 — Manifest Document No.: 30193
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: US ARMY Reserve Center, 180 High St, Fairfield, CT, 06430
4. Generator's Phone: 203 259-7814

5. Transporter 1 Company Name: CYN OIL CORPORATION
6. US EPA ID Number: MA0082303777

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address: CYN OIL CORPORATION, 1771 WASHINGTON STREET, STOUGHTON, MA 02072
10. US EPA ID Number: MA0082303777

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. WASTE PETROLEUM OILS N.O.S. COMBUSTIBLE LIQUID NA 1270	001	TT	88	G
b.				
c.				
d.				

J. Additional Descriptions for Materials Listed Above (Include physical state and hazard code.)
a. TANK CLEANING
b.

K. Handling Codes for Wastes Listed Above
a. T01
b.

15. Special Handling Instructions and Additional Information
24 Hr Emergency 617 344 0265

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name	Signature	Date (Month Day Year)
FRANK J. VERDONE	Frank J. Verdone	12 05 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
Richard HALLETT	Richard Hallett	12 05 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

TRANSPORTER

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
[illegible]	[illegible]	12 6 91

FACILITY

Form Approved OMB No. 2050-0039, Expires 9-30-91
EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

In case of emergency or spill, immediately call the National Response Center (800) 424-8802.

MA F345916 COPY>5: TRANSPORTER 1 RETAINS

COPY 5: TRANSPORTER 1 RETAINS

12/12/1991 16:39 PHINHAM CT-000 PHINHAM ***** 002/002

a. [X] FIRST NOTIFICATION
OR
b. [ ] SUBSEQUENT NOTIFICATION (If checked, enter No.)

SITE I.D.

UNDERGROUND STORAGE FACILITIES PROGRAM
HAZARDOUS MATERIALS MANAGEMENT UNIT
165 Capitol Avenue, Hartford, CT 06106
TEL. 556-4630

PLEASE TYPE. ALL THREE COPIES MUST BE LEGIBLE!
Refer to **INSTRUCTIONS FOR FILING NOTIFICATION** before completing form.

3. FOR AGEN
8. DAT

D. GRID COORDINATES
X ____ Y ____

LOCATION OF FACILITY	SITE NAME: FAIRFIELD USAR CENTER	NO. AND STREET: 180 HIGH STREET	NEAREST INTERSECTING STREET: LOVER'S LANE	CITY OR TOWN: FAIRFIELD	STATE: CT
BUSINESS NAME AND MAILING ADDRESS	NAME: FAIRFIELD USAR CENTER	NO. AND STREET: 180 HIGH STREET		CITY OR TOWN: FAIRFIELD	STATE: CT
FACILITY OWNER	NAME: US ARMY	NO. AND STREET: HQ FORT DEVENS		CITY OR TOWN: FORT DEVENS	STATE: MA
TYPE OF OWNER	[ ] PRIVATE [ ] STATE [ ] MUNICIPAL [X] FEDERAL (G.S.A. No. _____)				
OPERATOR/CONTACT PERSON	NAME: JERRY T. BUTE	NO. AND STREET: 180 HIGH STREET		CITY OR TOWN: FAIRFIELD	STATE: CT

TANK ID.	11a. DATE OF INSTALLATION (Mo./Yr.)	11b. LIFE EXPECTANCY (If of years)	12a. TOTAL CAPACITY (Gals.)	12 b. STATUS: IN USE	ABANDONED IN PLACE	EST. QUANTITY LEFT STORED (If any). (Gals.)	REMOVED	DATE TANK LAST USED (Mo./Yr.)	13. TYPE OF CONTENTS: OIL/PETROLEM PRODUCT	CHEMICAL LIQUID	14. CONTENTS- CHEMICAL NAME OF PRINCIPAL SUBSTANCE (not trade name.) (Enter C.A.S. No., If known)	15. CONSTRUCTION MATERIALS: STEEL	FIBERGLASS REINFORCED PLASTIC	OTHER (Specify from list A)	16. PROTECTION a. INTERNAL: LINED	UNLINED	CATHODIC PROTECTION	b. EXTERNAL: COATED/WRAPPED	CATHODIC PROTECTION	OTHER (Specify from list B)	17. INTEGRAL PIPING SYSTEM a. CONSTUCTION AND PROTECTION (See list A&B)	b. INST. / REPL. (Mo
mple	5/75	30	5000	X					X		Heating fuel #2		X			X				H	5	5/
mple	7/60	-	8000				X	8/78		X	1, 1, 1- Trichloroethane CAS #79016	X				X				E	7	7/
-1			1000			PURGED	X	12/91			WASTE OIL	X										

HAVE YOU ATTACHED SKETCH OF TANKS AND LOCATION? [X] YES

COMMENTS: TANK IN GOOD CONDITION
NO EVIDENCE OF LEAKING

22. CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. **Penalties:** any owner who knowingly fails to notify shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

22a. SIGNATURE
X James M. Re...

22c. NAME (Type or Print)
JAMES M. REGAN

COPY 1: SEND TO DEP: 165 CAPITOL AVE., HARTFORD, CT ...

Technical Report
Underground Storage Tank Closure
1,000 Gallon Waste Oil
UST No. 0062
United States Army Reserve Center
180 High Street
Fairfield, Connecticut

ATEC File: 37.07.91.0451
Contract No. DAK31-91-D-0015

Prepared for:

United States Army
Directorate of Contracting
Building 227
Fort Devens, Massachusetts

Attn.: Ms. Beth Castriotta
Contracting Specialist

December 9, 1992

ATEC Environmental Consultants
Division of ATEC Associates, Inc.
55 Accord Park Drive
Rockland, Massachusetts 02370
(617) 878-6200 FAX (617)871-6781

December 9, 1992

Ms. Beth Castriotta, Contracting Specialist
United States Army
Directorate of Contracting
Building 227
Fort Devens, Massachusetts 01433-5340

RE: Technical Report
Underground Storage Tank Closure
1,000 Gallon Waste Oil - UST No. 0062
United States Army Reserve Center
180 High Street
Fairfield, Connecticut
ATEC File: 37.07.91.0451

Ms. Castriotta:

Attached is a report by ATEC Associates, Inc. (ATEC), detailing the closure of one Underground Storage Tank (UST) referenced as UST No.0062, located at the United States Army Reserve Center (USARC), 180 High Street, Fairfield, Connecticut (the site). The Technical Report covers work conducted under Contract No. DAKF31-91-D-0015 as part of Removal of Underground Storage Tanks in the New England Area, US Army Project No. EQ-19027-9P.

ATEC appreciates the opportunity to be of service in this matter. If you have any questions or comments, please do not hesitate to contact our office.

Sincerely,

ATEC Associates, Inc.

Mark E. Baldi
Project Manager

Gregory A. Mischel
Senior Project Manager

Marta J. Nover
Environmental Consulting
Division Manager

TABLE OF CONTENTS

APPENDICES

TECHNICAL REPORT
UST No. 0062

United States Army Reserve Center
180 High Street
Fairfield, Connecticut
ATEC Project No. 37.07.91.0451

1.0 INTRODUCTION

This Technical Report details the removal of one 1,000-gallon, single wall, steel Underground Storage Tank (USTs) referenced as UST No. 0062 at United States Army Reserve Center (USARC), 180 High Street, Fairfield, Connecticut (the site, Figure 1). The Technical Report covers most phases of work conducted under Contract No. DAKF31-91-D-0015 as a part of the Removal of an Underground Storage Tank in the New England Area, US Army Project No. EQ-19027-9P.

The basic Project Work Scope included:

- Procurement/administration of all federal, state and local permits, manifests, regulations, etc., associated with UST system closure.

- Excavating, venting, cleaning, transporting, and disposing of one 1,000-gallon, waste oil UST by appropriately licensed contractors/facilities.

- Disposal of residual UST materials at a licensed facility.

- Field screening and analysis of soil from the excavations by Photoionization Detector (PID) and field analyzed with a portable Non-Dispersive Infrared (NDIR) Analyzer, to identify evidence of the release of oil and hazardous materials from the UST, if any.

- Laboratory Analysis of soil sampled from the UST excavation by a USEPA certified laboratory for Total Petroleum Hydrocarbons (TPH) pursuant to EPA Method 418.1.

- Backfill and surface restoration

- Preparation of a Technical Report, to include assimilation of information gathered, major findings and conclusions.

2.0 POST REMOVAL REPORT

2.1 Subsurface Storage Tank Excavation and Removal

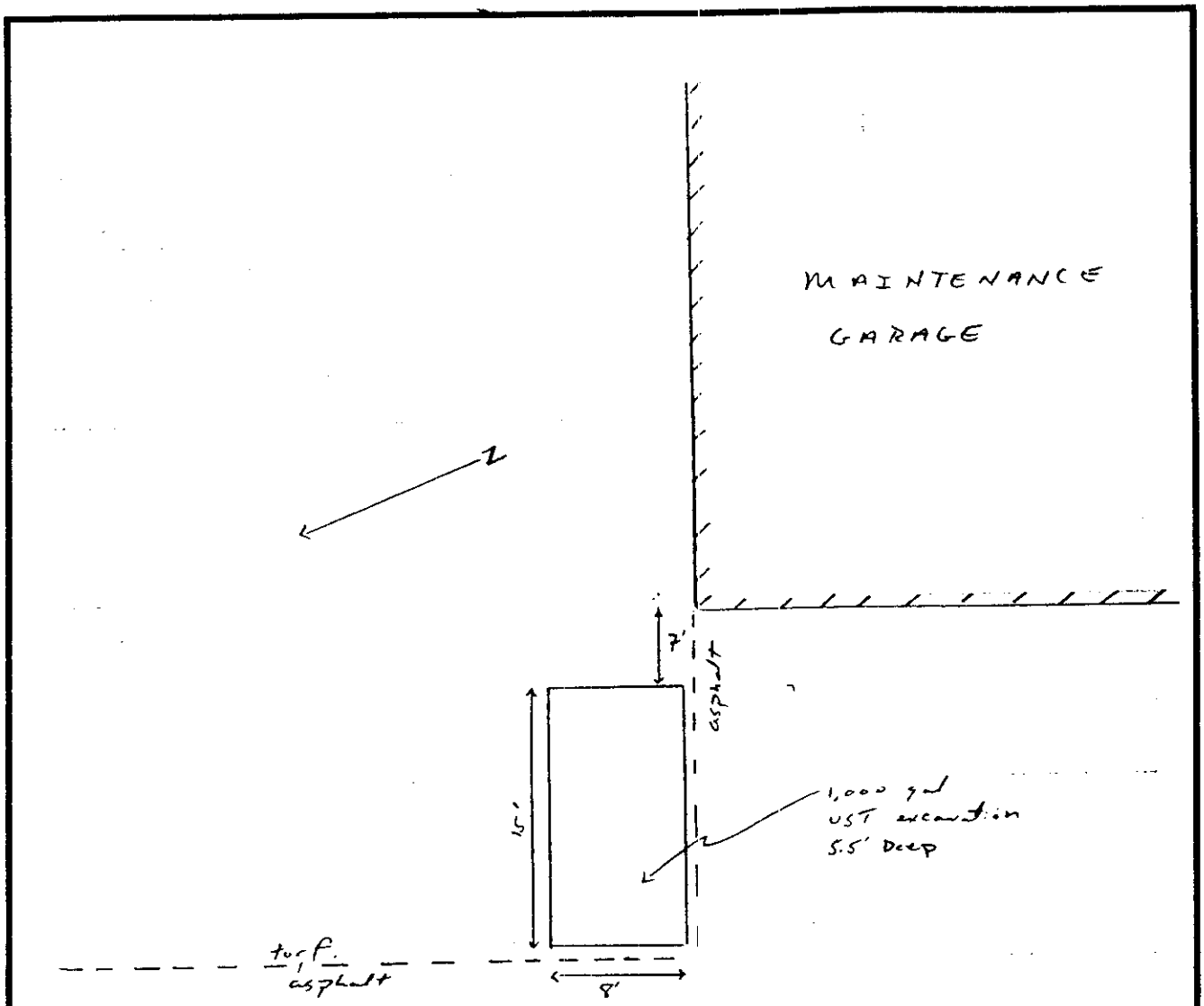
On December 5, 1991, one 1,000 gallon, single wall, steel, underground storage tank was excavated and removed from the site. The UST was utilized to store waste oil. The UST was located approxiamately seven feet northwest of the maintenance garage building. Site topography is sloped downgradient to the southwest.

The tank was covered by approximately two feet of soil.

Associated piping was drained, and tank connections were removed. UST No. 0062 was estimated to contain 88 gallons of waste oil. Two samples of the tank contents (Wos-1 and Wos-2) were laboratory analyzed for disposal classification purposes. The analytical results are included in Appendix D. The waste oil was removed on December 5, 1991, and transported to a licensed T.S.D.F. (Cyn Oil).

Tank openings were capped, and the tank was removed from the excavation. The tank was observed to be in good condition with no perforations, punctures, or severe corrosion. Soils in the excavation consisted primarily of silty, fine to coarse sand and gravel fill. The bottom of the excavation was approximately six feet below grade. Groundwater was not encountered. No visible contamination of soil was observed.

Following venting of the tank, an access way was cut in the end of the tank to allow entry



UST LOCATION PLAN

1,000 gallon UST relative to maintenance garage at:
US Army Reserve Center
Fairfield, Connecticut

PROJECT: 37.07.483

NOT TO SCALE

FIGURE: 1

ATEC

for cleaning. It was then entered and vacuumed/wiped clean of any residual materials. The appropriate Hazardous Waste manifest is included in Appendix F.

The scrap tank was removed from the site on December 5, 1991 and disposed at Alderman and Dow, located in New Haven, Connecticut.

2.2 Sampling and Analysis Plan

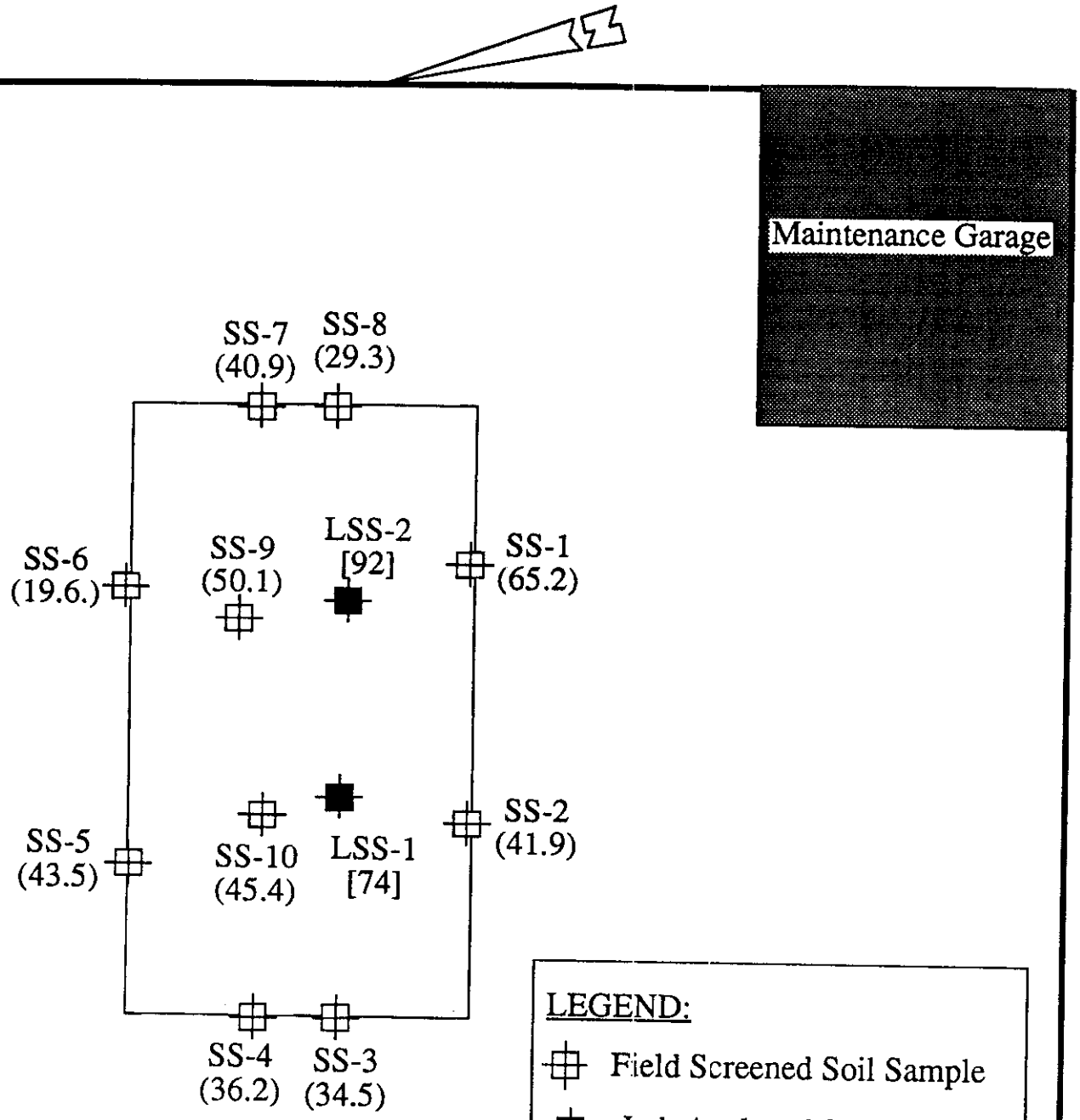
Ten soil samples were obtained from the excavation for field screening with a Photoionization Detector (PID) and field analyzed with a Non-Dispersive Infrared (NDIR) Analyzer. The PID field screening for Total Organic Vapors (TOV's) vapors was conducted with an HNu photoionizer utilizing the jar headspace screening procedures outlined in the Hazardous Materials Containment Plan. The NDIR field screening for Total Petroleum Hydrocarbons (TPH) was conducted with a Horiba OCMA 220, utilizing the procedures outlined in the Hazardous Materials Containment Plan.

Eight of the samples (SS-1 to SS-8) were obtained from the excavation walls at a depth of approximately two to five feet below grade. Two of the samples (SS-9 and SS-10) were obtained from the bottom of the excavation at a depth of approximately six feet below grade.

Two soil samples (LSS-1 and LSS-2) were obtained from the bottom of the excavation for laboratory analysis. These samples were analyzed for TPH utilizing USEPA Method 418.1.

Tank contents were laboratory analyzed for disposal classification purposes. Laboratory analyses included Volatile Organic Compounds (USEPA Method 8010/8020), Semi - Volatile Organic Compounds (USEPA Method 8270), 13 Metals by Toxicity Characteristic Leaching Procedure (USEPA Method 6010), Polychlorinated Biphenyls (USEPA Method 8080), Corrosivity (USEPA Method 9045), and Ignitability (USEPA Method 1010).

Sampling locations are depicted on the Sampling Schematic attached as Figure 2. Chain of custodies are included in Appendix E.



SAMPLING SCHEMATIC

1,000 gallon UST excavation at:
US Army Reserve Center
Fairfield, Connecticut

PROJECT: 37.04.483

NOT TO SCALE

FIGURE: 2

ATEC

2.3 Analytical Results

The results from analysis with the Photoionization Detector (PID) and the Non-Dispersive Infrared (NDIR) Analyzer of the ten samples obtained from the excavation are as follows:

TABLE 1 - PID AND NDIR RESULTS

Sample No.	TOV (ppm)	TPH (ppm)
SS-1	10.0	65.2
SS-2	22.0	41.9
SS-3	15.0	34.5
SS-4	30.0	36.2
SS-5	20.0	43.5
SS-6	22.0	19.6
SS-7	25.0	40.9
SS-8	30.0	29.3
SS-9	30.0	50.1
SS-10	10.2	45.4

N.D. = None Detected

Laboratory analytical results of the two soil samples obtained from the bottom of the excavation revealed 92 ppm TPH for LSS-1, and 74 ppm TPH for LSS-2 (Appendix D).

Laboratory analytical results of tank content samples (Wos-1 and Wos-2) revealed the following concentrations of VOC's: 38,000 parts per billion (ppb) Benzene, 50,000 ppb Ethylbenzene, 88,000 ppb Toluene, and 130,000 ppb Total Xylenes. Analytical results for Semivolatile Organic Compounds revealed concentrations of: 650 ppm Naphthalene, 100 ppm Pyrene and 2,070 ppm 2-Methylnaphthalene, 75 ppm Isophorne, 195 ppm N-nitrosodiphenylamine. Analytical results for 13 Metals by TLCP revealed 0.2 ppm Lead, and 2.2 ppm Zinc. Concentrations of PCBs were not detected. The Flashpoint was 185°F, and Corrosivity (pH) was revealed to be 6.4.

3.0 SITE REMEDIATION AND CONTAMINATED SOIL DISPOSAL

3.1 Site Remediation

The results of the NDIR Screening and laboratory analyses for the soil samples collected during the tank closure were submitted to the U.S. Army in a Post Rmoval Report dated January 2, 1992. Based upon NDIR Screening and laboratory analytical results, remedial excavation of petroleum contaminated soil was not requested by the U.S. Army for UST No. 0062.

3.2 Soil Stratigraphy

Contact specifications do not require a stratigraphic soil section if site remediation is not conducted. Therefore, a soil stratigraphy figure is not included within this technical report. See Section 2.1 for soil description.

3.3 Contaminated Soil Disposal

Contaminated soil disposal was not required for UST No. 0062.

4.0 HYDROGEOLOGICAL SERVICES

Hydrogeological services were not performed relative to UST No. 0062.

5.0 BACKFILL

On December 5, 1991, approximately 7.5 tons (5 cubic yards) of soil was used to fill the excavation associated with the removal of UST No. 0062. Backfill material consisted of 2.5 tons of native soil which was excavated to free the tank, and 5 tons of clean process gravel. Process gravel contained particles which were less than three inches in diameter

and was free from roots and debris, as per Section 4, Paragraph 5 of the contract. Backfill material was compacted to contract specifications. The excavation was backfilled to subgrade level prior to site restoration.

6.0 CONCLUSIONS AND RECOMMENDATIONS

ATEC's conclusions are as follows:

Upon excavation and removal, the tank was observed to be in good condition with no signs of perforation, punctures, or severe corrosion.

Groundwater was not encountered within the excavation.

Visual inspection of the excavation revealed no stained soil.

Ten soil samples were obtained from the excavation for field screening and field analysis utilizing a PID and NDIR Analysis respectively. PID readings revealed Total Organic Vapor (TOV) Concentrations ranging from 10.0 ppm to 30.0 ppm. NDIR results revealed TPH concentrations ranging from 19.6 ppm to 65.2 ppm.

Two soil samples were obtained from the excavation for laboratory analysis for TPH utilizing USEPA Method 418.1. Analytical results for LSS-1 obtained from the bottom of the excavation revealed 92 ppm TPH. Analytical results for LSS-2 obtained from the bottom of the excavation revealed 74 ppm TPH.

Site remediation and hydrogeological services were not performed relative to UST 0062.

The excavation was backfilled and compacted with 2.5 tons of native soil which was excavated to free the tank, and five tons of clean process gravel.

ATEC's recommendations are as follows:

Drill and install one groundwater monitoring well to evaluate soil and groundwater

APPENDIX A: PHOTOGRAPHIC DOCUMENTATION

U.S. Army Reserve Center,
Fairfield, Connecticut
ATEC File No. 37.04.483

A-1: Removed tank.

A-2: Excavation as viewed from southwest, facing northeast.

A-1

A-2

PHOTO DOCUMENTATION 1,000 gallon UST excavation at: US Army Reserve Center Fairfield, Connecticut	PROJECT: 37.04.483	ĀTEC

UST CLOSURE O/C CHECK LIST	TANK #C2 - REMOVAL - 1000 GAL W.O. TANK / 180 HIGH ST FAIRFIELD CT.			
CONST -	DL, BA	CONSUL. - JMR	12/5/91	
DEFINABLE FEATURE	DATE	TIME	MEASUREMENTS	NOTES
Calibrate PID & LEL/O2 meters	12/5/91	08:30		
Drain & flush piping & pumps	12/5/91	✓	Removed Remote Fill inside Building. Removed Vent Line	
Excavate to top of tank		08:30		
Vent tank note LEL/O2 levels & times			LEL O2	
		T1: 09:30	30.0 0%	
		T2: 09:31	1% 20.7	
		T3: 09:33	2% 20.5	
		T4: 09:35	3% 20.2	
		T5: 09:37	1% 20.2	
		T6: 09:39	5% 20.2	
		T7: 09:49	5% 20.2	
		T8: 09:55	0% 20.9%	TANK VENTED
		T9:	" "	
		T10:	" "	
		T11:	" "	
		T12: 10:30	" "	
Pump & clean tank:		9:55-10:30	55 gal. liquid	
Note quantities liquid (gal) & sludge (lbs)			___ lbs. sludge	
Remove all tank connections, and cap openings	12/5/91	✓		
Excavate soils to free tank		✓		
Segregate stained soils: Note PID readings		✓	PID (ppm) NDIR (ppm)	SEE ATTACHED PID
(if >10 ppm NDIR also)				SHEET

UST CLOSURE Q/C CHECK LIST	UST #62	FAIRFIELD, CT 1000 GAL STEEL WASTE OIL 12/5/91		
			CONST: DL, BA CONSULT: LMR	
DEFINABLE FEATURE	DATE	TIME	MEASUREMENTS	NOTES
Remove tank, piping, pumps, and hardware.	12/5/91		Photographic Descriptions:	
Photograph excavation; note descriptions.			Photo 1:	
			Photo 2:	
			Photo 3:	
			Photo 4:	
			Photo 5:	
			Photo 6:	
Place tank at safe distance from excavation		✓		
Secure tanks transport off-site		12:00		
Obtain 10 soil samples from			PID (ppm) NDIR (ppm)	Sample locations:
excavation walls/bottom: Note PID/NDIR			SS1: 10.0 65.7	SEE SCHEMATIC
readings and sample locations.			SS2: 22.0 41.9	
			SS3: 15.0 34.5	
			SS4: 30.0 36.2	
			SS5: 20.0 43.5	
			SS6: 22.0 19.6	
			SS7: 25.0 40.9	
			SS8: 30.0 29.3	
			SS9: 30.0 50.1	
			SS10: 10.2 45.4	
Obtain 2 soil samples & 1 water samples				Sample Locations:
for laboratory analysis. Note sample locations.			22.0	LSS1: BOT / SEE SCHEM.
			33.0 / SLIGHT ODOR	LSS2: BOT / SEE SCHEM.
				LWS1: HOHR
			BLANK = 22.0	

UST CLOSURE O/C CHECK LIST	UST #62		1,000 GAL Waste Oil Removal, Fair Field, CT. Const. O.L., B.A. Consultant	
DEFINABLE FEATURE	DATE	TIME	MEASUREMENTS	NOTES
				7½ tons of backfill
Backfill excavation (if clean):	12/5/91			Backfill description:
Note amount & type of backfill	12/5/91	13:30	13X7 TANK Hole	5yds Processed GRAVEL
Close open excavation (if applicable)	12/5/91	13:30		
Restore surface and rope off	12/5/91	✓		
Remove rubbish/debris	12/5/91	✓		
Transport hazardous material off-site:				Amount Classification
Note amount/classification				

See Instructions on Reverse

MATERIAL APPROVAL SUBMITTAL

TO (Contracting Officer)	FROM (Contractor)	DATE
BETH CASTRIOTTA	ATEC ASSOCIATES	12-10-92

CONTRACT NUMBER	SUBMISSION NUMBER	SUBMITTAL
DAKF-31-91-D-0015	47	☒ NEW ☐ RESUBMITTAL

PREVIOUS SUBMISSION NUMBER	PROJECT NUMBER
	EQ-19027-9P

TO BE COMPLETED BY CONTRACTOR			FOR GOVT USE ONLY			
Item No	Specification Section/ Para No/Drawing No	Description of Material (Include Type, Model No, Catalog No, Mfg, etc.)	Approved	Dis-approved	See Reverse	Initial
1	4.0 3.7	TECH. REPORT – U.S. ARMY RESERVE CENTER FAIRFIELD, CT, ~~NEW HAVEN, CT~~ (LIST #'S 62.~~64~~)		X		

TYPED OR PRINTED NAME AND GRADE	SIGNATURE	DATE
CRAIG D. TROMBLY P.M.	Craig D. Trombly	12-10-92

FOR GOVT USE ONLY

TO DFAE

For Evaluation and Action

TYPED OR PRINTED NAME AND GRADE	SIGNATURE	DATE

TO CONTRACTING OFFICER

Recommend ☐ Approval ☒ Disapproval as Indicated Above and Subject to Any Applicable Comments on the Reverse Side

TYPED OR PRINTED NAME AND GRADE	SIGNATURE	DATE

TO (Contractor)

☒ Approved ☐ Disapproved as Indicated Above and Subject to Any Applicable Comments on the Reverse Side Request Resubmittal on Disapproved Items Within Days of Date Shown Below.

TYPED OR PRINTED NAME AND GRADE	SIGNATURE	DATE
		12-29-92

FORSCOM FORM 1 MAR 76 59-2-R

State if tank sludges were included in manifest or were drummed and shipped separately under another manifest.

OCMA Data Sheet

Operator Name: Bald **Date:** 12/19 ***EBI* Project Number:**

Calibration

	First Reading		Second Reading		Third Reading	
	Initial	Final	Initial	Final	Initial	Final
Zero Calibration		0.0	0.0			
Span Calibration						
Zero Calibration						

Span Check: 3.3

Testing Fairfield CT Lab 462

Sample ID#	Weight Gross	Weight Tare	First Approach F-113	First Approach Sample	Second Approach F-113	Second Approach Sample	Readings First	Readings Second	Readings Third	
SS-1	57.7	75.6	17.5 ml	3 ml	17.5 ml	3 ml	1.8	1.9	2.1	65.2
SS-2	83.0	74.7	17.5 ml	3 ml	17.5 ml	3 ml	1.7	1.6	1.7	41.9
SS-3	85.4	75.9	17.5 ml	3 ml	17.5 ml	3 ml	1.4	1.5	1.6	34.5
SS-4	80.1	75.9	17.5 ml	3 ml	17.5 ml	3 ml	1.4	1.5	1.5	36.2
SS-5	85.9	76.0	17.5 ml	3 ml	17.5 ml	3 ml	1.7	2.0	2.1	43.5
SS-6	80.2	73.5	17.5 ml	3 ml	17.5 ml	3 ml	0.6	0.6	0.7	19.6
SS-7	80.1	75.7	17.5 ml	3 ml	17.5 ml	3 ml	1.6	1.5	1.6	40.9
SS-8	77.7	74.5	17.5 ml	3 ml	17.5 ml	3 ml	1.2	1.1	1.2	29.3
SS-9	89.1	76.0	17.5 ml	3 ml	17.5 ml	3 ml	2.9	3.0	3.2	50.1
SS-10	83.1	74.5	17.5 ml	3 ml	17.5 ml	3 ml	2.8	2.9	2.9	45.4

RECEIVED DEC 2 4 1991

In Response To The Future

December 20, 1991

Mr. Mark Baldi
ATEC Environmental Consultants
62 Accord Park Drive
Norwell, MA 02061

Dear Mr. Baldi:

Tabulated below are the laboratory test results for the analyses of samples from several of your Tank pull projects.

Atec project ID	Ess Sample ID	Atec Sample ID	TPHIR
Worcester, MA	915454-01	LSS1-500	12 mg/Kg
	915454-02	LSS2-500	41 "
	915454-03	LSS3-500	19 "
Roslindale, MA	915484-01	SS 13	<10 "
	915484-02	SS 14	332 "
Lawrence, MA	915487-01	LSS1-1000	142 "
	915487-02	LSS2-1000	46 "
	915487-03	LSS3-1000	69 "
Portsmouth, NH	915490-01	WS 13	<1 mg/L
	915490-02	SS 1.3	<10 mg/Kg
	915490-03	SS 10.3	<10 "
Pittsfield, MA	915497-01	LSS1	23 "
	915497-02	LSS2	19 "
	915497-03	LSS3	20 "
Chicopee, MA	915510-01	LSS1	14 "
	915510-02	LSS2	28 "
	915510-03	LSS3	24 "
Milford, CT	915525-01	LSS1	1080 "
	915525-02	LSS2	30 "
Fairfield, CT	915526-01	LSS1	92 "
	915526-02	LSS2	74 "
Brockton	915528-01	LSS1	<10 "
	915528-02	LSS2	<10 "
	915528-03	LWS1	<1 mg/L

Environmental Science Services
532 Atwells Avenue, Providence, Rhode Island 02909 (401) 421-0398 FAX (401) 421-5731

ATEC Environmental Consultants
62 Accord Park Drive
Norwell, MA 02061
December 20, 1991

Atec project ID	Ess Sample ID	Atec Sample ID	TPHIR
Springfield, MA	915537-01	LSS1	191 mg/Kg
	915537-02	LSS2	<10 "
	915537-03	LSS3	37 "
Windsor Lock, CT	915556-01	LSS1	42 "
	915556-02	LSS2	13 "
	915556-03	LSS3	28 "
Auburn, ME	915592-01	LRS-1	<10 "
	915592-02	LRS-2	<10 "
New Haven, CT	915593-01	LSS1	18 "
	915593-02	LSS2	12 "

If you have any questions please feel free to call.

Sincerely,

Dave Dickinson
Laboratory Manager

In Response To The Future

CERTIFICATE OF ANALYSIS

Date: 1/30/92 Job: 5526
Account: 95659
Received: 12/6/91

TO: ATEC ENVIRONMENTAL
62 Accord Park Drive
Norwell, MA 02061

Project: FAIRFIELD

Attn: Mr. Mark Baldi

Sample Number	Method Number	Parameter	Result	Unit	Sample Description
91552601	EPA-418.1	TPH/IR(Dry Wt.)	92	mg/Kg	LSS1
	EPA-160.3	Total Solids	89	%	
91552602	EPA-418.1	TPH/IR(Dry Wt.)	74	mg/Kg	LSS2
	EPA-160.3	Total Solids	88	%	
91552603	SW-846 1010	Flash Point	185	'F	WOS-1
	SW-846 9045	pH	6.4	.	
	SW-846 8010/8020	Volatiles	Attached	.	
	EPA-8270	Semi Volatiles	Attached	.	
	TCLP	Inorganics	Attached	.	
91552604	SW-846 8080	PCBs	Attached	.	WOS-2

David Dickinson
Laboratory Manager

In Response To The Future

CERTIFICATE OF ANALYSIS

PAGE 2

Polychlorinated Biphenyls

SS SAMPLE ID: 91552604
CLIENT SAMPLE ID: WOS-2

ESS PROJECT ID: 5526
CLIENT PROJECT ID: Fairfield

Parameter	Results	Method Reporting Limit
rochlor 1016	ND	< 50 mg/kg
rochlor 1221	ND	< 50 mg/kg
Arochlor 1232	ND	< 50 mg/kg
Arochlor 1242	ND	< 50 mg/kg
rochlor 1248	ND	< 50 mg/kg
rochlor 1254	ND	< 50 mg/kg
Arochlor 1260	ND	< 50 mg/kg

David Dickinson
Laboratory Manager

ote: ND=None Detected

In Response To The Future

CERTIFICATE OF ANALYSIS

EPA Method 8010/8020

ESS SAMPLE ID: 91552603
CLIENT SAMPLE ID: WOS-1

ESS PROJECT ID: 5526
CLIENT PROJECT ID: Fairfield

olatile Halogenated Organics	RESULT	METHOD REPORTING LIMIT	
Bromodichloromethane	ND	500	ug/Kg
romoform	ND	500	ug/Kg
romomethane	ND	500	ug/Kg
Carbon tetrachloride	ND	500	ug/Kg
hlorobenzene	ND	500	ug/Kg
hloroethane	ND	500	ug/Kg
-Chloroethylvinyl ether	ND	500	ug/Kg
Chloroform	ND	500	ug/Kg
hloromethane	ND	500	ug/Kg
ibromochloromethane	ND	500	ug/Kg
1,2-Dichlorobenzene	ND	500	ug/Kg
,3-Dichlorobenzene	ND	500	ug/Kg
,4-Dichlorobenzene	ND	500	ug/Kg
Dichlorodifluoromethane	ND	500	ug/Kg
1,1-Dichloroethane	ND	500	ug/Kg
,2-Dichloroethane	ND	500	ug/Kg
,1-Dichloroethene	ND	500	ug/Kg
trans-1,2-Dichloroethene	ND	500	ug/Kg
,2-Dichloropropane	ND	500	ug/Kg
is-1,3-Dichloropropene	ND	500	ug/Kg
trans-1,3-Dichloropropene	ND	500	ug/Kg
ethylene Chloride	ND	500	ug/Kg
,1,2,2-Tetrachloroethane	ND	500	ug/Kg
Tetrachloroethene	ND	500	ug/Kg
1,1,1-Trichloroethane	ND	500	ug/Kg
,1,2-Trichloroethane	ND	500	ug/Kg
richloroethene	ND	500	ug/Kg
Trichlorofluoromethane	ND	500	ug/Kg
inyl Chloride	ND	500	ug/Kg
enzene	38000	500	ug/Kg
Ethylbenzene	50000	500	ug/Kg
oluene	88000	500	ug/Kg
otal Xylenes	130000	500	ug/Kg

David Dickinson
Laboratory Manager

NOTE: ND=None Detected above method reporting limit.

In Response To The Future

CERTIFICATE OF ANALYSIS

PAGE 4

TCL ACID EXTRACTABLES-EPA METHOD 8270

ESS SAMPLE ID: 91552603
LIENT SAMPLE ID: WOS-1

ESS PROJECT ID: 5526
CLIENT PROJECT ID: Fairfield

arameter	Sample Concentration	Method Reporting Limit	
-Chlorophenol	ND	25	mg/Kg
2-Nitrophenol	ND	25	mg/Kg
henol	ND	25	mg/Kg
,4-Dimethylphenol	ND	25	mg/Kg
2,4-Dichlorophenol	ND	25	mg/Kg
2,4-Dinitrophenol	ND	125	mg/Kg
entachlorophenol	ND	125	mg/Kg
-Nitrophenol	ND	125	mg/Kg
2,4,6-Trichlorophenol	ND	25	mg/Kg
,4,5-trichlorophenol	ND	125	mg/Kg
-Methylphenol	ND	25	mg/Kg
4-Methylphenol	ND	25	mg/Kg
-Chloro-3-Methylphenol	ND	25	mg/Kg
,6-Dinitro-2-Methylphenol	ND	125	mg/Kg

David Dickinson
Laboratory Manager

** Above list compiled from US EPA Contract Laboratory Program Statement of Work for Organic Analysis, Multi-media, Multi-concentration, SOW No. 2/88.

OTE: ND=None Detected above method reporting limit.

In Response To The Future

CERTIFICATE OF ANALYSIS
PAGE 5
TCL BASE NEUTRAL EXTRACTABLES--EPA METHOD 8270

SS SAMPLE ID: 91552603
CLIENT SAMPLE ID: WOS-1

ESS PROJECT ID: 5526
CLIENT PROJECT ID: Fairfield

arameter	Sample Concentration	Method Reporting Limit	
Acenaphthylene	ND	25	mg/Kg
,2,4-Trichlorobenzene	ND	25	mg/Kg
exachlorobenzene	ND	25	mg/Kg
Bis(2-chloroethyl)ether	ND	25	mg/Kg
?-Chloronaphthalene	ND	25	mg/Kg
,2-Dichlorobenzene	ND	25	mg/Kg
1,3-Dichlorobenzene	ND	25	mg/Kg
1,4-Dichlorobenzene	ND	25	mg/Kg
,3-Dichlorobenzidine	ND	50	mg/Kg
,4-Dinitrotoluene	ND	25	mg/Kg
2,6-Dinitrotoluene	ND	25	mg/Kg
luoranthene	ND	25	mg/Kg
-Chlorophenyl phenyl ether	ND	25	mg/Kg
Bis(2-chloroisopropyl) ether	ND	25	mg/Kg
Bis(2-chloroethoxy) methane	ND	25	mg/Kg
exachlorobutadiene	ND	25	mg/Kg
exachlorocyclopentadiene	ND	25	mg/Kg
Isophorone	75	25	mg/Kg
aphthalene	650	25	mg/Kg
itrobenzene	ND	25	mg/Kg
N-nitrosodiphenylamine	195	25	mg/Kg
-nitrosodi-n-propylamine	ND	25	mg/Kg
is(2-ethylhexyl)phthalate	ND	25	mg/Kg
Di-n-butylphthalate	ND	25	mg/Kg
i-n-octylphthalate	ND	25	mg/Kg
iethyl phthalate	ND	25	mg/Kg
imethyl phthalate	ND	25	mg/Kg
Benzo(a)anthracene	ND	25	mg/Kg
enzo(a)pyrene	ND	25	mg/Kg
enzo(b)fluoranthene	ND	25	mg/Kg
Benzo(k)fluoranthene	ND	25	mg/Kg
hrysene	ND	25	mg/Kg
cenaphthene	ND	25	mg/Kg
Anthracene	25	25	mg/Kg

David Dickinson
Laboratory Manager

** Above list compiled from US EPA Contract Laboratory Program Statement of Work for Organic Analysis, Multi-media, Multi-concentration, SOW No. 2/88.

CERTIFICATE OF ANALYSIS

TCL BASE NEUTRAL EXTRACTABLES-EPA METHOD 8270 cont.

SS SAMPLE ID: 91552603
CLIENT SAMPLE ID: WOS-1

ESS PROJECT ID: 5526
CLIENT PROJECT ID: Fairfield

Parameter	Sample Concentration	Method Reporting Limit
Benzo(ghi)perylene	ND	25 mg/Kg
Fluorene	ND	25 mg/Kg
Phenanthrene	ND	25 mg/Kg
Dibenzo(a,h)anthracene	ND	25 mg/Kg
Indeno(1,2,3-cd)pyrene	ND	25 mg/Kg
Pyrene	100	25 mg/Kg
Hexachloroethane	ND	25 mg/Kg
4-Bromophenyl-phenylether	ND	25 mg/Kg
Benzyl Alcohol	ND	25 mg/Kg
Benzoic Acid	ND	125 mg/Kg
Bis(2-Chloroethoxy)methane	ND	25 mg/Kg
4-Chloroaniline	ND	25 mg/Kg
2-Methylnaphthalene	2070	25 mg/Kg
2-Nitroaniline	ND	125 mg/Kg
3-Nitroaniline	ND	25 mg/Kg
Dibenzofuran	ND	25 mg/Kg
4-Nitroaniline	ND	125 mg/Kg
Butylbenzylphthalate	ND	25 mg/Kg

David Dickinson
Laboratory Manager

** Above list compiled from US EPA Contract Laboratory Program Statement of Work for Organic Analysis, Multi-media, Multi-concentration, SOW No. 2/88.

Note: ND=None Detected above method reporting limit.

In Response To The Future

CERTIFICATE OF ANALYSIS

TCLP CONSTITUENTS

Inorganic Components

ESS SAMPLE ID: 91552603 — ESS PROJECT ID: 5526
CLIENT SAMPLE ID: WOS-1 — CLIENT PROJECT ID: Fairfield

Inorganics	Sample Result*		Regulatory Level	
Arsenic	<0.2	mg/L	5.0	mg/L
Barium	<0.2	mg/L	100.0	mg/L
Cadmium	<0.02	mg/L	1.0	mg/L
Chromium	<0.05	mg/L	5.0	mg/L
Lead	0.2	mg/L	5.0	mg/L
Mercury	<0.002	mg/L	0.2	mg/L
Selenium	<0.3	mg/L	1.0	mg/L
Silver	<0.05	mg/L	5.0	mg/L
Nickel	<0.04	mg/L	N.A.	
Thallium	<0.1	mg/L	N.A.	
Zinc	2.2	mg/L	N.A.	
Copper	<0.02	mg/L	N.A.	
Antimony	<0.2	mg/L	N.A.	
Beryllium	<0.01	mg/L	N.A.	

Matrix Spike Recovery Data

Arsenic	123%
Barium	105%
Cadmium	120%
Chromium	95%
Lead	95%
Mercury	96%
Selenium	113%
Silver	70%
Nickel	75%
Thallium	110%
Zinc	125%
Copper	125%
Antimony	95%
Beryllium	130%

* Sample result is not corrected for matrix bias.

David Dickinson
Laboratory Manager

NOTE: Regulatory Levels from Federal Register / Vol. 55. No. 126 / Friday, June 29, 1990 / Rules and Regulations.

CHAIN OF CUSTODY RECORD

PROJ. NO. 92.07.4[illegible]

PROJECT NAME [illegible] UST #6-2 - FAIRFIELD, CT

CLIENT US ARMY

LAB PROJ. NO.

SAMPLERS: *(Signature)*

SAMPLING METHOD [illegible]

LABORATORY ANALYSIS

SAMPLE I.D. NO.	DATE	TIME	COMPOSITE	GRAB	WATER	SOIL	[illegible]	FILTERED	ACIDIFIED	ICED		NUMBER OF CONTAINERS	LAB I.D. NUMBER	VOLATILE ORGANICS	BTX & E	TOTAL HYDROCARBONS	PCB'S	E.P. TOXIC METALS	TOTAL METALS (8)	IGNITABILITY	TPH / [illegible]	SAMPLE LOCATION / REMARKS
[illegible]51	12/5	11:30		X		X				X		1								X		
[illegible]52	"	"		X		X				X		1								X		
WC51	"	10:00		X			X			X		1									X	
WC52	"	10:00		X			X			X		1					X					

Relinquished by: *(Signature)* [illegible] — Date / Time 12/5 16:00

Received by: *(Signature)*

Relinquished by: *(Signature)* — Date / Time

Received by: *(Signature)*

Relinquished by: *(Signature)* — Date / Time

Received for Laboratory by: *(Signature)* — Date / Time

Project Manager / Phone #:

ATEC Environmental Consultants
Division of ATEC Associates, Inc.
Cordage Park, Building 3
Route 3 A, Court Street
North Plymouth, Massachusetts 02360
(508) 747-3444

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE
One Winter Street
Boston, Massachusetts 02108

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator US EPA ID No.: CTR000247489 | Manifest Document No.: 30193 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: US ARMY Reserve Center, 180 High St, Fairfield, CT 06430

4. Generator's Phone: 203 254-7814

5. Transporter 1 Company Name: CYN OIL CORPORATION | 6. US EPA ID Number: MAD082303777

7. Transporter 2 Company Name | 8. US EPA ID Number

9. Designated Facility Name and Site Address: CYN OIL CORPORATION, 1771 WASHINGTON STREET, STOUGHTON, MA 02072 | 10. US EPA ID Number: MAD082303777

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. WASTE PETROLEUM OILS N.O.S. COMBUSTIBLE LIQUID NA 1270	001	T	88	G
b.				
c.				
d.				

J. Additional Descriptions for Materials Listed Above (Include physical state and hazard code.): a. TANK CLEANING

K. Handling Codes for Wastes Listed Above: a. T1 T2

15. Special Handling Instructions and Additional Information: 24 hr Emergency 617 344 0265

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR — Printed/Typed Name: FRANK J. VERDUNE | Signature | Date: Month 12 Day 05 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: Richard HALLETT | Signature | Date: Month 12 Day 05 Year 91

TRANSPORTER

18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name | Signature | Date: Month Day Year

19. Discrepancy Indication Space

FACILITY

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. — Printed/Typed Name | Signature | Date: Month Day Year

Form Approved OMB No. 2050-0039, Expires 9-30-91
EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

In case of emergency or spill, immediately call the National Response Center (800) 424-8802.

MA F345916 COPY>5: TRANSPORTER 1 RETAINS

COPY>5: TRANSPORTER 1 RETAINS

12/17/1991 16:50 **** PANAFAX UF-600 **** 617 344 0265 P.03

☒ FIRST NOTIFICATION
OR
☐ SUBSEQUENT NOTIFICATION (If checked, enter No.)

SITE I.D.

UNDERGROUND STORAGE FACILITIES PROGRAM
HAZARDOUS MATERIALS MANAGEMENT UNIT
165 Capitol Avenue, Hartford, CT 06106
TEL. 556-4630

PLEASE TYPE. ALL THREE COPIES MUST BE LEGIBLE!
Refer to **INSTRUCTIONS FOR FILING NOTIFICATION** before completing form.

REV. 10/85

3. FOR AGEN
B. DATE

LOCATION OF FACILITY	SITE NAME: FAIRFIELD USAR CENTER	NO. AND STREET: 180 HIGH STREET	NEAREST INTERSECTING STREET: LOWERY LANE	CITY OR TOWN: FAIRFIELD — STATE: CT
BUSINESS NAME AND MAILING ADDRESS	NAME: FAIRFIELD USAR CENTER	NO. AND STREET: 180 HIGH STREET		CITY OR TOWN: FAIRFIELD — STATE: CT
FACILITY OWNER	NAME: US ARMY	NO. AND STREET: HQ FORT DEVENS		CITY OR TOWN: FORT DEVENS — STATE: MA
TYPE OF OWNER	☐ PRIVATE ☐ STATE ☐ MUNICIPAL ☒ FEDERAL (G.S.A. No.)			
OPERATOR/CONTACT PERSON	NAME: JERRY T. BUTE	NO. AND STREET: 180 HIGH STREET		CITY OR TOWN: FAIRFIELD — STATE: CT

D. GRID COORDINATES: X ____ Y ____

TANK ID	11a. DATE OF INSTALLATION (Mo./Yr.)	11b. LIFE EXPECTANCY (# of years)	12a. TOTAL CAPACITY (Gals.)	12 b. STATUS: IN USE	ABANDONED IN PLACE	EST. QUANTITY LEFT STORED (if any). (Gals.)	REMOVED	DATE TANK LAST USED (Mo./Yr.)	13. TYPE OF CONTENTS: OIL/PETROLEM PRODUCT	CHEMICAL LIQUID	14. CONTENTS- CHEMICAL NAME OF PRINCIPAL SUBSTANCE (not trade name.) (Enter C.A.S. No., If known)	15. CONSTRUCTION MATERIALS: STEEL	FIBERGLASS REINFORCED PLASTIC	OTHER (Specify from list A)	16.PROTECTION a. INTERNAL: LINED	UNLINED	CATHODIC PROTECTION	b. EXTERNAL: COATED/WRAPPED	CATHODIC PROTECTION	OTHER (Specify from list B)	17. INTEGRAL PIPING SYSTEM a. CONSTUCTION AND PROTECTION (See list A&B)	b. DATE INSTALLED OR REPLACED (Mo.
nple	5/75	30	5000	X					X		Heating fuel #2		X			X				H	5	5/7
nple	7/60	-	8000				X	8/78		X	1,1,1- Trichloroethane CAS #79016	X				X				E	7	7/6
			1000			PURGED	X	12/91			WASTE OIL	X										

HAVE YOU ATTACHED SKETCH OF TANKS AND LOCATION? ☒ YES

COMMENTS. TANK IN GOOD CONDITION
NO EVIDENCE OF LEAKING

22. CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. **Penalties:** any owner who knowingly fails to notify shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

22a. SIGNATURE X

22c. NAME (Type or Print)

COPY

SEN. DEP. CAP. AVE. TEST

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- To be totally responsive to our clients' wants and needs with a constant sense of urgency.
- To perform high quality services with technically superior personnel.
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- To review reports with our clients to be sure there are no misunderstandings.
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Corporate Headquarters
8665 Bash Street
Indianapolis, IN 46256-1202
(317) 577-1761

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Sincerely,

Gerald D. Mann
President
ATEC Associates, Inc.

Corporate Headquarters - Client Satisfaction Hot Line

1-800-800-ATEC

(1-800-800-2832)

CT004
1 LT JOHN S. TURNER USARC
Fairfield, Connecticut

FLOOR AND STORM DRAIN INVENTORY

AND

NATURAL RESOURCES INVENTORY

Prepared for:

94th Department of the Army
Regional Support Command

Prepared by:

U.S. Army Corps of Engineers
New England Division
Waltham, MA 02254-9149

With Technical Assistance from:

ENSR
Acton, MA 01720

M950217CT004

June, 1996

DOC NO. 9000-025-100
9000-026-100

FILE NAME EXPLANATION FOR FLOOR AND STORM DRAIN, AND NATURAL RESOURCES REPORTS

(EXAMPLE FOR MA009 – BURKE CENTER – FORT DEVENS – MASSACHUSETTS)

INSTRUCTIONS FOR ACCESSING FILES:

ALL NATURAL RESOURCES FILES ARE ACCESSED THROUGH LOTUS 1-2-3 RELEASE 2.4 WITH WYSIWYG.
THE FLOOR AND STORM DRAIN FILES ARE ACCESSED THROUGH LOTUS 1-2-3 RELEASE 5.

THE FIRST FIVE CHARACTERS (MA009) ARE THE FACILITY ID # FOR NATURAL RESOURCES AND FLOOR AND STORM DRAIN REPORTS.

FOR NATURAL RESOURCES:

THE FOLLOWING TWO LETTERS (NR) INDICATE THAT THE TABLE IS A NATURAL RESOURCES TABLE
THE LAST LETTER OR NUMBER INDICATES THE INDIVIDUAL TABLE (5 CORRESPONDS TO TABLE A5 – BIRDS).

GENERAL

FILE NAME	DESCRIPTION
MA009E	EXPLANATION OF FILE NAMES AND ACCESS INFORMATION

A. FLOOR AND STORM DRAIN REPORT

FILE NAME	DESCRIPTION
MA009	FLOOR AND STORM DRAIN SURVEY TABLES AND COMMENTS

B. NATURAL RESOURCES TABLES

FILE NAME	DESCRIPTION
MA009NRC	TABLE OF CONTENTS
MA009NRM	DATA COLLECTION AND REPORTING ISSUES
MA009NRS	MASTER SUMMARY TABLE
MA009NR1	TABLE A1 – WILDLIFE AND VEGETATION OBSERVED AND EXPECTED
MA009NR2	TABLE A2 – PROTECTED SPECIES – VEGETATION AND WILDLIFE
MA009NR3	TABLE A3 – PROTECTED PLANTS
MA009NR4	TABLE A4 – AMPHIBIANS AND REPTILES
MA009NR5	TABLE A5 – BIRDS
MA009NR6	TABLE A6 – MAMMALS
MA009NRF	REFERENCES

NOTE: THE STATE AND FEDERAL PROTECTED SPECIES TABLES AND OTHER DATA ARE NOT ON DISC FILES – THE ONLY COPIES ARE THE ORIGINALS INCLUDED WITH THE REPORT.

NOTE: COMPUTER FILE NAMES ARE AT THE BOTTOM OF EACH TABLE EXAMPLE: MA009NRC – TABLE OF CONTENTS

US ARMY RESERVE CENTER - DRAIN SURVEY
SUMMARY and GENERAL COMMENTS

Facility ID #: CT004 Center Name: 1 LT John S. Turner USARC

Address: 180 High Street City: Fairfield State: CT

Site Point of Contact: Mr. Jerry Butz Date of Survey: 18-19 Apr 94

1. Regulatory Compliance Violations:
No regulatory violations were observed during the site visit.

2. Potential Regulatory Compliance Violations:
a. Based on telephonic discussions with U.S. Environmental Protection Agency (EPA) Region 1, NPDES personnel, EPA Region 1 considers an AMSA facility to be equivalent to an Industrial Activity IAW NPDES Regulations (40 CFR 122.26). The EPA arrived at this interpretation since they envision USARC units as transportation-type units. Although not an AMSA, the LT. John S. Turner USARC has an assigned Transportation Unit, which matches a civilian SIC. This is an EPA interpretation of the regulations and is not based on any other precedence or written directives. In short, EPA Region I would most likely expect this site to conform to the terms of a Connecticut NPDES Storm Water General Permit. The State of Connecticut's interpretation may differ. The military parking areas drain across the paved main parking lot into Storm Drain Number 2 (SD-2), then (according to a Department of Public Works employee who happened to be in the area) into the municipal storm sewer system and ultimately discharges to Gould Manor Pond. Gould Manor Pond is located approximately 100 yards to the south of the site and appears to be designed as a retention basin for the industrial park. If this pond (part of the municipal storm sewer system) does not discharge to the waters of the State, no permits are required.
b. Floor Drain Number 1 (FD-1) is in the bottom of the work pit in the OMS building. There was no apparent outfall to FD-1 that could be determined since there were no plans available for the OMS building. The site personnel stated that the work pit is no longer used. If FD-1 does not feed into an oil/water separator, then the sanitary sewer; but, instead, feeds into an underground injection chamber (UIC), it would be a violation of the Connecticut UIC regulations. Based on information available from similar sites, it is possible that the OMS may have had a waste oil tank (although not on any plans) which has been subsequently removed. As usually designed, the pit floor drain and another wall drain fed used oil into the waste oil tank. When the waste oil tank was removed, the pit floor drain and wall drains may have been sealed.

3. Recommended Actions to Improve Environmental Practices:
See paragraphs 4 and 5 below.

4. Potential Problems:
a. The boiler room floor of the USARC building had some areas that were covered with rusty covered water. Within the rusty colored water was some black liquid. The source for either substance was not apparent.
b. There was a 3 foot by 4 foot pit (SUMP-2) in the boiler room which was not on any available plans. The pit was filled with water and there was an oily film floating on the water. Since there were wires leading into the pit and the water, no attempt was made to probe to determine the depth of the pit. There is a pipe rising from the pit which gives the impression that this pit may have a sump pump (although the pump could not be seen) which could discharge through tubing to the grass outside of the USARC. The lawn at the discharge point, however, is not discolored nor is there any appearance of vegetative stress, thus the pit's (possible) pump does not appear to be currently operational.
c. SD-3 is in the immediate vicinity of the underground 6,000 gallon fuel oil tank. There is a potential for a spill during refueling of the fuel tank to enter SD-3. It is recommended that either a dike be placed around the refueling area or that the facility establish a policy to cover SD-3 during refueling operations.

5. Uncompleted Inventory Items:

a. See paragraph 4.b above. The pit in the boiler room should be investigated and determined if there is a discharge or potential for discharge. If the pit is required, then it should be connected to the sanitary sewer system as are the other floor drains in the boiler room.

b. Confirm that there is no outfall to FD-1 in the OMS.

c. Because of the transportation mission of this USARC, determine the outfall of the roof drains, since they may require an NPDES General Permit.

d. Confirm with the municipal storm sewer authority whether or not Gould Pond discharges to the waters of the State. If Gould Pond does not discharge to the waters of the state NPDES notification or registration is not required.

6. Other Comments:

None

7. Data Gathering Parameters and Limitations

This report contains the results of a survey conducted under a series of agreed constraints and limitations described in Section 7.1 below. In addition, site-specific factors may have affected the quality or completeness of data gathered and these are described in Section 7.2 below.

Section 7.1

Surveys were conducted using plans obtained by the Corps of Engineers New England Division from the 94th Regional Support Command drawing vault at Fort Devens, MA. The best available site and interior plans on which the surveys were based, in many instances, did not contain:

a. up-to-date information;
b. a complete property boundary;
c. storm water drainage data; and/or
d. plumbing information.

In some cases, no site and/or interior plans were provided and information was hand-sketched by the survey team.

Data collection was limited to the information that could be gathered in the assigned time frame (ranging from one to two days). No supplementary data collection was performed.

a. Outfalls to municipal sanitary or storm sewer could not be determined because either manways were located in the middle of streets and could not be safely accessed or a visit to the municipal authorities, which could not be performed within the assigned time frame, would be required to confirm connections.

b. Information about rooms and/or areas which were not made accessible to the survey team was provided by the facility manager or other facility personnel.

c. Drains shown on field maps are shown in their approximate location. Locations were not scaled off.

d. Drainage associated with purely sanitary purposes such as sinks, water bubblers, toilets, or bermed shower drains was not inventoried. Shower drains which were not located in a bermed area and thus could potentially collect drainage other than sanitary were inventoried as floor drains.

e. Slop sinks which were located on the floor in the janitors closets and could potentially collect drainage other than sanitary were inventoried. Slop sinks attached to the wall were not inventoried.

f. Military organizational maintenance (-20 level and above) facilities, within EPA Region I, are considered as industrial facilities and, therefore, require an NPDES storm water permit. Because of this requirement, roof drains were inventoried for buildings in which greater than organizational maintenance is performed because these buildings would be considered industrial facilities.

g. Surrounding property was classified by usage such as residential, industrial, commercial, or woodland according to the visual observations of the survey team. No additional research was performed to confirm this property classification.

h. The status of drains and pretreatment systems was determined by observation only.

i. Surface drainage directions were estimated based on observation of land contours. Drainage directions were not determined by observing water flow.

j. Water meter pits and non-PCB transformers were not inventoried and thus are not depicted on the field map.

k. Features on the map which did not directly affect the drainage survey were considered to be outside the scope of the field survey and thus were not updated to reflect current status.

l. Vehicles parked on the site or equipment stored on site or inside the building were not moved to survey for drains.

m. OMS work pits were inventoried as containing a floor drain based on information from facility personnel. The presence of a floor drain in the work pit could not be confirmed by visual observation because the work pits were either cemented in, covered by equipment, filled with water, or the sump of the work pit was covered by a grate which could not be removed.

Section 7.2

a. Storm drainage discharge was determined by engineering plans only. The discharge could not be determined by the survey team or facility personnel.

b. The floor of the boiler room is rust colored with dark black spots. Room lighting was very dim and it was difficult to locate floor drains relying solely on light from a flashlight.

c. Maintenance shop was not reflected on available drawings.

d. The majority of pavement in the facility parking areas was not visible due to equipment and vehicle parking.

US ARMY RESERVE CENTER - DRAIN SURVEY

FACILITY ID#: CT004 CENTER NAME: 1 LT John S. Turner USARC ADDRESS: 180 High Street

CITY: Fairfield COUNTY: Bridgeport STATE: CT SURVEYED BY: W. Kidd, M. Healey - ENSR

COMMAND: 76th SITE CONTACT(S):(Name/Rank/Title) Mr. Jerry Butz / Civilian DATE OF SURVEY: 18-19 APR 94

WEATHER: (Day 1 Sunny, high 60's Day 2 Sunny, low 70's)

REFERENCE SITE PLAN - TITLE: Utilities Plan and Drainage Details - U.S.A.R.C. Fairfield, CT Dwg. No. 29 - 06 - 01

DRAWING DATE: 20DEC56 CONTRACTOR: Gilbert Small and Co., Inc. SHEET NUMBER: 3 OF 3 OTHER: Contract No. BA-19-016-ENG-4556

INDEX ON SITE PLAN	ROOM NUMBER/ LOCATION	DRAIN		OUTFALL		TREATMENT		POTENTIAL CONTAMINANTS	REGULATORY COMPLIANCE STATUS
		STATUS	VERIFIED	TYPE	VERIFIED	TYPE	STATUS		
FLOOR DRAINS									
FD - 1	Work pit in OMS building.	CIU	OBS	NONE	(1)	UNK		POL	POUT
FD - 2	Basement, Mens Room.	CIU	OBS	SAN	REP,NOP	NONE		JAN	IN
FD - 3	Basement, officers toilet.	CIU	OBS	SAN	REP,NOP	NONE		JAN	IN
FD - 4	North end of boiler room.	CIU	OBS	SAN (2)	REP,NOP	NONE		FLO (3)	IN
FD - 5	South end of boiler room.	BLK	OBS	SAN (2)	REP,NOP	NONE		FLO (3)	IN
FD - 6	Outside, north of boiler room.	BLK	OBS	SAN (2)	REP,NOP	NONE		NONE	IN
FD - 7	Outside, north of USARC building.	CIU (4)	OBS	SAN	REP,NOP	NONE		NONE	IN
FD - 8	Arms Vault	CIU	OBS	SAN	REP,NOP	NONE		WEP, Existing dehumidifier.	IN
STORM DRAINS									
SD - 1	North of USARC building.	CIU	OBS	STM (5)	PNO	NONE		NONE	IN
SD - 2	South end of main parking lot.	CIU	OBS	STM (5)	PNO	NONE		POL (6)	POUT
SD - 3	South corner of POV parking lot.	CIU	OBS	STM (5)	PNO	NONE		FER, POL (7)	POUT
SD - 4	Southwest of USARC building.	CIU	OBS	STM (5)	PNO	NONE		FER	IN
SD - 5	South of USARC building.	CIU	OBS	STM (5)	PNO	NONE		FER	IN
SD - 6	Southeast of USARC building.	CIU	OBS	STM (5)	PNO	NONE		FER	IN
FUNNEL DRAINS									
F - 1	Boiler room. (8)	CIU	OBS	SAN (2)	REP,NOP	NONE			IN
PRE - TREATMENT SYSTEMS									
GRT - 1	West corner of kitchen. (9)	CIU	OBS	SAN	REP,NOP			JAN	IN

COMMENTS: (1) There is no apparent outfall for FD-1 (not confirmed). (2) FD-4, FD-5, FD-6, and F-1 drain into sump in the boiler room. The sump pump discharges to the building sanitary system. (3) FD-4 and FD-5 collect rusty colored water with some pools of black liquid. (4) FD-7 is currently using a piece of steel wool as a grate. (5) All of the storm drains from the site discharge into the municipal storm drain system on High Street. The unconfirmed ultimate outfall is Gould Manor Pond. (6) SD-2 collects from a drainage ditch about 25' long at the South end of the main parking lot. The drainage ditch collects from the entire main lot including any drainage from the OMS building. (7) SD-3 could potentially collect drainage from the drill hall which could potentially include weapons cleaning materials. (8) F-1 collects exclusively from the hot water tank. (9) GRT-1 is not associated with a floor drain but is a pretreatment system for the sanitary sewer from the kitchen sinks.

Explanations of report codes follow inventory sheets.

DRAIN.

TYPE.

CW - A can wash is a hard surfaced area with a drain, outside, usually next to a kitchen used for washing garbage cans.
F - A funnel drain collects drainage through a funnel and does not collect any floor drainage directly. These are often found in the boiler rooms.
FD - A floor drain is a grated drain collecting drainage from the floor.
GP - A grease platform is an elevated structure onto which vehicles are driven for maintenance. A drain is associated with this structure.
OUT An outlet is the defined point where the effluent of a pipe discharges.
RD - A roof drain collects drainage from a roof usually to discharge onto the ground surface or into the storm drainage system.
SD - A storm drain collects outdoor surface drainage usually in the form of a catch basin or drop inlet.
UIC - An underground injection chamber collects drainage to discharge directly into the ground.
WR - A wash rack is a hard surfaced area with a drain designated for washing vehicles.

STATUS.

BLK - The drain is blocked or filled with debris and does not operate properly.
CIU - The drain is currently in use and is operating properly.
OTH - The status of the drain is unique and will be further described with a numbered note.
POT - The drain does not currently operate properly however, it is potentially operational without an extensive amount of work done.
REM - The drain has been purposely removed from service.

VERIFIED.

OBS - The issue has been observed by ENSR personnel during the site visit.
NOP - The issue has not been observed by ENSR personnel from the available plans.
PNO - The issue has not been observed by ENSR personnel during the site visit but has been observed from the available plans.
REP - The issue has been confirmed by a verbal report from the site personnel.

OUTFALL.

TYPE.

GRW - The outfall discharges into the groundwater on site.
LCF - The outfall discharges into a leachfield on site.
SAN - The outfall discharges into a local municipal sanitary system.
STM - The outfall discharges into a local municipal storm drainage system.
UNK - The discharge location is unknown.
WTF - The outfall discharges to a wetlands area off of the site property.
WTN - The outfall discharges to a wetlands area on the site property.
WWTP - The outfall discharges to a waste water treatment plant other than municipal.
DRY - The outfall discharges to a drywell on site.
INF - The outfall discharges to an intermittent stream off of the site property.
INN - The outfall discharges to an intermittent stream on the site property.
SRF - The outfall discharges to a stream or a river off of the site property.
SRN - The outfall discharges to a stream or a river on the site property.
SWF - The outfall discharges to standing water off of the site property.
SWN - The outfall discharges to standing water on the site property.

VERIFIED.

OBS - The issue has been observed by ENSR personnel during the site visit.
NOP - The issue has not been observed by ENSR personnel from the available plans.
PNO The issue has not been observed by ENSR personnel during the site visit but has been observed from the available plans.
REP - The issue has been confirmed by a verbal report from the site personnel.

US ARMY RESERVE CENTER - DRAIN SURVEY
REPORTING CODE EXPLANATIONS

TREATMENT.

TYPE.

ANS - An acid neutralizing sump is a treatment system usually associated with drainage from a battery storage area.
DET - A detention basin is a treatment system to separate sediment from storm drainage.
GRT - A grease trap is a treatment system used to separate grease from the kitchen drainage.
OWS - An oil water separator is a treatment system used to separate oil and other LNAPL materials from drainage.
RT - A running trap is a treatment system used to prevent back flow into drainage pipes.
UNK - It is unknown if the drainage has a treatment system.

STATUS.

CIU - The treatment system is operating but currently in use and is operational.
MAT - The treatment system does not function properly and needs maintenance.
NOT - The treatment system does not operate.
OCC - The treatment system operates occasionally.

POTENTIAL CONTAMINANTS

ANT - Anti-freeze.
BAT - Battery acid.
CBR - Chemical, biological, or radioactive agents.
DEG - Degreasing solvent (product).
DES - Diesel fuel.
FER - Lawn fertilizer.
FLO - Fuel oil.
GAS - Gasoline.
HAZ - Hazardous wastes.
JAN - Janitorial supplies.
OIL - Oil (product).
OTH - The potential contaminant is unique and will be further described with a numbered note.
POL - Any combination of petroleum, oil and lubricants.
UNK - It is unknown if there are any potential contaminants.
WEP - Potential contaminants may occur due to weapons cleaning in the area.
WOL - Waste oil.

REGULATORY COMPLIANCE.

CND - The status of compliance can not be determined based on available information.
IN - The facility is in compliance, based on available information.
OUT - The facility definitely violates regulatory compliance.
POUT - The facility could potentially be out of compliance.

US ARMY RESERVE CENTERS
NATURAL RESOURCES SURVEY TABLES

FACILITY ID#: CT004
CENTER NAME: Fairfield, Connecticut – 1 LT John S. Turner USARC

TABLE OF CONTENTS

DATA COLLECTION AND REPORTING ISSUES

US ARMY RESERVE CENTER
NATURAL RESOURCE INVENTORY

US ARMY RESERVE CENTER – NATURAL RESOURCE INVENTORY
FACILITY ID#: CT004
CENTER NAME: Fairfield, Connecticut – 1 LT John S. Turner USARC

A.CONTRACT SCOPE–OF–WORK

– Review federal regulations governing preparation of Natural Resource Management Plans for USAR sites.
– Conduct a site visit and inventory existing natural resources based on review of existing on–site reports and a general site walkover. A formal wetland delineation is not a part of this scope.
– Provide to the 94th RSC two copies of the two (2) page draft spreadsheet and map for review, and two copies of the final spreadsheet and map. The final spreadsheet will also be provided on computer disk.
– Delineate vegetative habitats and land uses on the site map provided by the 94th RSC, in pencil.
– Attend three (3) in–progress review meetings in Waltham or at Ft. Devens.
– The project will be completed in approximately 12 months from award date, which was 29 September, 1993.

B. GENERAL DATA COLLECTION AND REPORTING ISSUES THAT ARE COMMON TO ALL CENTERS

– The site inventory was limited to a one or two day visit.
– The inventory could not be conducted during the optimum season at each Center for the following reasons:

1) Waiting to initiate inventories until the spring (mid–April) would not have permitted completion of surveys at all 43 Centers, provide an adequate review period for the 94th RSC, and allow ENSR to complete the final reports by the delivery date of 30 October 1994.

2) A one or two day survey would not have provided a complete set of natural resource data even if it had been conducted in the spring. For example, amphibian surveys would need to be conducted in April and May, while breeding bird surveys should be conducted in early June.

3) Similarly, surveys for protected plants would need to be conducted over a two to four month period, based on the flowering season for each protected species.

– Access to the Center early in the morning (bird studies) and at night (amphibian surveys) were generally impractical due to on–site military personnel availability.

It should be noted that representative breeding bird data were collected at only a few of the Centers.

– The vegetative mapping and land use delineations were plotted on site plans provided by CENED. At some Centers, accurate or up–to–date maps were not available. For a number of Centers, the site plans provided did not include the entire property.
– Limited information was collected for adjacent properties and habitats.
– Development of Natural Resource Management Plans were not within the scope of this project.
– No attempt was made to identify and map every plant at each Center. If several individuals of the same species occurred on a Center, the average height was indicated on the summary legend on the facility base map.

C. CENTER – SPECIFIC DATA COLLECTION ISSUES

Note : Some site specific data, such as weather, survey dates, contacts, etc. are included on the Summary Table for each Center.

1) The inventory was conducted on 26 January 1994, precluding surveys for breeding birds and flowering plants.

2) The Facility Base Map does not include the entire property to the north. A new base map should be developed.

3) The site was covered with approximately 8 to 12 inches of snow during the inventory.

US ARMY RESERVE CENTER – NATURAL RESOURCES SURVEY **SUMMARY TABLE**

FACILITY ID#: CT004 CENTER NAME: Fairfield – 1 LT John S. Turner USARC ADDRESS: 180 High Street

CITY: Fairfield COUNTY: Bridgeport STATE: CT SURVEYED BY: Jim Duncan – ENSR

COMMAND: 76th SITE CONTACT(S):(Name/Rank/Title) Mr. Jerry Butz DATE OF SURVEY: 26 JAN 94

WEATHER: (Day 1 25 deg. F Snow–2 to 3 inches. Day 2 NA

REFERENCE SITE PLAN – TITLE: Site Plan and Index U.S.A.R.C. Fairfield, Ct. Dwg. No. 29–06–01

DRAWING DATE: DEC. 1955 CONTRACTOR: Gilbert Small & Co.,Inc. SHEET NUMBER: 1 of 3 OTHER: Record Drawing–4556

Scale: 1" = 20'

A. FACILITIES/HABITATS	IMPROVED GROUNDS	SEMI–IMPROVED GROUNDS	UNIMPROVED GROUNDS	COMMENTS
Buildings and Paved Areas (ac)	2.3 acres	\	\	All parking areas paved.
Grassed Areas (ac)	\	.63 acres	\	No open fields, only lawn.
Wooded Areas (ac)	\	\	0.76 acres	No shrub habitats.
Water (ac)	\	\	\	\
Total (ac) (3.69 acres)	2.3 acres	.63 acres	0.76 acres	\

(Information provided indicated that the Center was 5.11 acres)

B. Human Uses	COMMENTS
Scenic and Natural Areas	None on Center.
Aesthetic Values	None observed.
Recreational Areas	None on Center.
Public Use	No.
Military Use Only	No.

C. MANAGEMENT PLANS	None identified.

C.1 TIMBER Mgmt. Prog.	None identified.
Commercial Forest (ac)	None identified.

C.2 Wildlife Mgmt. Prog.	None identified.
Hunting	None idenified.
Fishing	None identified.

C.3 Programs With State or Federal Agencies	None identified.

C.4 Grounds Maintenance	
Landscaping	Yes
Prescribed Burning	Not used.
Weed Control	Contracted: Primarily manual cutting along fences; lawn mowing.
Agricultural Activity	None observed.
Pest Control	None indicated.

FACILITY ID#: CT004 CENTER NAME: Fairfield – 1 LT John S. Turner USARC ADDRESS: 180 High Street

CITY: Fairfield COUNTY: Bridgeport STATE: CT SURVEYED BY: Jim Duncan – ENSR

COMMAND: 76th SITE CONTACT(S):(Name/Rank/Title) Mr. Jerry Butz DATE OF SURVEY: 26 JAN 94

D. NATURAL RESOURCES

D.1 Surface Water Bodies	Pond/Impoundment	Lake	River	Brook	Offsite Discharge
General Occurrence	\	\	\	\	\
Acres (est.)	\	\	\	\	\

D.2 Wetlands	Riverine	Lacustrine	Palustrine	Estuarine	Marine
General Occurrence	\	\	\	\	\
Sub–Type Species (1)	\	\	\	\	\
Floodplains/Riparian Veg.	\	\	\	\	\
Acres (est.)	\	\	\	\	\

D.3 Upland Vegetation	Trees	Shrubs	Grasses	Forbs	
General Occurrence	Yes	Yes	Yes(Primarily Lawn)	Yes	
State Protected Species	NONE IDENTIFIED IN CONNECTICUT NATURAL DIVERSITY DATA BASE (REFER TO TABLES A2 AND A3 SEE ATTACHED LETTER).				
Federally Protected Species	NONE IDENTIFIED BY U.S. FISH AND WILDLIFE SERVICE (REFER TO TABLES A2 AND A3, SEE ATTACHED LETTER).				
Commercially Valuable	Less than 20 trees.	\	\	\	Mainly 2nd growth trees.

D.4 Invertebates	
State Protected Species	NONE IDENTIFIED IN CONNECTICUT NATURAL DIVERSITY DATA BASE (REFER TO TABLE A2. SEE ATTACHED LETTER).
Federally Protected Species	NONE IDENTIFIED BY U.S. FISH AND WILDLIFE SERVICE (REFER TO TABLE A2, SEE ATTACHED LETTER).

D.5 Fish	Marine	Estuarine	Freshwater					
			Marsh	Pond	Lake	Brook	River	Impoundment
General Occurrence	\	\	\	\	\	\	\	\
State Protected Species	NONE IDENTIFIED IN CONNECTICUT NATURAL DIVERSITY DATA BASE (REFER TO TABLE A2. SEE ATTACHED LETTER).							
Federally Protected Species	NONE IDENTIFIED BY U.S. FISH AND WILDLIFE SERVICE (REFER TO TABLE A2, SEE ATTACHED LETTER).							
Sport Fishing	\	\	\	\	\	\	\	\
Commercial Use	\	\	\	\	\	\	\	\

FACILITY ID#: CT004 CENTER NAME: Fairfield – 1 LT John S. Turner USARC ADDRESS: 180 High Street

CITY: Fairfield COUNTY: Bridgeport STATE: CT SURVEYED BY: Jim Duncan – ENSR

COMMAND: 76th SITE CONTACT(S):(Name/Rank/Title) Mr. Jerry Butz DATE OF SURVEY: 26 JAN 94

D.6 Reptiles and Amphibians	Salamanders	Frogs	Toads	Turtles	Lizards	Snakes
General Occurrence	SEE TABLE A1	\	SEE TABLE A1	\	\	SEE TABLE A1
State Protected Species	NONE IDENTIFIED IN CONNECTICUT NATURAL DIVERSITY DATA BASE (REFER TO TABLE A2. SEE ATTACHED LETTER).					
Federally Protected Species	NONE IDENTIFIED BY U.S. FISH AND WILDLIFE SERVICE (REFER TO TABLE A2. SEE ATTACHED LETTER).					

D.7 Birds	Waterbirds (3)	Raptors (4)	Gamebirds (5)	Flycatchers	Swallows	
General Occurrence (2)	\	H,O SEE TABLE A5	\	SEE TABLE A5	SEE TABLE A5	
Nesting	\	H,O SEE TABLE A5	\	SEE TABLE A5	SEE TABLE A5	
Migration	\	H,O SEE TABLE A5	\	SEE TABLE A5	SEE TABLE A5	
Wintering	\	H,O SEE TABLE A5	\	\	\	
State Protected Species	NONE IDENTIFIED IN CONNECTICUT NATURAL DIVERSITY DATA BASE (REFER TO TABLE A2. SEE ATTACHED LETTER).					
Federally Protected Species	NONE IDENTIFIED BY U.S. FISH AND WILDLIFE SERVICE (REFER TO TABLE A2. SEE ATTACHED LETTER).					
Waterfowl Hunting	\	\	\	\	\	
Gamebird Hunting	\	\	\	\	\	

D.7 Birds	Woodpeckers	Wood Warblers	Thrushes	Sparrows	Other Passerines
General Occurrence (2)	SEE TABLE A5	SEE TABLE A5	SEE TABLE A5	SEE TABLE A5	SEE TABLE A5
Nesting	SEE TABLE A5	SEE TABLE A5	SEE TABLE A5	SEE TABLE A5	SEE TABLE A5
Migration	\	SEE TABLE A5	SEE TABLE A5	SEE TABLE A5	SEE TABLE A5
Wintering	SEE TABLE A5	\	\	SEE TABLE A5	SEE TABLE A5
State Protected Species	NONE IDENTIFIED IN CONNECTICUT NATURAL DIVERSITY DATA BASE (REFER TO TABLE A2. SE ATTACHED LETTER).				
Federally Protected Species	NONE IDENTIFIED BY U.S. FISH AND WILDLIFE SERVICE (REFER TO TABLE A2. SEE ATTACHED LETTER).				

FACILITY ID#: CT004 CENTER NAME: Fairfield – 1 LT John S. Turner USARC ADDRESS: 180 High Street

CITY: Fairfield COUNTY: Bridgeport STATE: CT SURVEYED BY: Jim Duncan – ENSR

COMMAND: 76th SITE CONTACT(S):(Name/Rank/Title) Mr. Jerry Butz DATE OF SURVEY: 26 JAN 94

D.8 MAMMALS	Marsupials	Insectivores (6)	Bats	Rodents (7)	Carnivores (8)	Deer/Moose
General Occurrence	SEE TABLE A1	S,M SEE TABLE A1	SEE TABLE A1	R,C,S,M,V SEE TABLE A1	R,W,S SEE TABLE A1	\
State Protected Species	NONE IDENTIFIED IN CONNECTICUT NATURAL DIVERSITY DATA BASE (REFER TO TABLE A2. SEE ATTACHED LETTER					\
Federally Protected Species	NONE IDENTIFIED BY U.S. FISH AND WILDLIFE SERVICE (REFER TO TABLE A2. SEE ATTACHED LETTER).					\
Game Species	\	\	\	R,S	\	\
Furbearers	SEE TABLE A1	\	\	\	R,W,S SEE TABLE A1	\

D.9 OTHER PROTECTED SPECIES		
State Protected Species	NONE IDENTIFIED IN CONNECTICUT NATURAL DIVERSITY DATA BASE (REFER TO TABLE A2. SEE ATTACHED LETTER).	
Federally Protected Species	NONE IDENTIFIED BY U.S. FISH AND WILDLIFE SERVICE (REFER TO TABLE A2. SEE ATTACHED LETTER).	

SUMMARY AND RECOMMENDATIONS: No water on–site;no waterbird use; no fisheries; no deer(residential communities surround center).

Furbearers expected to be rare; gray squirrels are common.

RECOMMENDATIONS:

Promote shrub growth in forest habitats:

Reduce greenbriar by spraying to reduce total cover.

Create small openings, leave brush piles

Plant native fruit–bearing trees/shrubs in lawn areas.

Erect chickadee/nuthatch/swallow/bluebird and squirrel nest boxes in forest habitats and on fences(15 total).

Erect nesting platforms for American robins\house finches\barn swallows\ and eastern phoebes on Center buildings(8 total).

RECOMMENDATIONS ARE ONLY SUGGESTIONS AND ARE NOT MEANT TO SERVE AS A MANAGEMENT PLAN. PERMITS MAY BE REQUIRED FOR SOME OF THESE ACTIONS.

FACILITY ID#: CT004 CENTER NAME: Fairfield – 1 LT John S. Turner USARC ADDRESS: 180 High Street

CITY: Fairfield COUNTY: Bridgeport STATE: CT SURVEYED BY: Jim Duncan – ENSR

COMMAND: 76th SITE CONTACT(S):(Name/Rank/Title) Mr. Jerry Butz DATE OF SURVEY: 26 JAN 94

Legend:

"SEE TABLE" indicates that a species or species group is expected based on range and habitat requirements. Refer to the indicated table for a list of species.

\ Indicates species or species group is not expected to occur on the USARC because suitable habitat is not present.

1) Subtype

RIVERINE	LACUSTRINE	PALUSTRINE	ESTUARINE	MARINE
Tidal	Limnetic	Emergent = E	Intertidal	Subtidal
Lower perennial	Littoral	Scrub–Shrub = S/S		Intertidal
Upper perennial		Forested = F		
Intermittent		Open Water = OW		
Unknown Perennial				

2) Observed species are listed in Table A1.

3) **WATERBIRDS**

Ocean/Marine = O/M
Waterfowl = W
Herons = H
Shorebirds = S

4) **RAPTORS**

Hawks = H
Owls = O
Eagles = E

5) **GAMEBIRDS**

Grouse = G
Quail = Q
Pheasant = P
Turkey = T
Woodcock = W

6) **INSECTIVORES**

Shrews = S
Moles = M

7) **RODENTS**

Rabbits = R
Hares = H
Beaver = B
Chipmunks = C
Squirrels = S
Mice = M
Rats = RS
Voles = V
Jumping mice = JM

8) **CARNIVORES**

Canids = CN
Bears = B
Raccoon = R
Weasels = W
Skunks = S
Cats = CT

US ARMY RESERVE CENTER – NATURAL RESOURCES SURVEY
FACILITY ID#: CT004
CENTER NAME: Fairfield, Connecticut – 1 LT John S.Turner USARC

SURVEYED BY: Jim Duncan ENSR
SURVEY DATE(S): 26 January 94
WILDLIFE SPECIES REPORTED: None

TABLE A1
WILDLIFE AND VEGETATION SPECIES OBSERVED AND EXPECTED TO OCCUR ON THE FAIRFIELD, CONNECTICUT USARC (1994)

WILDLIFE SPECIES OBSERVED

BIRDS	BIRDS	MAMMALS	AMPHIBIANS	REPTILES
Cardinal		Gray squirrel	NONE	NONE
Hairy woodpecker				
Mallard(flyover)				
Common flicker				
Black-capped chickadee				
Common crow				
Ring-billed gull(flyover)				
Northern mockingbird				
European starling				

WILDLIFE SPECIES EXPECTED

BIRDS	BIRDS	MAMMALS	MAMMALS	AMPHIBIANS	REPTILES
SEE TABLE A5 FOR A LIST OF EXPECTED BIRDS.		Virginia opossum	Common raccoon	Redback salamander	Northern brown snake
		Common masked shrew	Ermine	Eastern American toad	Northern ringneck snake
		Northern short-tailed shrew	Striped skunk	Fowlers toad	Black rat snake
		Eastern mole			Northern brown snake
		Litttle brown myotis			Eastern garter snake
		Big brown bat			
		Silver-haired bat			
		Eastern red bat			
		Hoary bat			
		Eastern cottontail			
		Eastern chipmunk			
		Eastern gray squirrel			
		White-footed mouse			
		Meadow vole			
		House mouse			

VEGETATION SPECIES OBSERVED

NATIVE SPECIES				ORNAMENTAL SPECIES	
GRASSES/FORBS	SHRUBS	TREES	TREES	SHRUBS	TREES
Japanese honeysuckle	Multiflora rose	Black locust	Eastern hemlock	Privet?	Arborvitae
Wild grape	Honeysuckle	Black cherry	Pin or scarlet oak	Yew	
	Laurel	Red oak	Catalpa		
		Red maple			

US ARMY RESERVE CENTER – NATURAL RESOURCES SURVEY

FACILITY ID#: CT004

CENTER NAME: Fairfield, Connecticut–1 LT John S.Turner USARC

TABLE A2
FEDERAL AND STATE PROTECTED SPECIES POTENTIALLY OCCURRING ON THE FAIRFIELD, CONNECTICUT USARC (1994)

1)PLANTS	Status	Species
	SEE TABLE A3 FOR A LIST OF PROTECTED PLANT SPECIES POTENTIALLY OCCURRING ON THE CENTER.	

2)INVERTEBRATES	Status	Species
	NONE IDENTIFIED IN NATURAL DIVERSITY DATA BASE(NATURAL HERITAGE PROGRAM)	

"SOME OF THE 59 STATE AND FEDERAL PROTECTED INVERTEBRATE SPECIES OCCUR IN WOODED HABITATS SIMILAR TO THOSE OCCURRING ON THE USARC; A DETAILED ANALYSIS OF THEIR POTENTIAL OCCURRENCE HAS NOT BEEN MADE".

3)AMPHIBIANS	Status	Species
	NONE	*NONE*

4)REPTILES	Status	Species
	SC	*EASTERN RIBBON SNAKE*

5)BIRDS	Status	Species
	SC	*COMMON NIGHTHAWK*
	SC	*OLIVE–SIDED FLYCATCHER (MIGRATING ONLY)*

6)MAMMALS	Status	Species
	SC	*SILVER–HAIRED BAT*
	SC	*EASTERN RED BAT*
	SC	*HOARY BAT*

SC = STATE SPECIES OF CONCERN

TABLE A3

STATE AND FEDERAL PLANT SPECIES POTENTIALLY OCCURRING ON THE FAIRFIELD, CONNECTICUT USARC (1994)

STATUS	COMMON NAME	SCIENTIFIC NAME	HABITAT	FLOWERING DATES
SC	Sedge	*Carex hirsutella*	Moist or dry woods or in open.	6/10 – 8/10
SE	Variable sedge	*Carex polymorpha*	Woods, dry sandy soil.	6/12 – 8/31
SC	Wild senna	*Cassia hebecarpa*	Thickets, fields, roadsides.	7/20 – 8/23
SC	Dillen's tick–trefoil	*Desmodium glabellum*	Dry woods.	8/11 – 9/16
SC	Persimmon	*Diospyros virginiana*	Woods.	June
SE	Small white snakeroot	*Eupatorium aromaticum*	Open woods.	8/8 – 9/16
SE	Longleaf bluet	*Houstonia longifolia*	Dry open woods,hillsides.	5/23 – 7/4
SC	Creeping bush clover	*Lespedeza repens*	Open woods.	August
SC	Yellow flax	*Linum sulcatum*	Dry roadsides.	7/19 – 9/14
SE	Green adder's–mouth	*Malaxis unifolia*	Moist or dry woods.	7/23 – 8/19
SE	Red mulberry	*Morus rubra*	Dry rich woods.	6/10 – 8/13
SC	American ginseng	*Panax quinquefolius*	Rich woods.	7/5 – 7/31
SE	Bur oak	*Quercus macrocarpa*	Wet or dry limey soil.	6/3 – 6/10
SE	Nutrush	*Scleria triglomerata*	Meadows, open dry woods.	7/10 – 9/21
SE	Stiff goldenrod	*Solidago rigida*	Dry woods or in open.	8/27 – 9/24
SE	Barren strawberry	*Waldsteinia fragarioides*	Rich dry woods.	5/3 – 5/2
SE	Golden alexanders	*Zizia aptera*	Woods.	July

SC = STATE SPECIES OF CONCERN
SE = STATE ENDANGERED

THE ENTIRE LIST OF PROTECTED PLANT SPECIES WAS EVALUATED FOR THIS REPORT.

RANGES FROM:
CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION 1993.

HABITATS FROM:
SEYMOUR 1993.

TABLE A4
AMPHIBIANS AND REPTILES WHOSE RANGES INCLUDE THE FAIRFIELD, CONNECTICUT USARC (1994)

MARBLED SALAMANDER	*AMBYSTOMA OPACUM*
SPOTTED SALAMANDER	*AMBYSTOMA MACULATUM*
RED–SPOTTED NEWT	*NOTOPHTHALMUS VIRIDESCENS VIRIDESCENS*
NORTHERN DUSKY SALAMANDER	*DESMOGNATHUS FUSCUS FUSCUS*
REDBACK SALAMANDER	*PLETHODON CINEREUS*
FOUR–TOED SALAMANDER	*HEMIDACTYLIUM SCUTATUM*
NORTHERN TWO–LINED SALAMANDER	*EURYCEA BISLINEATA*
EASTERN AMERICAN TOAD	*BUFO AMERICANUS AMERICANUS*
FOWLER'S TOAD	*BUFO WOODHOUSII FOWLERI*
NORTHERN SPRING PEEPER	*PSEUDACRIS CRUCIFER CRUCIFER*
GRAY TREEFROG	*HYLA VERSICOLOR*
BULLFROG	*RANA CATESBEIANA*
GREEN FROG	*RANA CLAMITANS MELANOTA*
WOOD FROG	*RANA SYLVATICA*
PICKEREL FROG	*RANA PALUSTRIS*
COMMON SNAPPING TURTLE	*CHELYDRA SERPENTINA SERPENTINA*
COMMON MUSK TURTLE	*STERNOTHERUS ODORATUS*
SPOTTED TURTLE	*CLEMMYS GUTTATA*
WOOD TURTLE	*CLEMMYS INSCULPTA*
EASTERN BOX TURTLE	*TERRAPENE CAROLINA CAROLINA*
EASTERN PAINTED TURTLE	*CHRYSEMYS PICTA PICTA*
NORTHERN DIAMONDBACK TERRAPIN	*MALACLEMYS TERRAPIN TERRAPIN*
NORTHERN WATER SNAKE	*NERODIA SIPEDON SIPEDON*
NORTHERN BROWN SNAKE	*STORERIA DEKAYI DEKAYI*
EASTERN GARTER SNAKE	*THAMNOPHIS SIRTALIS SIRTALIS*
EASTERN RIBBON SNAKE	*THAMNOPHIS SAURITUS SAURITUS*
EASTERN HOGNOSE SNAKE	*HETERODON PLATIRHINOS*
NORTHERN RINGNECK SNAKE	*DIADOPHIS PUNCTATUS EDWARDSII*
EASTERN WORM SNAKE	*CARPHOPHIS AMOENUS AMOENUS*
NORTHERN BLACK RACER	*COLUBER CONSTRICTOR CONSTRICTOR*
SMOOTH GREEN SNAKE	*OPHEODRYS VERNALIS*
BLACK RAT SNAKE	*ELAPHE OBSOLETA OBSOLETA*
EASTERN MILK SNAKE	*LAMPROPELTIS TRIANGULUM TRIANGULUM*
NORTHERN COPPERHEAD	*AGKISTRODON CONTORTRIX MOKASEN*

NOMENCLATURE FROM:
SOCIETY FOR THE STUDY OF AMPHIBIANS AND REPTILES 1990.

RANGES FROM :
1) KLEMENS 1993.
2) DEGRAAF AND RUDIS 1983a.
3) DEGRAAF AND RUDIS 1983b.

TABLE A5
BREEDING BIRDS WHOSE RANGES INCLUDE THE FAIRFIELD, CONNECTICUT USARC,INCLUDING POTENTIAL NESTING SPECIES (1994)

Pied–billed grebe	*Podilymbus podiceps*
American bittern	*Botaurus lentiginosus*
Least bittern	*Ixobrychus exilis*
Great blue heron	*Ardea herodias*
Great egret	*Casmerodius albus*
Snowy egret	*Egretta thula*
Little blue heron	*Egretta caerulea*
Cattle egret	*Babulcus ibis*
Green–backed heron	*Butorides striatus*
Black–crowned night heron	*Nycticorax nycticorax*
Yellow–crowned night heron	*Nyctanassa violacea*
Glossy ibis	*Plegadis falcinellus*
Mute swan	*Cygnus olor*
Canada goose	*Branta canadensis*
Wood duck	*Aix sponsa*
American black duck	*Anas rubripes*
Mallard	*Anas platyrhynchos*
Blue–winged teal	*Anas discors*
Gadwall	*Anas strepera*
Hooded merganser	*Lophodytes cucullatus*
Common merganser	*Mergus merganser*
Turkey vulture	*Cathartes aura*
Osprey	*Pandion haliaetus*
Sharp–shinned hawk	*Accipiter striatus*
Cooper's hawk	*Accipiter cooperii*
Northern goshawk	*Accipiter gentilis*
Red–shouldered hawk	*Buteo lineatus*
Broad–winged hawk	*Buteo platypterus*
Red–tailed hawk	*Buteo jamaicensis*
American kestrel	*Falco sparverius*
Ring–necked pheasant	*Phasianus colchicus*
Ruffed grouse	*Bonasa umbellus*
Wild turkey	*Meleagris gallopavo*
Northern bobwhite	*Colinus virginianus*
Clapper rail	*Rallus longirostris*
King rail	*Rallus elegans*
Virginia rail	*Rallus limicola*
Sora	*Porzana carolina*
Common moorhen	*Gallinula chloropus*
Piping plover	*Charadrius melodus*
Killdeer	*Charadrius vociferus*
American oystercatcher	*Haematopus palliatus*
Willet	*Catoptrophorus semipalmatus*
Spotted sandpiper	*Actitis macularia*
Upland sandpiper	*Bartramia longicauda*
American woodcock	*Scolopax minor*
Herring gull	*Larus argentatus*
Great black–backed gull	*Larus marinus*
Roseate tern	*Sterna dougallii*
Common tern	*Sterna hirundo*
Least tern	*Sterna antillarum*
Rock dove	*Columba livia*

TABLE A5 cont.
BREEDING BIRDS WHOSE RANGES INCLUDE THE FAIRFIELD, CONNECTICUT USARC,INCLUDING POTENTIAL NESTING SPECIES (1994)

Mourning dove	*Zenaida macroura*
Black–billed cuckoo	*Coccyzus erythropthalmus*
Yellow–billed cuckoo	*Coccyzus americanus*
Barn owl	*Tyto alba*
Eastern screech owl	*Otus asio*
Great horned owl	*Bubo virginianus*
Barred owl	*Strix varia*
Long–eared owl	*Asio otus*
Northern saw–whet owl	*Aegolius acadicus*
Common nighthawk	*Chordeiles minor*
Whip–poor–will	*Caprimulgus vociferus*
Chimney swift	*Chaetura pelagica*
Ruby–throated hummingbird	*Archilochus colubris*
Belted kingfisher	*Ceryle alcyon*
Red–headed woodpecker	*Melanerpes erythrocephalus*
Red–bellied woodpecker	*Melanerpes carolinus*
Yellow–bellied sapsucker	*Sphyrapicus varius*
Downy woodpecker	*Picoides pubescens*
Hairy woodpecker	*Picoides villosus*
Northern flicker	*Colaptes auratus*
Pileated woodpecker	*Cryocopus pileatus*
Eastern wood–pewee	*Contopus virens*
Acadian flycatcher	*Empidonax virescens*
Alder flycatcher	*Empidonax alnorum*
Willow flycatcher	*Empidonax traillii*
Least flycatcher	*Empidonax minimus*
Eastern phoebe	*Sayornis phoebe*
Great–crested flycatcher	*Myiarchus crinitus*
Eastern kingbird	*Tyrannus tyrannus*
Horned lark	*Eremophila alpestris*
Purple martin	*Progne subis*
Tree swallow	*Tachycineta bicolor*
Northern rough–winged swallow	*Stelgidopteryx serripennis*
Bank swallow	*Riparia riparia*
Cliff swallow	*Hirunda pyrrhonota*
Barn swallow	*Hirundo rustica*
Blue jay	*Cyanocitta cristata*
American crow	*Corvus brachyrhynchos*
Fish crow	*Corvus ossifragus*
Common raven	*Corvus corax*
Black–capped chickadee	*Parus atricapillus*
Tufted titmouse	*Parus bicolor*
Red–breasted nuthatch	*Sitta canadensis*
White–breasted nuthatch	*Sitta carolinensis*
Brown creeper	*Certhia americana*
Carolina wren	*Thryothorus ludovicianus*
House wren	*Troglodytes aedon*
Winter wren	*Troglodytes troglodytes*
Sedge wren	*Cistothorus platensis*
Marsh wren	*Cistothorus palustris*
Golden–crowned kinglet	*Regulus satrapa*
Blue–gray gnatcatcher	*Polioptila caerulea*

TABLE A5 cont.
BREEDING BIRDS WHOSE RANGES INCLUDE THE FAIRFIELD, CONNECTICUT USARC,INCLUDING POTENTIAL NESTING SPECIES (1994)

Eastern bluebird	*Sialia sialis*
Veery	*Catharus fuscescens*
Hermit thrush	*Catharus guttatus*
Wood thrush	*Hylocichla mustelina*
American robin	*Turdus migratorius*
Gray catbird	*Dumetella carolinensis*
Northern mockingbird	*Mimus polyglottos*
Brown thrasher	*Toxostoma rufum*
Cedar waxwing	*Bombycilla cedrorum*
European starling	*Sturnus vulgaris*
White–eyed vireo	*Vireo griseus*
Solitary vireo	*Vireo solitarius*
Yellow–throated vireo	*Vireo flavifrons*
Warbling vireo	*Vireo gilvus*
Red–eyed vireo	*Vireo olivaceus*
Blue–winged warbler	*Vermivora pinus*
Golden–winged warbler	*Vermivora chrysoptera*
Nashville warbler	*Vermivora ruficapilla*
Yellow warbler	*Dendroica petechia*
Chestnut–sided warbler	*Dendroica pensylvanica*
Magnolia warbler	*Dendroica magnolia*
Black–throated blue warbler	*Dendroica caerulescens*
Yellow–rumped warbler	*Dendroica coronata*
Black–throated green warbler	*Dendroica virens*
Blackburnian warbler	*Dendroica fusca*
Pine warbler	*Dendroica pinus*
Prairie warbler	*Dendroica discolor*
Cerulean warbler	*Dendroica cerulea*
Black–and–white warbler	Mniotilta varia
American redstart	*Setophaga ruticilla*
Prothonotary warbler	*Protonotaria citrea*
Worm–eating warbler	*Helmitheros vermivorus*
Ovenbird	*Seiurus aurocapillus*
Northern waterthrush	*Seiurus noveboracensis*
Louisiana waterthrush	*Seiurus motacilla*
Kentucky warbler	*Oporornis formosus*
Common yellowthroat	*Geothlypis trichas*
Hooded warbler	*Wilsonia citrina*
Canada warbler	*Wilsonia canadensis*
Yellow–breasted chat	*Icteria virens*
Scarlet tanager	*Piranga olivacea*
Northern cardinal	*Cardinalis cardinalis*
Rose–breasted grosbeak	*Pheucticus ludovicianus*
Indigo bunting	*Passerina cyanea*
Rufous–sided towhee	*Pipilo erythrophthalmus*
Chipping sparrow	*Spizella passerina*
Field sparrow	*Spizella pusilla*
Savannah sparrow	*Passerculus sandwichensis*
Grasshopper sparrow	*Ammodramus savannarum*
Sharp–tailed sparrow	*Ammodramus caudacutus*
Seaside sparrow	*Ammodramus maritimus*

TABLE A5 cont.
BREEDING BIRDS WHOSE RANGES INCLUDE THE FAIRFIELD, CONNECTICUT *USARC,INCLUDING POTENTIAL NESTING SPECIES (1994)*

Song sparrow	*Melospiza melodia*
Swamp sparrow	*Melospiza georgiana*
White–throated sparrow	*Zonotrichia albicollis*
Dark–eyed junco	*Junco hyemalis*
Bobolink	*Dolichonyx oryzivorus*
Red–winged blackbird	*Agelaius phoeniceus*
Eastern meadowlark	*Sturnella magna*
Common grackle	*Quiscalus quiscula*
Brown–headed cowbird	*Molothrus ater*
Orchard oriole	*Icterus spurius*
Northern oriole	*Icterus galbula*
Purple finch	*Carpodacus purpureus*
House finch	*Carpodacus mexicanus*
American goldfinch	*Carduelis tristis*
House sparrow	*Passer domesticus*

DENOTES SPECIES POTENTIALLY NESTING ON THE USARC BECAUSE SUITABLE HABITAT IS PRESENT.

NOMENCLATURE FROM:
AMERICAN BIRDING ASSOCIATION 1993.

RANGES FROM:
1)DEGRAAF AND RUDIS 1983b.

2) ZERANSKI BAPTIST 1990.

US ARMY RESERVE CENTER – NATURAL RESOURCES SURVEY
FACILITY ID#: CT004
CENTER NAME: Fairfield, Connecticut–1 LT John S.Turner USARC

TABLE A6
MAMMALS WHOSE RANGES INCLUDE THE FAIRFIELD,CONNECTICUT USARC (1994)

VIRGINIA OPOSSUM	*DIDELPHIS VIRGINIANA*
COMMON MASKED SHREW	*SOREX CINEREUS*
NORTHERN SHORT–TAILED SHREW	*BLARINA BREVICAUDA*
LEAST SHREW	*CRYPTOTIS PARVA*
EASTERN MOLE	*SCALOPUS AQUATICUS*
STAR–NOSED MOLE	*CONDYLURA CRISTATA*
LITTLE BROWN MYOTIS	*MYOTIS LUCIFUGUS*
KEEN'S MYOTIS	*MYOTIS KEENII SEPTENTRIONALIS*
EASTERN SMALL–FOOTED MYOTIS •	*MYOTIS LEIBII LEIBII*
SILVER–HAIRED BAT	*LASIONYCTERIS NOCTIVAGANS*
EASTERN PIPISTRELLE	*PIPISTRELLUS SUBFLAVUS OBSCURUS*
BIG BROWN BAT	*EPTESICUS FUSCUS*
EASTERN RED BAT	*LASIURUS BOREALIS*
HOARY BAT	*LASIURUS CINEREUS*
EASTERN COTTONTAIL	*SYLVILAGUS FLORIDANUS*
NEW ENGLAND COTTONTAIL	*SYLVILAGUS TRASITIONALIS*
SNOWSHOE HARE	*LEPUS AMERICANUS*
EUROPEAN HARE	*LEPUS EUROPAEUS*
EASTERN CHIPMUNK	*TAMIAS STRIATUS*
WOODCHUCK	*MARMOTA MONAX*
EASTERN GRAY SQUIRREL	*SCIURUS CAROLINENSIS PENNSYLVANICUS*
RED SQUIRREL	*TAMIASCIURUS HUDSONICUS*
SOUTHERN FLYING SQUIRREL	*GLAUCOMYS VOLANS*
AMERICAN BEAVER	*CASTOR CANADENSIS*
WHITE–FOOTED MOUSE	*PEROMYSCUS LEUCOPUS*
MEADOW VOLE	*MICROTUS PENNSLYVANICUS*
COMMON MUSKRAT	*ONDATRA ZIBETHICUS*
SOUTHERN BOG LEMMING	*SYNAPTOMYS COOPERI*
BLACK RAT	*RATTUS RATTUS*
NORWAY RAT	*RATTUS NORVEGICUS*
HOUSE MOUSE	*MUS MUSCULUS*
MEADOW JUMPING MOUSE	*ZAPUS HUDSONIUS*
WOODLAND JUMPING MOUSE	*NAPAEOZAPUS INSIGNIS*
COYOTE •	*CANIS LATRANS*
RED FOX	*VULPES VULPES*
COMMON GRAY FOX	*UROCYON CINEREOARGENTEUS*
COMMON RACCOON	*PROCYON LOTOR*
ERMINE	*MUSTELA ERMINEA CICOGNANII*
LONG–TAILED WEASEL	*MUSTELA FRENATA*
STRIPED SKUNK	*MEPHITIS MEPHITIS*
MINK	*MUSTELA VISON*
NORTHERN RIVER OTTER	*LUTRA CANADENSIS*
BOBCAT	*LYNX RUFUS*
WHITE–TAILED DEER	*ODOCOILEUS VIRGINIANUS BOREALIS*

• Reserve Center is near the edge of the species geographic range.

NOMENCLATURE FROM:

JONES et.al. 1992.

RANGES FROM:

1) DEGRAAF AND RUDIS 1983b.

(2)GODIN 1977.

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STATE PROTECTED SPECIES INFORMATION

STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION

NATURAL RESOURCES CENTER
79 Elm Street, Store Level
Hartford, Connecticut 06106-5127
Natural Diversity Data Base

February 25, 1994

Jim Duncan
ENSR
25 Nagog Park
Acton, MA 01720

Re: 8 Army Reserve Centers
in Connecticut

Dear Mr. Duncan:

As per our conversation on February 18, 1994 I have reviewed the eight centers again to determine whether any significant species or communities are in close proximity to these areas. I can provide you with the following comments:

Site 1: 536 Spring Street, Windsor Locks

This Reserve Center is in close proximity to Bradley International Airport. The airport provides important habitat for many species of grassland birds such as:

Species	State Status
Ammodramus savannarum (Grasshopper Sparrow)	Endangered
Bartramia longicauda (Upland Sandpiper)	Endangered
Eremophila alpestris (Horned Lark)	Threatened
Passerculus sandwichensis (Savannah Sparrow)	Special Conc
Pooecetes gramineus (Vesper Sparrow)	Endangered

These birds require open grassy spaces for nesting. Bradley International Airport also has within its boundaries a pitch pine scrub barren - a critical habitat in Connecticut. The pitch pine-scrub oak vegetation at Bradley is a remnant of a much more extensive area which once covered thousands of acres in this part of Connecticut. Although small, this site is fairly representative example of this vegetation type and is one of the better examples remaining in Connecticut.

Site 2: Phelps Road, East Windsor

This Reserve Center is in close proximity to the Connecticut River. The River proper does provide important habitat for many Federal and State Endangered Species. One of these species, Haliaeetus leucocephalus (Bald Eagle) is known to perch and feed from large trees along the river. Bald Eagles are listed as Federal and State Endangered.

This site is also in the vicinity of a floodplain forest - a significant natural community. Our records also indicate that in 1937 a State Endangered bird species Melanerpes erythrocephalus (Red-headed Woodpecker) was known to occur in the general vicinity of this Reserve Center. These birds inhabit open woodlands or farmland with scattered dead trees.

Site 3: 200 Wintergreen Avenue, New Haven

This Army Reserve Site is in close proximity to West Rock Ridge. West Rock Ridge does have many State Endangered and Threatened Species but they are all associated with trap rock ridge habitat.

Site 4: 180 High Street, Fairfield

There are no significant species or communities in the vicinity of this Reserve Center.

Site 5: Mile Lane, Middletown

There are no significant species or communities in the vicinity of this Reserve Center.

Site 6: 700 south Quaker Lane, West Hartford

There are no significant species or communities in the vicinity of this Reserve Center.

Site 7: 26 Seamans Lane, Milford

According to our information a State Endangered bird species Ammodramus savannarum was known to occur in the vicinity of this Reserve Center in 1894. We have no further information on whether this grassland bird species can still find suitable nesting habitat in the area.

Site 8: Lydia Street Extension

This army reserve site is in close proximity to the Mad River. We do have records of Carex polymorpha (Variable Sedge) from 1990 in the area of the Mad River. Carex Polymorpha is a State Endangered Species.

I hope this information will be of value to you during your site evaluations. If I can be of further help, please let me know.

Sincerey,

D. M. McKay

Dawn M. McKay
Environmental Analyst III

DMM/dmt

THE CONNECTICUT ENDANGERED SPECIES ACT
CHAPTER 495
GENERAL STATUTES OF CONNECTICUT

In 1989, the Connecticut Legislature passed Public Act 89-224 "An Act Establishing a Program for the Protection of Endangered and Threatened Species." The overall goal of the legislation is to conserve, protect, restore and enhance any endangered or threatened species and their essential habitat. As part of the Endangered/Threatened species program, the Commissioner of the Department of Environmental Protection can conduct studies of wildlife and plants to better understand their distribution, population, habitat needs and limiting factors which determine conservation and management measures.

One of the first steps in the implementation of the law requires the Commissioner to develop lists of Endangered, Threatened and Special Concern Species. Initial lists were developed by DEP biologists and then reviewed by groups of experts in their various taxonomic fields. In July of 1991, public comment was solicited, evaluated and incorporated into the listing process. These lists are now finalized and published in this brochure for your information. The list is broken down into taxonomic groups: mammals, birds, reptiles, amphibians, fish, invertebrates and plants. Within these taxonomic groups the species are further categorized as being Endangered (E), Threatened (T) or Special Concern (SC). Each list is alphabetized by the species' scientific name. According to the law:

"Endangered Species" means any native species documented by biological research and inventory to be in danger of extirpation throughout all or a significant portion of its range within the state and to have no more than five occurrences in the state, and any species determined to be an "endangered species" pursuant to the federal Endangered Species Act.

"Threatened Species" means any native species documented by biological research and inventory to be likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range within the state and to have no more than nine occurrences in the state, and any species determined to be a "threatened species" pursuant to the federal Endangered Species Act, except for such species determined to be endangered by the Commissioner in accordance with section 4 of this act.

"Species of Special Concern" means any native plant species or any native nonharvested wildlife species documented by scientific research and inventory to have a naturally restricted range or habitat in the state, to be at a low population level, to be in such high demand by man that its unregulated taking would be detrimental to the conservation of its population or has been extirpated from the state.

If you would like a copy of the legislation or have any questions regarding these lists or the species contained on these lists, please contact one of the offices listed on the inside back cover.

MAMMALS

SC	**Gray wolf* +**	*Canis lupus*
E	**Least shrew**	*Cryptotis parva*
SC	**Eastern cougar* +**	*Felis concolor couguar*
SC	**Gray seal**	*Halichoerus grypus*
SC	**Silver-haired bat**	*Lasionycteris noctivagans*
SC	**Red bat**	*Lasiurus borealis*
SC	**Hoary bat**	*Lasiurus cinereus*
SC	**Fisher**	*Martes pennanti*
SC	**Eastern small-footed bat***	*Myotis leibii*
SC	**Indiana myotis* +**	*Myotis sodalis*
SC	**Eastern woodrat***	*Neotoma floridana*
SC	**Harbor porpoise**	*Phocoena phocoena*
SC	**Southern bog lemming**	*Synaptomys cooperi*

* Extirpated
\+ Federally Endangered

BIRDS

T	**Cooper's hawk**	*Accipiter cooperii*
T	**Sharp-shinned hawk**	*Accipiter striatus*
SC	**Northern saw-whet owl**	*Aegolius acadicus*
SC	**Sharp-tailed sparrow**	*Ammodramus caudacutus*
SC	**Henslow's sparrow***	*Ammodramus henslowii*
SC	**Seaside sparrow**	*Ammodramus maritimus*
E	**Grasshopper sparrow**	*Ammodramus savannarum*
SC	**Great blue heron**	*Ardea herodias*
T	**Short-eared owl** (wintering populations)	*Asio flammeus*
E	**Long-eared owl**	*Asio otus*
E	**Upland sandpiper**	*Bartramia longicauda*
E	**American bittern**	*Botaurus lentiginosus*
SC	**Cattle egret**	*Bubulcus ibis*
SC	**Red-shouldered hawk**	*Buteo lineatus*
SC	**Whip-poor-will**	*Caprimulgus vociferus*
T	**Great egret**	*Casmerodius albus*
T	**Willet**	*Catoptrophorus semipalmatus*
T	**Piping plover ^**	*Charadrius melodus*
SC	**Common nighthawk**	*Chordeiles minor*
E	**Northern harrier**	*Circus cyaneus*
E	**Sedge wren**	*Cistothorus platensis*
SC	**Olive-sided flycatcher**	*Contopus borealis*
SC	**Common raven**	*Corvus corax*
SC	**Little blue heron**	*Egretta caerulea*
T	**Snowy egret**	*Egretta thula*
SC	**Tricolored heron**	*Egretta tricolor*

T **Horned lark**
Eremophila alpestris

E **Peregrine falcon +**
Falco peregrinus

T **Common moorhen**
Gallinula chloropus

SC **Common loon**
Gavia immer

SC **American oyster-catcher**
Haematopus palliatus

E **Bald eagle +**
Haliaeetus leucocephalus

E **Yellow-breasted chat**
Icteria virens

T **Least bittern**
Ixobrychus exilis

T **Black rail**
Laterallus jamaicensis

E **Red-headed woodpecker**
Melanerpes erythrocephalus

SC **Eskimo curlew* +**
Numenius borealis

SC **Yellow-crowned night-heron**
Nyctanassa violacea

SC **Black-crowned night-heron**
Nycticorax nycticorax

SC **Osprey**
Pandion haliaetus

SC **Northern Parula**
Parula americana

SC **Savannah sparrow**
Passerculus sandwichensis

SC **Ipswich sparrow**
Passerculus sandwichensis ssp. *princeps*

SC **Glossy ibis**
Plegadis falcinellus

E **Pied-billed grebe**
Podilymbus podiceps

E **Vesper sparrow**
Pooecetes gramineus

SC **Purple martin**
Progne subis

T **King rail (nesting populations only)**
Rallus elegans

T **Least tern**
Sterna antillarum

E **Roseate tern +**
Sterna dougallii

SC **Common tern**
Sterna hirundo

T **Barn owl**
Tyto alba

SC **Golden-winged warbler**
Vermivora chrysoptera

* Extirpated
\+ Federally Endangered
^ Federally Threatened

REPTILES

T **Loggerhead ^**
Caretta caretta

T **Atlantic green turtle ^**
Chelonia mydas

E **Bog turtle**
Clemmys muhlenbergii

E **Timber rattlesnake**
Crotalus horridus

E **Leatherback +**
Dermochelys coriacea

T **Five-lined skink**
Eumeces fasciatus

SC **Eastern hognose snake**
Heterodon platirhinos

E **Atlantic ridley +**
Lepidochelys kempii

SC **Eastern ribbon snake**
Thamnophis sauritus

\+ Federally Endangered
^ Federally Threatened

AMPHIBIANS

SC **Jefferson salamander "complex"**
Ambystoma jeffersonianum

SC **Blue-spotted salamander "complex"**
Ambystoma laterale

T **Blue-spotted salamander (diploid populations)**
Ambystoma laterale

T **Northern Spring salamander**
Gyrinophilus porphyriticus

T **Northern Slimy salamander**
Plethodon glutinosus

E **Eastern spadefoot**
Scaphiopus holbrookii

FISH

E **Shortnose sturgeon +**
Acipenser brevirostrum

T **Atlantic sturgeon** (in freshwater)
Acipenser oxyrhynchus

SC **American brook lamprey**
Lampetra appendix

SC **Burbot**
Lota lota

\+ Federally Endangered

INVERTEBRATES

SC **Albarufan dagger moth***
Acronicta albarufa

SC **Noctuid moth***
Acronicta lanceolaria

SC **Noctuid moth***
Agrotis stigmosa

E **Dwarf wedge mussel +**
Alasmidonta heterodon

SC **Brook floater**
Alasmidonta varicosa

SC **Salt-and-pepper skipper**
Amblyscirtes hegon

E **Noctuid moth**
Anarta luteola

SC **New Jersey tea inchworm**
Apodrepanulatrix liberaria

SC **Lilypad clubtail**
Arigomphus furcifer

SC **Tawny emperor**
Asterocampa clyton

SC **Tabanid fly***
Atylotus ohioensis

SC **Ground beetle**
Bembidion quadratulum

E **Northern metalmark**
Calephelis borealis

SC **Herodias underwing***
Catocala herodias gerhardi

SC **Precious underwing moth***
Catocala pretiosa

SC **Noctuid moth***
Chaetaglaea cerata

SC **Northeastern beach tiger beetle* ^**
Cicindela dorsalis dorsalis

E **Puritan tiger beetle ^**
Cicindela puritana

SC **Red-bellied tiger beetle**
Cicindela rufiventris

SC **Regal moth***
Citheronia regalis

SC **Mystic Valley amphipod**
Crangonyx aberrans

SC **Noctuid moth**
Crymodes burgessi

SC **Noctuid moth**
Cucullia speyeri

E **Racket-tailed emerald**
Dorocordulia libera

SC **Imperial moth***
Eacles imperialis

E **Virginia River snail**
Elimia virginica

SC **Mottled duskywing***
Erynnis martialis

E **Persius duskywing**
Erynnis persius persius

SC **Noctuid moth**
Eucoptocnemis fimbriaris

SC **Clam shrimp**
Eulimnadia stoningtonensis

SC **Sedge skipper**
Euphyes dion

SC **Noctuid moth***
Euxoa pleuritica

SC **Violet dart moth***
Euxoa violaris

SC **Pitcher plant moth**
Exyra rolandiana

SC **Lymnaeid snail***
Fossaria galbana

SC **Lymnaeid snail***
Fossaria rustica

SC **Horse fly**
Goniops chrysocoma

SC **Phyllira tiger moth***
Grammia phyllira

E **Bog tiger moth**
Grammia speciosa

SC **Aquatic snail**
Gyraulus circumstriatus

SC **Slender clearwing***
Hemaris gracilis

E **Buck moth**
Hemileuca maia

SC **Leonardus skipper**
Hesperia leonardus

T **Horse fly**
Hybomitra frosti

E **Horse fly**
Hybomitra longiglossa

SC **Horse fly**
Hybomitra lurida

SC **Horse fly**
Hybomitra trepida

SC **Horse fly**
Hybomitra typhus

SC **Hop vine borer moth***
Hydraecia immanis

SC **Henry's elfin***
Incisalia henrici

SC **Frosted elfin**
Incisalia irus

SC **Hoary elfin***
Incisalia polios

SC **Yellow lampmussel***
Lampsilis cariosa

SC **Noctuid moth***
Lepipolys perscripta

E **Tidewater mucket**
Leptodea ochracea

SC **Hudsonian whiteface**
Leucorrhinia hudsonica

SC **Eastern pond mussel***
Ligumia nasuta

SC **Lemmer's noctuid moth***
Lithophane lemmeri

SC **Pale green pinion moth***
Lithophane viridipallens

SC **Black lordithon rove beetle***
Lordithon niger

T **Bog copper**
Lycaena epixanthe

SC **Eastern pearlshell**
Margaritifera margaritifera

SC **Newman's brocade***
Meropleon ambifusca

SC **Tabanid fly**
Merycomyia whitneyi

SC **Geometer moth***
Metarranthis amyrisaria

SC **Geometer moth***
Metarranthis apiciaria

E **Hessel's hairstreak**
Mitoura hesseli

SC **Syrphid fly***
Mixogaster johnsoni

SC **American burying beetle* +**
Nicrophorus americanus

T **Pitcher plant borer**
Papaipema appassionata

SC **Borer moth***
Papaipema cerina

SC **Borer moth**
Papaipema circumlucens

SC **Goldenrod stem borer**
Papaipema duovata

SC **Columbine borer**
Papaipema leucostigma

SC **Borer moth***
Papaipema maritima

SC **Borer moth***
Papaipema sciata

SC **Giant swallowtail**
Papilio cresphontes

T **Labrador tea tentiform**
Phyllonorycter ledella

SC **Slenderwalker**
Pomatiopsis lapidaria

SC **Whiteriver crayfish**
Procambarus acutus

SC **Noctuid moth***
Psectraglaea carnosa

SC **Ceromatic noctuid moth***
Pyreferra ceromatica

SC **Orange swallow moth**
Rhodoecia aurantiago

SC **Soldier fly**
Sargus fasciatus

SC **Noctuid moth**
Schinia spinosae

SC **Spongillafly**
Sisyra fuscata

SC **Regal fritillary***
Speyeria idalia

SC **Purse web spider***
Sphodros niger

SC **Lymnaeid snail**
Stagnicola catascopium

SC **Tabanid fly**
Stonemyia isabellina

SC **Piedmont groundwater amphipod**
Stygobromus tenuis

SC **Horse fly**
Tabanus fulvicallus

SC **Cicada***
Tibicen auletes

SC **Boreal turret snail***
Valvata sincera

SC **Turret snail**
Valvata tricarinata

E **Banded bog skimmer**
Williamsonia lintneri

T **Noctuid moth**
Zale curema

SC **Noctuid moth***
Zale metatoides

SC **Noctuid moth**
Zale obliqua

SC **Noctuid moth**
Zale submediana

* Extirpated
\+ Federally Endangered
^ Federally Threatened

PLANTS

E **Balsam fir^x**
Abies balsamea

SC **Virginia copperleaf***
Acalypha virginica

SC **Black maple**
Acer nigrum

E **Sandplain gerardia +**
Agalinis acuta

SC **Yellow giant hyssop***
Agastache nepetoides

SC **Purple giant hyssop**
Agastache scrophulariifolia

SC **Small-flowered agrimony**
Agrimonia parviflora

T **Orange foxtail**
Alopecurus aequalis

SC **Sea-beach amaranth***
Amaranthus pumilus

E **Roundleaf shadbush**
Amelanchier sanguinea

E **Bog rosemary**
Andromeda glaucophylla

E **Canada anemone**
Anemone canadensis

SC **Field pussytoes***
Antennaria neglecta
ssp. *petaloidea*

SC **Puttyroot***
Aplectrum hyemale

E **Dwarf mistletoe**
Arceuthobium pusillum

T **Smooth mountain sandwort**
Arenaria glabra

E **Large-leaved sandwort**
Arenaria macrophylla

E **Arethusa**
Arethusa bulbosa

SC **Green dragon**
Arisaema dracontium

T **Beach needlegrass**
Aristida tuberculosa

T **Virginia snakeroot**
Aristolochia serpentaria

E **White milkweed**
Asclepias variegata

SC **Green milkweed***
Asclepias viridiflora

T **Mountain spleenwort**
Asplenium montanum

T **Wallrue spleenwort**
Asplenium ruta-muraria

E **Blake's aster**
Aster X *blakei*

T **Bog aster**
Aster nemoralis

SC **Crooked-stem aster***
Aster prenanthoides

E **Rough-leaved aster**
Aster radula

T **Showy aster**
Aster spectabilis

E **Narrow-leaved glade fern**
Athyrium pycnocarpon

SC **Swamp birch**
Betula pumila

SC **Eaton's beggar-tick**
Bidens eatonii

SC **Hairy woodmint**
Blephilia hirsuta

SC **Little grape fern***
Botrychium simplex

E **Side-oats grama-grass**
Bouteloua curtipendula

SC **Sweet-scented indian-plantain***
Cacalia suaveolens

SC **Reed bentgrass**
Calamagrostis stricta
ssp. *inexpansa*

SC **Purple cress**
Cardamine douglassii

SC **Bronze sedge***
Carex aenea

SC **Summer sedge***
Carex aestivalis

E **Broadwing sedge**
Carex alata

SC **Foxtail sedge***
Carex alopecoidea

SC **Sedge**
Carex aquatilis var. altior

SC **Bailey's sedge***
Carex baileyi

SC **Barratt's sedge***
Carex barrattii

E **Brown bog sedge**
Carex buxbaumii

T **Chestnut-colored sedge**
Carex castanea

SC **Collins sedge***
Carex collinsii

E **Crawe's sedge**
Carex crawei

SC **Crawford sedge***
Carex crawfordii

SC **Clustered sedge***
Carex cumulata

E **Davis' sedge**
Carex davisii

T **Handsome sedge**
Carex formosa

SC **Sedge**
Carex hirsutella

SC **Hitchcock's sedge**
Carex hitchcockiana

E **Sedge**
Carex limosa

SC **False hop sedge**
Carex lupuliformis

SC **Sedge***
Carex magellanica

SC **Troublesome sedge***
Carex molesta

SC **Black-edge sedge***
Carex nigromarginata

SC **New England sedge***
Carex novae-angliae

E **Eastern few-fruited sedge**
Carex oligocarpa

SC **Few-seeded sedge***
Carex oligosperma

SC **Few-flowered sedge***
Carex pauciflora

E **Variable sedge**
Carex polymorpha

T **Prairie sedge**
Carex prairea

E **Cyperus-like sedge**
Carex pseudo-cyperus

T **Schweinitz's sedge**
Carex schweinitzii

SC **Dioecious sedge**
Carex sterilis

SC **Rigid sedge**
Carex tetanica

E **Little green sedge**
Carex viridula

SC **Willdenow's sedge***
Carex willdenowii

SC **Pretty sedge**
Carex woodii

SC **Wild senna**
Cassia hebecarpa

E **Indian paintbrush**
Castilleja coccinea

SC **American bittersweet**
Celastrus scandens

SC **Eastern redbud***
Cercis canadensis

E **Devil's-bit**
Chamaelirium luteum

E **Hairy lip-fern**
Cheilanthes lanosa

E **Sickle-leaved golden aster**
Chrysopsis falcata

E **Sea-coast angelica**
Coelopleurum lucidum

T **Early coralroot**
Corallorhiza trifida

T **Yellow corydalis**
Corydalis flavula

SC **Pygmyweed**
Crassula aquatica

SC **Elliptical rushfoil***
Crotonopsis elliptica

E **Slender cliff-brake**
Cryptogramma stelleri

SC **Hazel dodder***
Cuscuta coryli

SC **Wild comfrey***
Cynoglossum virginianum

SC **Ram's-head lady's-slipper***
Cypripedium arietinum

E **Showy lady's-slipper**
Cypripedium reginae

E **Dew-drop**
Dalibarda repens

SC **Dillen's tick-trefoil**
Desmodium glabellum

E **Trailing tick-trefoil**
Desmodium humifusum

SC **Sessile-leaf tick-trefoil***
Desmodium sessilifolium

T **Squirrel corn**
Dicentra canadensis

SC **Panic grass**
Dichanthelium ovale
var. *addisonii*

E **Panic grass**
Dichanthelium scabriusculum

SC **Panic grass***
Dichanthelium
sphaerocarpon var.
isophyllum

SC **Panic grass***
Dichanthelium xanthophysum

SC **Persimmon**
Diospyros virginiana

E **Saltpond Grass**
Diplachne maritima

SC **Whitlow-grass**
Draba reptans

E **Thread-leaf sundew**
Drosera filiformis

E **Mountain wood-fern**
Dryopteris campyloptera

T **Goldie's fern**
Dryopteris goldiana

E **Bur-head**
Echinodorus tenellus var. *parvulus*

E **Horse-tail spike-rush**
Eleocharis equisetoides

SC **Spike-rush***
Eleocharis microcarpa var. *filiculmis*

E **Spike-rush**
Eleocharis quadrangulata var. *crassior*

SC **Wiegand's wildrice***
Elymus canadensis var. *wiegandii*

SC **Slender wheatgrass**
Elymus trachycaulus ssp. *subsecundus*

SC **Marsh horsetail***
Equisetum palustre

SC **Meadow horsetail***
Equisetum pratense

T **Dwarf scouring rush**
Equisetum scirpoides

E **Parker's pipewort**
Eriocaulon parkeri

SC **Cotton bulrush***
Eriophorum alpinum

T **Hare's tail**
Eriophorum spissum

E **White thoroughwort**
Eupatorium album

E **Small white snakeroot**
Eupatorium aromaticum

E **Stiff mermaid-weed**
Floerkea proserpinacoides

SC **Bog bedstraw***
Galium labradoricum

T **Creeping snowberry**
Gaultheria hispidula

T **Dwarf huckleberry**
Gaylussacia dumosa var. *bigeloviana*

E **Stiff gentian**
Gentiana quinquefolia

SC **Bicknell's northern crane's-bill***
Geranium bicknellii

SC **Dwarf rattlesnake plantain***
Goodyera repens var. *ophioides*

SC **Bush rockrose***
Helianthemum dumosum

E **Low frostweed**
Helianthemum propinquum

SC **Sharp-lobed hepatica**
Hepatica nobilis var. *acuta*

E **Kidneyleaf mud-plantain**
Heteranthera reniformis

SC **Seabeach sandwort**
Honkenya peploides

SC **Featherfoil**
Hottonia inflata

E **Longleaf bluet**
Houstonia longifolia

E **Golden-heather**
Hudsonia ericoides

T **False beach-heather**
Hudsonia tomentosa

SC **Green violet***
Hybanthus concolor

E **Golden seal**
Hydrastis canadensis

SC **Virginia waterleaf**
Hydrophyllum virginianum

SC **Creeping St. John's-wort***
Hypericum adpressum

T **Great St. John's-wort**
Hypericum pyramidatum

T **Inkberry**[x]
Ilex glabra

SC **False pennyroyal***
Isanthus brachiatus

SC **Pitted quillwort***
Isoetes foveolata

E **Small whorled pogonia** +
Isotria medeoloides

SC **Weak rush***
Juncus debilis

E **Carolina redroot**
Lachnanthes caroliana

T **Labrador tea**
Ledum groenlandicum

SC **Creeping bush-clover**
Lespedeza repens

SC **Blazing star**
Liatris borealis

E **Scotch lovage**
Ligusticum scothicum

SC **Lilaeopsis**
Lilaeopsis chinensis

SC **Mudwort**
Limosella subulata

SC **Twinflower***
Linnaea borealis var. *americana*

SC **Sandplain flax***
Linum intercursum

SC **Yellow flax**
Linum sulcatum

E **Lily-leaved twayblade**
Liparis liliifolia

E **Dwarf bulrush**
Lipocarpha micrantha

SC **Sweet gum**[x]
Liquidambar styraciflua

SC **Many-fruited false-loosestrife***
Ludwigia polycarpa

E **Globe-fruited False-loosestrife**
Ludwigia sphaerocarpa

SC **Foxtail clubmoss***
Lycopodium alopecuroides

SC **Fir clubmoss***
Lycopodium selago

SC **Climbing fern**
Lygodium palmatum

SC **Stagger-bush***
Lyonia mariana

SC **Narrow loosestrife***
Lythrum lineare

E **White adder's-mouth**
Malaxis brachypoda

E **Green adder's-mouth**
Malaxis unifolia

SC **Hybrid bunchflower***
Melanthium hybridum

SC **Tall millet-grass***
Milium effusum

E **One-flower wintergreen**
Moneses uniflora

E **Red mulberry**
Morus rubra

E **Long-awn hairgrass**
Muhlenbergia capillaris

SC **Slender water-milfoil***
Myriophyllum alterniflorum

SC **Cutleaf water-milfoil***
Myriophyllum pinnatum

SC **Leafless water-milfoil***
Myriophyllum tenellum

SC **Naiad**
Najas guadalupensis

SC **Water lily***
Nymphaea odorataa var. *tuberosa*

SC **Sundrops***
Oenothera fruiticosa

E **Gravel-weed**
Onosmodium virginianum

T **Adder's-tongue**
Ophioglossum vulgatum

SC **Eastern prickly pear**
Opuntia humifusa

SC **Golden club**
Orontium aquaticum

SC **Slender mountain-ricegrass**
Oryzopsis pungens

SC **White wood-sorrel**
Oxalis montana

SC **Violet wood-sorrel**
Oxalis violacea

SC **American ginseng**
Panax quinquefolius

T **Panic grass**
Panicum amarum

SC **Tall flat panic-grass***
Panicum rigidulum var. *elongatum*

SC **Warty panic grass***
Panicum verrucosum

E **Field paspalum**
Paspalum laeve

SC **Bead grass***
Paspalum setaceum
var. *psammophilum*

E **Smooth cliff-brake**
Pellaea glabella

T **Sweet coltsfoot**
Petasites frigidus
var. *palmatus*

SC **Wild kidney bean***
Phaseolus polystachios
var. *aquilonius*

SC **Red spruce**[X]
Picea rubens

E **Red pine**[X]
Pinus resinosa

E **White-fringed orchid**
Platanthera blephariglottis

T **Yellow-fringed orchid**
Platanthera ciliaris

SC **Tall white bog orchid***
Platanthera dilatata

SC **Pale green orchid**
Platanthera flava

SC **Hooker's orchid***
Platanthera hookeri

SC **Large round-leaved orchid***
Platanthera orbiculata

SC **Threadfoot**
Podostemum ceratophyllum

SC **Clammy-weed***
Polanisia dodecandra

E **Nuttall's milkwort**
Polygala nuttallii

E **Seneca snakeroot**
Polygala senega

SC **Seabeach knotweed***
Polygonum glaucum

E **Small-flowered leafcup**
Polymnia canadensis

E **Swamp cottonwood**
Populus heterophylla

SC **Pondweed***
Potamogeton confervoides

SC **Water-thread pondweed***
Potamogeton diversifolius

SC **Fries' pondweed***
Potamogeton friesii

E **Hill's pondweed**
Potamogeton hillii

SC **Capillary pondweed***
Potamogeton pusillus
var. *gemmiparus*

E **Straight-leaved pondweed**
Potamogeton strictifolius

SC **Vasey's pondweed***
Potamogeton vaseyi

E **Three-toothed cinquefoil**
Potentilla tridentata

SC **Alleghany plum***
Prunus alleghaniensis

E **Grave's beach plum**
Prunus maritima
var. *gravesii*

E **Long-beaked bald rush**
Psilocarya scirpoides

SC **Goose grass***
Puccinellia langeana
ssp. *alaskana*

E **Basil mountain-mint**
Pycnanthemum
clinopodioides

E **Torrey mountain-mint**
Pycnanthemum torrei

E **Bur oak**
Quercus macrocarpa

E **Water-plantain spearwort**
Ranunculus ambigens

E **Seaside crowfoot**
Ranunculus cymbalaria

SC **Creeping spearwort***
Ranunculus reptans

SC **Cursed crowfoot**
Ranunculus sceleratus

SC **White water-crowfoot**
Ranunculus subrigidus

SC **Fragrant sumac***[X]
Rhus aromatica

E **Capillary beak-rush**
Rhynchospora capillacea

E **Beaked rush**
Rhynchospora macrostachya

SC **Skunk currant**
Ribes glandulosum

SC **Swamp black currant***
Ribes lacustre

SC **Wild currant***
Ribes rotundifolium

SC **Wild red currant***
Ribes triste

SC **Shining rose**
Rosa nitida

E **Toothcup**
Rotala ramosior

SC **Sand bramble**
Rubus cuneifolius

SC **Sea-side dock***
Rumex maritimus
var. *fueginus*

SC **Large marsh pink***
Sabatia dodecandra

SC **Waputo***
Sagittaria cuneata

SC **Arrowleaf**
Sagittaria montevidensis
ssp. *spongiosus*

SC **Arrowleaf**
Sagittaria subulata

T **Sandbar willow**
Salix exigua

E **Bog willow**
Salix pedicellaris

SC **Slender willow***
Salix petiolaris

SC **Autumn willow**
Salix serissima

E **Lizard's tail**
Saururus cernuus

E **Pod grass**
Scheuchzeria palustris

SC **Purple oat**
Schizachne purpurascens

SC **Chaffseed*+**
Schwalbea americana

T **Hard-stemmed bulrush**
Scirpus acutus

SC **Salt marsh bulrush**
Scirpus cylindricus

SC **Georgia bulrush**
Scirpus georgianus

SC **Long's bulrush***
Scirpus longii

SC **Bayonet grass**
Scirpus paludosus
var. *atlanticus*

T **Torrey bulrush**
Scirpus torreyi

SC **Few-flowered nutrush***
Scleria pauciflora
var. *caroliniana*

E **Reticulated nutrush**
Scleria reticularis

E **Nutrush**
Scleria triglomerata

SC **Low nutrush***
Scleria verticillata

SC **Hyssop skullcap**
Scutellaria integrifolia

E **Small skullcap**
Scutellaria leonardii

SC **Ragwort***
Senecio pauperculus

T **Three-leaved Solomon's-seal**
Smilacina trifolia

SC **Bristly greenbriar***
Smilax tamnoides var. *hispida*

SC **Elliott's goldenrod**
Solidago elliottii

E **Prairie goldenrod**
Solidago ptarmicoides

E **Stiff goldenrod**
Solidago rigida

E **Early wrinkle-leaved goldenrod**
Solidago rugosa
var. *sphagnophila*

SC **Floating bur-reed**
Sparganium fluctuans

SC **Small bur-reed***
Sparganium minimum

T **Canada sand-spurry**
Spergularia canadensis

SC **Little ladies'-tresses***
Spiranthes tuberosa
var. *grayi*

SC **Dropseed**
Sporobolus asper

SC	**Rough dropseed***	*Sporobolus clandestinus*
E	**Sand dropseed**	*Sporobolus cryptandrus*
E	**Northern dropseed**	*Sporobolus heterolepis*
SC	**Small dropseed***	*Sporobolus neglectus*
E	**Hyssop-leaf hedge-nettle**	*Stachys hyssopifolia*
SC	**Smooth hedge-nettle***	*Stachys tenuifolia*
T	**White mandarin**	*Streptopus amplexifolius* var. *americanus*
SC	**Yellow pimpernel***	*Taenidia integerrima*
T	**Northern white cedar**x**	*Thuja occidentalis*
SC	**Appalachian gametophyte**	*Trichomanes intricatum*✓
SC	**Narrow-leaved horse gentian***	*Triosteum angustifolium*
SC	**Nodding pogonia***	*Triphora trianthophora*
SC	**Spiked false oats***	*Trisetum spicatum* var. *molle*
E	**Spreading globe-flower**	*Trollius laxus*
SC	**Two-flower bladderwort***	*Utricularia biflora*
SC	**Fibrous bladderwort***	*Utricularia fibrosa*
SC	**Bladderwort***	*Utricularia resupinata*
E	**Large-flowered bellwort**	*Uvularia grandiflora*
SC	**Velvetleaf blueberry***	*Vaccinium myrtilloides*
SC	**Mountain cranberry***	*Vaccinium vitis-idaea* var. *minus*
SC	**Beaked corn-salad***	*Valerianella radiata* var. *fernaldii*
SC	**Possum haw***	*Viburnum nudum*
SC	**Smooth black-haw**	*Viburnum prunifolium*
E	**Coast violet**	*Viola brittoniana*
T	**Canada violet**	*Viola canadensis*
SC	**Southern wood violet***	*Viola hirsutula*
SC	**Northern bog violet***	*Viola nephrophylla*
SC	**Kidney-leaf white violet**	*Viola renifolia* var. *brainerdii*
SC	**Great-spurred violet***	*Viola selkirkii*
SC	**Striped violet***	*Viola striata*
SC	**New England grape**	*Vitis novae-angliae*
E	**Barren strawberry**	*Waldsteinia fragarioides*
E	**Northern yellow-eyed grass**	*Xyris montana*
E	**Small's yellow-eyed grass**	*Xyris smalliana*
SC	**Horned pondweed**	*Zannichellia palustris*
E	**Golden alexanders**	*Zizia aptera*

* Extirpated
\+ Federally Endangered
x Native Populations Only
✓ Previously listed as *Trichomanes* sp.

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The Natural Diversity Data Base
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Bog Copper
Eastern Spadefoot
Shortnose Sturgeon
Bog Turtle
Least Shrew
Upland Sandpiper
Small-whorled Pogonia

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For further information please contact:

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Fisheries Division
79 Elm Street
Hartford, CT 06106
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Forestry
79 Elm Street
Hartford, CT 06106
(203) 566-5348

FEDERAL PROTECTED SPECIES INFORMATION

United States Department of the Interior

FISH AND WILDLIFE SERVICE
New England Field Offices
22 Bridge Street, Unit #1
Concord, New Hampshire 03301-4986

March 16, 1994

Jim Duncan
ENSR Consulting and Engineering
35 Nagog Park
Acton, MA 01720

Dear Mr. Duncan:

This responds to your letter dated January 21, 1994 requesting information on the presence of Federally listed and proposed endangered or threatened species in relation to 39 Army Reserve Centers in New England. The centers reviewed occur in: Connecticut (8), Maine (3), Massachusetts (12), New Hampshire (5), Rhode Island (7) and Vermont (4).

Based on information currently available to us, no Federally listed or proposed threatened and endangered species under the jurisdiction of the U.S. Fish and Wildlife Service are known to occur in the project area, with the exception of occasional transient endangered bald eagles (Haliaeetus leucocephalus) or peregrine falcons (Falco peregrinus anatum). However, we suggest that you contact the following for information on state listed species that may be present:

Nancy Murray
Connecticut Natural Diversity Data Base
79 Elm St., P.O. Box 5066
Hartford, CT 06106-5066
203-566-3540

Sue Gawler
Maine Natural Areas Program
State House Station 130
Augusta, Maine 04333
(207) 289-6800

Pat Huckery
Massachusetts Natural Heritage Program
Division of Fisheries and Wildlife
100 Cambridge St., Boston, MA 02202
(617) 727-9194

David Moore
New Hampshire Natural Heritage Inventory Program
P.O. Box 856, Concord, New Hampshire 03302-0856
(603) 271-3623

Rick Enser
Rhode Island Natural Heritage Program
83 Park St.
Providence, RI 02903
(401) 277-2776,

Chris Fichtel
Vermont Natural Heritage Program
Agency of Natural Resources
10 South, 103 S. Main St.
Waterbury, VT 05676
(802) 244-7331

Lists of Federally designated endangered and threatened species in all of the New England state are included for your information. Thank you for your cooperation and please contact Susi von Oettingen of this office at (603) 225-1411 if we can be of further assistance.

Sincerely yours,

for Gordon E. Beckett
Supervisor
New England Field Offices

Enclosures

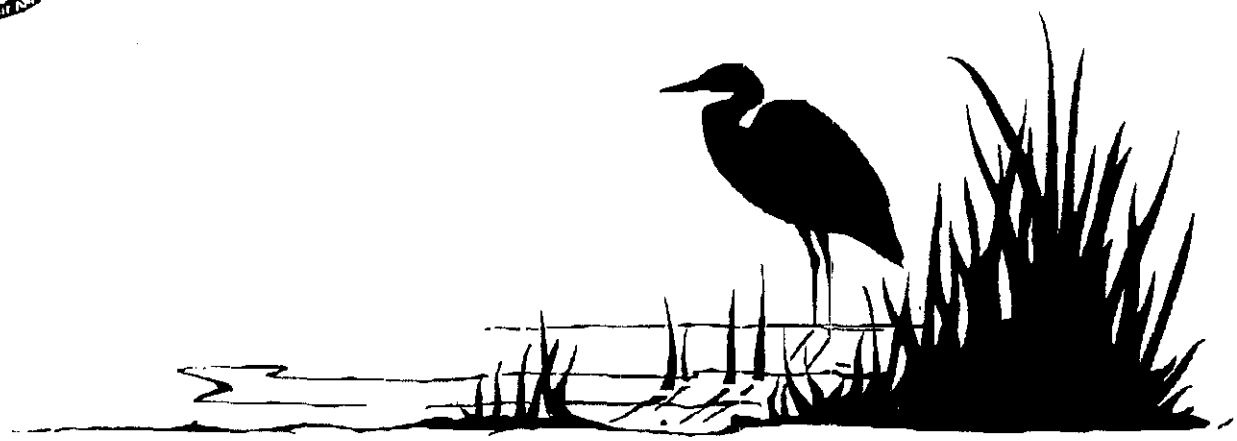
FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES IN CONNECTICUT

Common Name	Scientific Name	Status	Distribution
FISHES:			
Sturgeon, shortnose*	Acipenser brevirostrum	E	Connecticut River & Atlantic Coastal Waters
REPTILES:			
Turtle, green*	Chelonia mydas	T	Oceanic straggler in southern New England
Turtle, hawksbill*	Eretmochelys imbricata	E	Oceanic straggler in southern New England
Turtle, leatherback*	Dermochelys coriacea	E	Oceanic summer resident
Turtle, loggerhead*	Caretta caretta	T	Oceanic summer resident
Turtle, Atlantic ridley*	Lepidochelys kempii	E	Oceanic summer resident
BIRDS:			
Eagle, bald	Haliaeetus leucocephalus	E	Hartford, entire state-migratory
Falcon, American peregrine	Falco peregrinus anatum	E	No current nesting; entire state-migratory
Falcon, Arctic peregrine	Falco peregrinus tundrius	T	Entire state migratory-no nesting
Plover, Piping	Charadrius melodus	T	Atlantic coast
Roseate Tern	Sterna dougallii dougallii	E	Atlantic coast
MAMMALS:			
Whale, blue*	Balaenoptera musculus	E	Oceanic
Whale, finback*	Balaenoptera physalus	E	Oceanic
Whale, humpback*	Megaptera novaeangliae	E	Oceanic
Whale, right*	Eubalaena spp. (all species)	E	Oceanic
Whale, sei*	Balaenoptera borealis	E	Oceanic
Whale, sperm*	Physeter catodon	E	Oceanic
MOLLUSKS:			
Mussel, dwarf wedge	Alasmidonta heterodon	E	Hartford County
INSECTS:			
Beetle, puritan tiger	Cicindela puritana	T	Middlesex, Conn. River Valley
Beetle, northeastern beach tiger	Cicindela dorsalis dorsalis	T	Extirpated, coastal beaches
PLANTS:			
Small Whorled Pogonia	Isotria medeoloides	E	Hartford, New Haven, Fairfield, New London, Windham, Tolland, Middlesex, Litchfield Counties
Sandplain Gerardia	Agalinus acuta	E	Hartford (Historic)

* Except for sea turtle nesting habitat, principal responsibility for these species is vested with the National Marine Fisheries Service

Rev. 11-12-92

DEPARTMENT OF THE ARMY
HEADQUARTERS, FORT DIX
FORT DIX, NEW JERSEY



ENVIRONMENTAL DIVISION

FROM: Joe Schwartz

ENVIRONMENTAL DIVISION
TELEPHONE # (609) 562-3050
FAX # (609) 562-5345
AFZT-EHN
DSN: #944-3050
DSN: #944-5345

TRANSMISSION OP'S INITIALS

TO: 94th RSC
ATTN: AFRC-CMA-EN-E, Bldg 695
Greg Kelley
NAME/OFFICE SYMBOL/INSTALLATION

FAX AREA CODE# (508)
FAX # 796-2607

VOICE ARE CODE # (508)
VOICE # 796-2606

CLASSIFICATION	NO. OF PAGES
UNCL	4

REMARKS Greg
As I promised yesterday
Here are our findings & recommendations on the Fairfield UST problem

Joe Schwartz

AFZT-EHN 28 FEBRUARY, 1997

MEMORANDUM FOR COMMAND, 94th RSC, ATTN: AFRC-CMA-EN-E, BLDG. 695, (Greg Kelley), Devens RFTA, MA. 01433-4000

SUBJECT: Advanced Survey Report on Leaking Underground Storage Tank (UST)

1. On Tuesday, 25 February 1997 a comprehensive facility assessment survey was conducted at the 1LT. John Turner USAR Center, Fairfield Connecticut by the Fort Dix Regional Public Works Directorate inspection team.

2. The following observations were made by the team:

a. Upon arrival at the center a tank truck pumper was observed preparing to pump out a UST located behind the main building.

b. During an in briefing meeting it was disclosed that the heating plant for the main building had been changed from fuel oil to gas fired some time back. The old UST supply fuel tank was still in the ground and was to be pumped out that day. Later in the spring it was planned to be pulled by the Directorate of Engineering and Housing (DEH) out of Devens.

c. Upon inspection of the basement machinery / boiler room, it was found to have a wet floor with oil absorbent pads lined along the floor perpendicular to the outside wall.

d. A definite smell of fuel oil was in the room.

e. Black stain marks were present on the floor and the outside wall a few inches above floor level. There was a definite presentence of a diluted wet substance infiltrating through the wall and floor. When touched the substance felt oily.

f. The old heating fuel oil UST is buried approximately 200 ft. up gradient from the outside wall of the machinery / boiler room.

3. Assumption:

a. Since no reports have been documented on petroleum spills in either the basement machinery room or the nearby POV parking lot. The probable source is the old UST fuel tank that had just been pumped out.

4. Concerns:

a. There is a parking lot storm drain catch basin in close proximity between the UST and the machinery / boiler room outside wall. The catch basin or its piping system could have cracks in it allowing fuel oil to migrate from the potentially leaking UST to be transported out to the nearby drainage stream which drains into the local pond / lake. The storm drain pipe opening running under the street across from the center showed no freely flowing product coming through with the water flow. The water looked clear but, a few still puddles located just above the stream flow level did show evidence of oily sheens.

b. The indications of infiltration in the basement machinery / boiler room could be a fair indicator of the leakage penetration depth, and could be an indicator to the extent of the plum which could even extend under the main building and beyond (depending upon how long the tank has been leaking).

5. Recommendations:

a. Pull the UST as soon as possible, inspect, test and dispose of in accordance with appropriate Federal, State and Local requirements.

b. Take soil samples under where the tank was, also up and below gradient of the tank's position in the excavation pit.

c. If test results show, evidence of tank leakage, sink required number monitoring wells for additional characterization of plum size and flow direction.

d. Plan and remediate accordingly.

6. Cost Estimate:

a. Ball Park $ 50K

b. Based on the assumption:

- 5,000 gallon size UST

- Soil remediation is limited to 560 tons

- Tank pull, staging, and disposal

- Soil testing

- Permits and closure plan

- Back fill, grading, and grass reseeding

- Any additional would be extra

7. It is hoped that these observations, conclusions, recommendations, and ball park estimate will assist you in planning and appropriating funds for this project. If we can be of any further assistance, such as: preparing a contract, contracting out, and contract administration on this project or any other need, please feel free to contact us.

8. POC on this matter is Mr. Thomas Lynn at RDPW-Production Control at (609) 562-6850/ 4370

Sincerely,

JOSEPH J. SCHWARTZ, JR.
Environmental Protection Specialist

FINAL

ASBESTOS SURVEY REPORT
AND OPERATIONS AND MAINTENANCE PLAN
FIRST LT. JOHN S. TURNER ARMY RESERVE CENTER
180 HIGH STREET
FAIRFIELD. CONNECTICUT

CONTRACT NO. DACA33-91-D-0006
DELIVERY ORDER NO. 42

JUNE 1998

ASBESTOS SURVEY REPORT

AND

OPERATIONS AND MAINTENANCE PLAN

FIRST LIEUTENANT JOHN S. TURNER ARMY RESERVE CENTER

180 HIGH STREET

FAIRFIELD, CONNECTICUT

CONTRACT NO. DACA33-91-D-0006

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ASBESTOS SURVEY REPORT

AND

OPERATIONS AND MAINTENANCE PLAN

FIRST LIEUTENANT JOHN S. TURNER ARMY RESERVE CENTER

180 HIGH STREET

FAIRFIELD, CONNECTICUT

Conducted for:

Harding Lawson Associates
(formerly ABB Environmental Services, Inc.)
Corporate Place 128
107 Audubon Road
Wakefield, Massachusetts 01880

Surveys Performed by::

Covino Environmental Consultants, Inc.
300 Wildwood Avenue
Woburn, Massachusetts 01801

CEC Project 94.01163.24

CONTENTS

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EXECUTIVE SUMMARY

The U.S. Army Corps of Engineers retained ABB Environmental Services, Inc. (ABB-ES) of Wakefield, Massachusetts to perform asbestos surveys of 41 Army Reserve Centers (ARCs) throughout New England during September, October, November, and December, 1994. ABB-ES sub-contracted with Covino Environmental Consultants, Inc. (CEC) to accomplish this task.

The objective of this task is twofold. First, the site-specif%: surveys will provide the Army with information concerning the extent of asbestos-containing building materials (ACBM) at each facility, a hazard assessment, and an operations and maintenance (O&M) plan to properly address potential concerns. Second, the summary reports prepared for each facility will provide the information necessary to plan future remediation efforts at the facilities on a worst-fust basis.

The facility surveyed for this report was the First Lieutenant John S. Turner ARC, 180 High Street, Fairfield, Connecticut. The facility consists of a Main Building and a Maintenance Building (OMS).

The Main Building at the site is used primarily for offices, classrooms, and a drill hall. The heating, ventilation, and air conditioning (HVAC) system includes a combination of radiators and *air* handlers supplied by an oil-fired boiler. The Main Building contains 14,000 square feet of floor space. Its date of construction is unknown.

The OMS is used for maintenance. The date of construction of the OMS is unknown. The OMS contains 3,800 square feet of floor space. The only HVAC in the building are gas-fired, ceiling-mounted blower units.

Timothy Downey and Benjamin Lombard of CEC conducted the survey on September 27, 1994. The CEC inspectors performed visual inspections of all accessible interior areas, exterior areas, and rooftop areas. Observations were made for thermal system insulations, surfacing materials, and miscellaneous materials within mechanical spaces, office areas, classrooms, and maintenance areas. Whenever feasible, the spaces above suspended ceilings, within wall chases, high bay areas, etc., were also inspected. No destructive sampling was conducted as part of this survey.

Representative bulk samples of each type of suspect ACBM observed were collected for laboratory analysis. To determine asbestos content, the samples were analyzed using Polarized Light Microscopy with Dispersion Staining (PLM/DS) in accordance with EPA protocol. Suspect materials were classified as ACBM if the analytical results indicated an asbestos content of greater than one percent.

EXECUTIVE SUMMARY (cont.)

Only nonfiiable ACM were identified at the site. Nonfriable ACBM included mastic below floor tiles in the kitchen, basement hallway, and in two basement offices in the Main Building, and window putty in the OMS. Floor tiles and underlying mastic adhesive in a basement storage area are assumed to be ACBM.

CEC's assessment of the Fairfield site is that the condition of most ACBM presents limited potential hazard. The ACBM are in fair condition and are not readily susceptible to disturbance and fiber release. Based on the results of the assessment, no remedial actions are recommended at this One. However, to minimize potential hazards, the O&M plan (Appendix F) should be implemented.

In addition, CEC revisited the site on June 26, 1996 to conduct a quality control visual inspection. No additional suspect materials were identified during the quality control visit.

For informational purposes only, *cost* estimates have been provided for removing and replacing ACBM (Table 3). The total estimated cost for removing and replacing ACBM is $1 1,863.

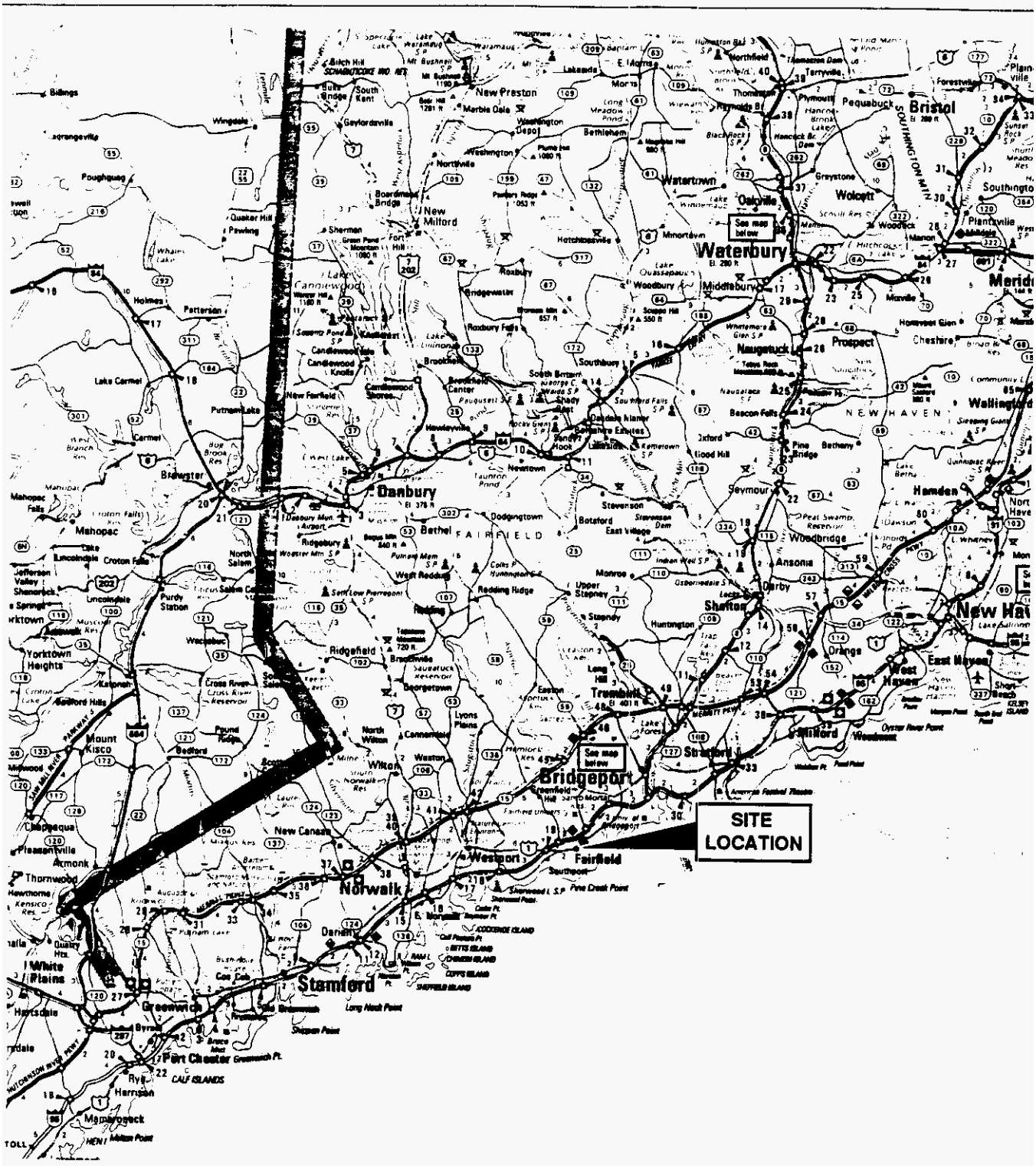
LIMITATIONS

Although the survey was fairly comprehensive in scope, due to several limitations further survey work will be required if future renovation or maintenance activities occur which result in demolition of any part of the existing building structure. These limitations include:

A. Since no core samples of roofing material were collected, only exposed surfaces of the roof were inspected;

B. Potentially hidden areas, such as wall cavities, the space between fixed ceilings and the ceiling deck, internal equipment and parts, etc. may contain ACBM that was not accessible during the survey; and,

C. The inner cavity of fire doors, which sometimes contains ACBM insulation, were not inspected.



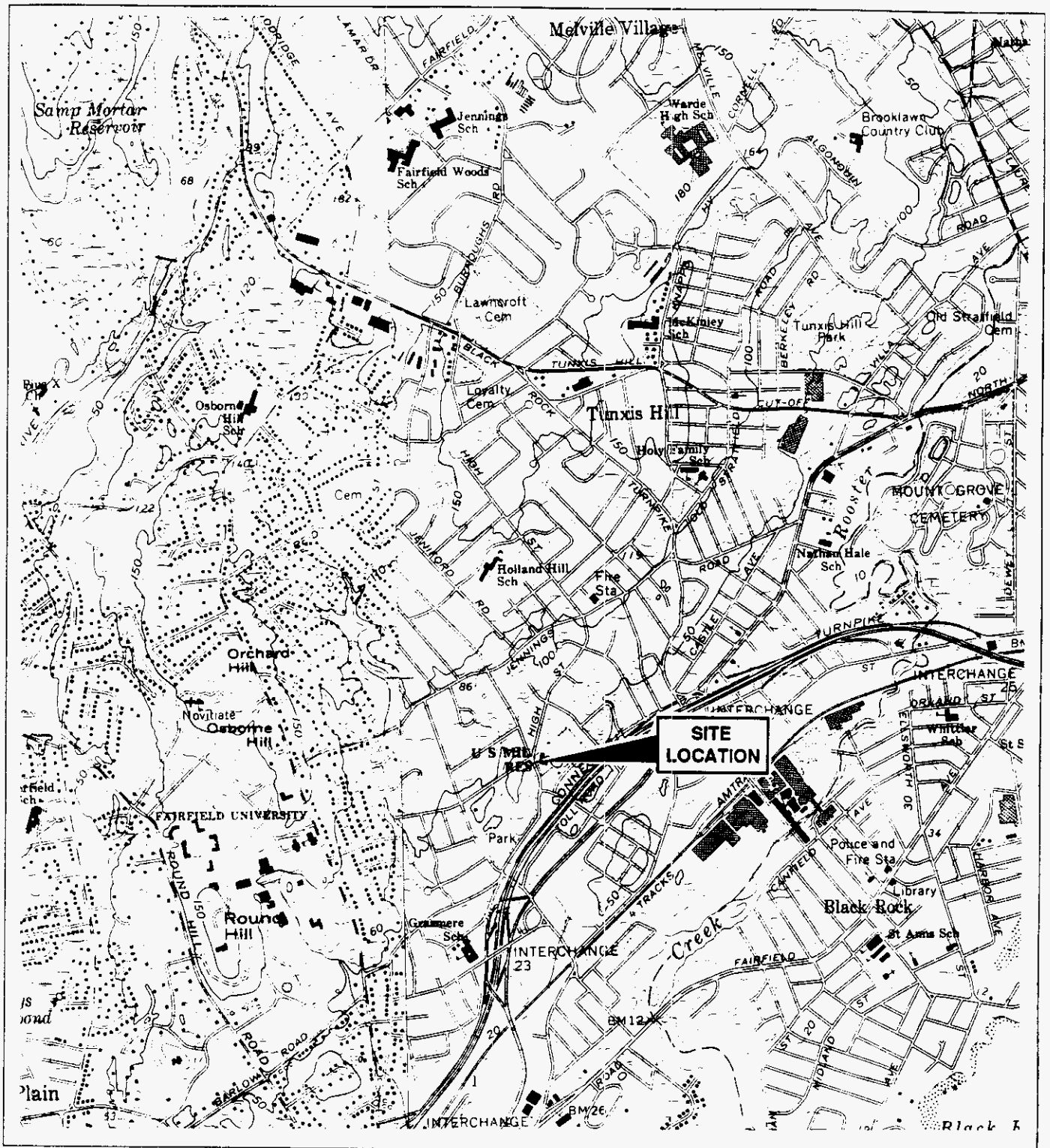
MAP DERIVED FROM RAND McNALLY

SCALE IN MILES

N

ABB ABB Environmental Services, Inc.

FIGURE 1
VICINITY MAP
.ASBESTOS SURVEY REPORT
LIEUTENANT JOHN S. TURNER USARC
FAIRFIELD, CT



QUADRANGLE LOCATION

SOURCE: U.S.G.S. TOPOGRAPHIC MAP
7.5 MINUTE SERIES:
BRIDGEPORT, CT 1970 PH. 1984
WESTPORT, CT 1960 PH. 1971

SCALE IN MILES 0 .5 1

SCALE IN FEET 0 1,000 2,000

N

ABB Environmental Services, Inc.

FIGURE 2
SITE LOCATION
ASBESTOS SURVEY REPORT
LIEUTENANT JOHN S. TURNER USARC
FAIRFIELD, CT

GLOSSARY

1 Asbestos - Includes chrysotile, amosite, crocidolite, tremolite asbestos, anthophyllite asbestos, actinolite asbestos, and any of these materials that have been chemically treated and/or altered

2. Asbestos-Containing Material (ACM) - material composed of asbestos of any type and in any amount greater than 1% by area, either alone or mixed with other fibrous or nonfibrous materials.

3 Asbestos-Containing Building Material (ACBM) - Surfacing ACM, thermal system insulation ACM or miscellaneous ACM that is observed in or on interior structural members or other parts of a building.

4. Asbestos-Contaminated Area - Any surface/area where visibly damaged friable asbestos material is present.

5. Bulk Sample - A small portion of suspect ACM collected and placed into an airtight container for microscopic analysis.

6. Cellulose - Vegetative, plant fibers; paper, cotton, etc:.

7. Fibrous Glass - Man made; spun or extruded from a resin

8. Friable Asbestos Material - Any ACM that can be crumbled, pulverized or reduced to powder when dry, by hand pressure, and which releases asbestos particles to the environment.

9. Homogenous Area - A material that is uniform in texture and appearance, was installed at one time, and is unlikely to consist of more than one type or formulation of material.

10. Miscellaneous ACM - Any ACM which is not categorized as thermal system insulation or surfacing insulation.

11. Nonfriable Asbestos Material - Any ACM that cannot be crumbled, pulverized or reduced to powder when dry, by hand pressure.

GLOSSARY (cont.)

12. Point Counting - A microscopic method of bulk sample analysis using a systematic, statistical approach to determine the percentage concentration of asbestos in a friable suspect ACM.

13. Polarized Light Microscouy - An optical microscopic technique used to distinguish between different types of asbestos fibers by their shape and unique optical properties.

14. Resinously Bound Material - A material which is held together in a resinous matrix (eg., mastic adhesive, roof flashing, etc.).

15. Surfacing ACM - An ACM which is spray or trowel-applied to a surface for acoustical, decorative or fireproofing purposes

16. Transmission Electron Microscopy (TEM) - A method of microscopic analysis which utilizes an electron beam that is focused onto a thin sample. As the beam penetrates (transmits) through the sample, the difference in densities produces an image on a fluorescent screen from which asbestos structures can be identified and quantified.

17. Thermal Svstem Insulation ACM (TSI) - Any ACM which is applied to heating or mechanical equipment for the purpose of retaining heat or condensation.

18. Transite - An asbestos-cement board product. Typically applied in cooling towers, above heating elements, beneath wood floors, as wall board

INTRODUCTION

The U.S. Army Corps of Engineers retained ABB Environmental Services, Inc. (ABB-ES) of Wakefield, Massachusetts to perform asbestos surveys of 41 Army Reserve Centers (ARCs) throughout New England during September, October, November, and December, 1994. ABB-ES sub-contracted with Covino Environmental Consultants, Inc. (CEC) to accomplish this task.

The purpose of these surveys is to identify, quantify, and assess materials at each site that are suspected of containing asbestos fibers and, when asbestos-containing building materials (ACBM) are identified, to prioritize their need for removal.

On September 27, 1994, two inspectors representing CEC performed an asbestos survey of the 1st Lt. John S. Turner ARC located at 180 High Street, Fairfield, Connecticut.

Timothy Downey performed the survey assisted by Benjamin Lombard. Each inspector is appropriately accredited to perform building inspections through having successfully completed an EPA-approved asbestos inspection training course.

On the day of the inspection, the survey team met with the facility manager, who provided information regarding the site as well as access to the buildings.

This report contains a description of the site (section 1), a discussion of the sampling methods (section 2), and of the laboratory analytical methods and results (section 3) and conclusions and recommendations (section 4).

The results of the survey are summarized in tabular form (section 3). Table 1, the Inventory of Suspect ACBM, provides a list of all suspect ACBM encountered by the CEC inspectors during the survey, the locations in which the materials were observed, their sample number(s), the materials' friability, and the analytical results for each type of suspect material. A suspect material was classified as ACBM if PLM/DS analysis of one or more samples indicated the presence of asbestos in quantities greater than one percent.

Table 2, the Inventory of ACBM, presents the list of positively identified ACBM, including material location, condition, and accessibility. The assessment rating for exposure to each type of ACBM is based on the United States Army Environmental Center (USAEC) prioritization criteria.

INTRODUCTION (cont.)

CEC's conclusions and recommendations are stated in the section **4.** Table **3** presents CEC's cost estimates for totally removing and replacing ACBM identified during the **survey.**

Appendices **A** through F present bulk sample analytical results, drawings depicting locations of samples and of ACBM, photographic documentation, asbestos prioritizations forms, personnel and laboratory certifications, and the operations and maintenance plan.

1. SITE DESCRIPTION

The 1st Lt. John S. Turner Army Reserve Center in Fairfield, Connecticut consists of a Main Building and a Maintenance Building (OMS). No plans are available for either building.

The Main Building contains one floor and a basement with total floor space of 14,000 square feet. The building is used primarily for offices, storage rooms, and classrooms, and it also contains an assembly hall. The building is a concrete structure with brick exterior. The first floor has a hardwood floor; the basement has a concrete floor. Budding finishes include gypsum-board ceilings and walls throughout most areas. Floor finishes were vinyl and ceramic tile.

Heating is supplied in the Main Building by two boilers located in a boiler room in the basement and distributed through forced hot water supply-and-return piping to perimeter radiators. No suspect ACBM associated with the heating system were noted.

Nonfriable ACBM identified within the Main Building included mastic underlying gray 9"x9" floor tiles in the basement comdor and in two basement offices, and mastic underlying brown 9" x 9" floor tiles in the kitchen. Red 9" x 9" floor tile and underlying mastic adhesive in a basement storage area are assumed to be ACBM. No friable ACBM were noted in the Main Building.

The OMS is a one-story structure used for maintenance work. The building is a wood-frame structure with 3,800 square feet of floor space. It has concrete block walls and concrete floors. The building is heated by two ceding-mounted blower units.

Nonfhable ACBM observed in the OMS included white window putty on the rear windows. No friable ACBM were noted in the OMS Building.

2. SAMPLING METHODS

The purpose of the survey was to identify both friable and nonfriable ACBM at the site.

In the course of collecting random bulk samples for laboratory analysis, every effort was made to identify all locations and types of suspect ACBM. All building materials other than wood, plastic, metal, rubber, glass, and most masonry products were considered to be suspect ACBM. Sampling often included multiple samples of the same type of material because inconsistencies in manufacturing processes and installation practices may have resulted in materials of similar construction having varied asbestos content.

Both the interior and exterior of each building were inspected. The survey included observations for the following types of suspect ACBM:

thermal system insulation on pipes, tanks, boilers, and similar items,

surfacing materials such as acoustical and decorative plasters, fireproofing on beams, columns, and ceiling decks, and other coatings applied by spray or trowel;

miscellaneous fiiable materials such as ceiling: tiles, gypsum wallboards, joint compounds, cloth gaskets, blown-in insulations, etc.; and

miscellaneous nonfriable materials such as floor tiles, adhesives, cementitious wallboards, asphaltic roofing materials, etc.

To prevent the potential for future water leaks, bulk samples of asphaltic roofing materials were collected in such a manner that the integrity of the roofing system was not compromised. This was conducted by only collecting samples of flashings, shingles or the surface layer. Core sampling through the entire thickness of roofing systems was not performed. Asphaltic roofing materials that were not sampled should be assumed to contain asbestos, unless bulk sampling and analysis indicate otherwise.

Some friable building materials, such as fireproofing and most thermal insulations installed in 1980 or later, were not considered to be suspect ACBM:. Stored materials (gaskets, brake pads, gloves, etc.) that may contain asbestos but are not building materials were not included in the survey.

Since asbestos content of building materials was to be determined by the laboratory analysis of random bulk samples (RBS), CEC used a sampling protocol based on the following requirements of the Asbestos Hazard Emergency Response Act **(AHERA):**

2. SAMPLING METHODS (cont.)

A. Surfacing Material

1. At least three (3) RBS per type of material in each homogeneous area less than or equal to one thousand square feet (1,000 ft^2).

2. At least five (5) RBS per type of material in each homogeneous area greater than one thousand square feet (1,000 ft^2), but less than or equal to five thousand square feet (5,000 ft^2).

3. At least seven (7) RBS per type of material in each homogeneous area greater than five thousand square feet (5,000 ft^2).

B. Thermal System Insulation

1. At least three (3) RBS per type of homogeneous material.

2. At least one (1) RBS per type of patched thermal system insulation if the patched section is less than six linear feet or square feet (6 lf or 6 ft^2).

3. In a manner sufficient to determine whether the material is or is not ACBM, RBS from each mechanical system where cement or plaster is used on fittings such as tees, elbows, or valves.

4. Bulk samples were not collected of materials determined by visual and tactile inspection to be fiberglass, foam glass, rubber, or other materials because with their unique textures and colors, they may be visually identified as non-ACBM. However, these materials are inspected to determine whether a layer of asbestos may be underneath the top layer of insulating material or whether an external skim coat exists.

C. Miscellaneous Material

Samples were collected in a manner sufficient to determine whether the material is ACBM or non-ACBM. The number of samples collected was influenced by the type and quantity of the suspect material.

2. SAMPLING METHODS (cont.)

Bulk sampling of suspect building materials was performed by collecting a small but representative portion of material into plastic vials with tightly fitting caps that were sealed immediately after sample collection. Insulation and other friable samples were collected using a knife with a lockable blade or a single-use hollow metal coring device. After sample collection, sampling devices were immediately cleaned to prevent cross-contamination of samples. Each sample was assigned a unique number that was recorded on the sample container. The sample number and location were also recorded on field data sheets. The locations from which bulk samples were collected were sealed with duct tape, caulking compound, or other suitable materials. Sample locations were labeled with the date and unique sample number using indelible markers. Samples were then transported and submitted to the CEC laboratory in Woburn, Massachusetts for microscopic analysis.

3. LABORATORY ANALYTIC METHODS

Laboratory analyses were conducted on October 20, 1994

In order to identify asbestos content, samples were analyzed using Polarized Light Microscopy with Dispersion Staining (PLM/DS) in accordance with the United States Environmental Protection Agency's (EPA) Interim Method for the Determination of Asbestos in Bulk Insulation Samples (EPA 600/M4-82-020). A building material was classified as ACBM if one or more samples indicated a result of greater than one percent (> 1%) asbestos.

In instances where multiple bulk samples were collected from the same homogeneous area, if the analytical result of the initial sample indicated the presence of asbestos at a concentration greater than one percent, subsequent bulk samples were not analyzed.

The EPA method is considered sensitive to the presence of asbestos at less than one percent of the overall sample composition for materials (a) that do not contain resinous matrices, and (b) that have asbestos fibers greater than one micrometer in diameter (> 1 µm).

For resinously bound materials, or for materials that may have very thin asbestos fibers (< 1 µm), PLM/DS analysis may yield false negative results due to difficulties in separating suspect fibers from the resins that bind them. False negative results may also occur when the analyst is unable to detect very fine fibers due to the limits of resolution of the microscope used for PLM/DS analysis. Samples of floor tiles and floor tile adhesives are particularly difficult to analyze using PLM/DS. These materials contain resinous matrices, and they also typically contain very thin fibers due to grinding and other shearing processes conducted during manufacture. To positively identify the asbestos content of these types of materials, Transmission Electron Microscopy (TEM) is the preferred method. TEM provides greater resolution along with an elemental analysis of suspect fibers to identify asbestos.

Because of the aforementioned limitations of PLM/DS, samples of floor tiles and floor tile mastics were analyzed by TEM if the initial analytical results indicated an asbestos content of one percent or less. Briggs Associates, Inc., of Atlanta, Georgia conducted the TEM analysis using a semi-quantitative analysis. Results are reported as no asbestos detected, or as a light, moderate or heavy concentration of asbestos. If any asbestos is detected using this method, the material in all probability contains greater than one percent and is therefore, classified as an ACBM.

The EPA requires that samples of friable materials having an asbestos content of ten percent or less, as determined by visual estimation, be verified by the point-counting technique. Otherwise, the building owner or operator should assume that such materials

3. LABORATORY ANALYTIC METHODS (cont.)

contain greater than one percent asbestos. Therefore, friable samples with analytical results containing one percent or less asbestos should be analyzed by point-counting before disturbing the material. Point-counting is a systematic technique for estimating asbestos concentrations using PLM/DS.

A summary of the laboratory results are presented in Table 1, and the complete laboratory results are included in Appendix A.

In addition to identifying asbestos content, the survey quantified and assessed all ACBM identified at the site. Each type of ACBM was individually assessed using the United States Army Environmental Center (USAEC)-ACBM Assessment Checklist in order to determine priorities for remedial action. This checklist evaluates a suspect material based on damage factors and release factors. Damage factors include the physical condition of the materials, water damage, potential for human contact in terms of maintenance activity, type of material, and asbestos content. Release factors include friability, accessibility, activity, air movement, quantity, population potentially affected, and asbestos content. For each assessment factor, a numerical score is given. The numerical scores for both assessment categories have been totaled. In order to determine the Assessment Index (a letter designation from A to F), these totals are Compared. "A' indicates a material with the highest priority for remedial action. "F" indicates a material with the lowest priority for remedial action. The results of this assessment/inventory are presented in Table 2.

TABLE 1

INVENTORY OF SUSPECT ACBM

1st Lt. John S. Turner USARC
180 High Street
Fairfield, Connecticut

September 27,1994

Description of Suspect Material MAIN BUILDING	Material Location	Material Classification	Friability	Sample Number(s)	Asbestos Content and Type
White 12" x 12" floor tile and underlying mastic adhesive	Vestibule, Lobby	M	Nonfriable	24-01-01 (tile) 24-02-01 (mastic)	None detected TEM none detected < 0 1% Chrysotile TEM none detected
Brown 9" x 9" floor tile and underlying mastic adhesive	Kitchen	M	Nonfriable	24-03-01 (tile) 24-04-01 (mastic)	None detected TEM none detected None detected TEM Moderate Chrysotile
Ceramic tile grout	Bathrooms	M	Nonfriable	24-05-01	None detected
Black vinyl baseboard	Throughout	M	Nonfriable	24-06-01	None detected
White gypsum board	Throughout	M	Friable	24-07-01 24-07-02 24-07-03 24-07-04	None detected None detected None detected None detected

T = Thermal System Insulation
S = Surfacing Material
M - Miscellaneous Material

TABLE 1

INVENTORY OF SUSPECT ACBM

1st Lt. John S. Turner USARC
180 Eigh Street
Fairfield, Connecticut

September 27, 1994

Description of Suspect Material	Material Location	Material Classification	Friability	Sample Number(s)	Asbestos Content and Type
MAIN BUILDING					
Gray 9" x 9" floor tile and underlying mastic adhesive	Basement, Hallway and Offices	M	Nonfiiable	**24-08-01** **24-09-01**	01% Chrysotile **02%** Chrysotile
White joint compound	Throughout	M	Nonfriable	**24-10-01** **24-10-02**	None detected None detected
Black 9" x 9" floor **tile** and underlying mastic adhesive	Basement storage Room	M	Nonfriable	**24-11-01** (tile) **24-12-01** (mastic)	None detected TEM none detected None detected TEM none detected
Red 9" x **9" floor** tile and underlying mastic adhesive	Room #107B	M	Nonfriable	24-13-01 (tile) **24-14-01** (mastic)	None detected* None detected*
Brown 9" x 9" floortile and underlying mastic adhesive	Room #107B	M	Nonfiiable	**24-15-01 (tile)** **24-16-01** (mastic)	< 01% Chrysotile TEM None detected None detected TEM None detected

T – Thermal System Insulation
S = Surfacing Material
M = Miscellaneous Material

* TEM **analysis was not** conducted on this tile **and** mastic sample. While **it is** likely that the samples do not contain asbestos, **they** should be assumed to be **ACBM until** such time as TEM analysis **is** performed

TABLE 1

INVENTORY OF SUSPECT ACBM

1st Lt. John S. Turner USARC
180 Eigh Street
Fairfield, Connecticut

September 27,1994

Description of Suspect Material	Material Location	Material Classification	Friability	Sample Number(s)	Asbestos Content and Type
MAIN BUILDING					
Black exterior window caulking	Windows	M	Nonfiiable	24-19-01	None detected
Black perimeter roof flashing	Roof	M	Nonfriable	24-20-01	None detected
Black roofing shingle	Roof	M	Nonfiiable	24-21-01	None detected

T = Thermal System Insulation
S = Surfacing Material
M = Miscellaneous Material

TABLE 1

INVENTORY OF SUSPECT ACBM

1st Lt. John S. Turner USARC
180 High Street
Fairfield, Connecticut

September 27,1994

Description of Susoect Material OMS	Material Location	Material Classification	Friability	Sample Number(s)	Asbestos Content and Type
Gray cement board	Above ceiling-mounted heating units	M	Nonfriable	**24-17-01**	None detected
White window putty	Windows	M	Nonfriable	24-18-01	**02%** Actinolite

T = Thermal System Insulation
S = Surfacing Material
M = Miscellaneous Material

TABLE 2

INVENTORY OF ACBM

1st Lt. John S. Turner USARC
180 High Street
Fairfield, Connecticut

September 27, 1994

Description of ACBM	ACBM Location	Material Classification	Approximate Quantity	Condition	Accessibility	Material Exposure Assessment Rating*
Main Building						
Mastic adhesive underlying gray 9" x 9" floor tile	Basement Hallway and Offices	M	*2,000* ft^2	Fair	High	D
Mastic adhesive underlying brown 9" x 9" floor tiles	Kitchen	M	225 ft^2	Good	Low	F
Red 9"x9" floor tiles and underlying mastic adhesive [1]	Basement	M	100 ft^2	Good	High	F
OMS						
White window putty	OMS Windows	M	200 ft^2	Good	Low	E

T = Thermal System Insulation
S = Surfacing Material
M = Miscellaneous Material

Note [1] : These tile and mastic adhesive samples were not analyzed using TEM, the materials are assumed to contain asbestos

* Assessment Index: Materials assigned an alphabetical exposure assessment rating from A to F based on damage and fiber release factors, with A representing a material with the highest priority lor remedial action and F representing a material with the lowest priority for remedial action (See Appendix D for additional details)

4. CONCLUSIONS AND RECOMMENDATIONS

On the basis of CEC's inspection of the Main Building and the Maintenance Building of the 1st Lt. John S. Turner Army Reserve Center in Fairfield, Connecticut, and of CEC's collection of random bulk samples of friable and nonfnable suspect asbestos-containing building materials and their analyses by CEC's laboratory, CEC concludes that:

(1) Nonfriable ACBM included mastic adhesive beneath floor tiles in the basement hallways, in two basement offices, the kitchen in the Main Building, and window putty in the OMS. (Red 9"x9" floor tiles and underlying mastic adhesive in room #107B are assumed to contain asbestos).

(2) Because of the location and condition of the nonfiiable ACBM, these materials are not readily susceptible to disturbance and fiber release

Therefore, CEC recommends that no remedial actions are needed at this site at the present time.

Although CEC finds it unnecessary to recommend any remedial actions at the site now, at the client's request we have prepared cost estimates (Table 3) for the total removal and replacement of ACBM identified during the survey. These estimates are for informational purposes only and are not intended to be compared to actual prices an abatement contractor might estimate for a specific project.

The estimated cost to remove all the ACBM is approximately $7,975. The estimated cost to replace the ACBM with materials that do not contain asbestos is $3,888. The estimated cost for total removal and replacement of ACBM is $1 1,863.

Unit prices have been estimated based on typical 1994 costs for specific types of ACBM. These prices account for the labor, material, engineering controls, and expected transportation and disposal costs that would be incurred to remove and dispose of the ACBM.

TABLE 3. COST ESTIMATES FOR REMOVAL AND REPLACEMENT OF ACBM

1st Lt. John S. Turner USARC
180 High Street
Fairfield, Connecticut

Type of ACBM	Total Quantity	Unit Cost for Removal	Removal Cost	Unit Cost For Replacement	Replacement Cost
Main Building					
Mastic adhesive underlying 9"x9" floor tiles	*2,225* ft^2	$3/ft^2	*$6,675*	$1.5/ft^2	$3,338
9"x9" floor **tiles** and underlying mastic adhesive'"	100 ft^2	$3/ft^2	*$300*	$1.5/ft^2	$150
OMS					
White window caulking on windows	*200* ft^2	*$51* ft^2	$1,000	*$21* ft^2	$400
		TOTAL	**$7,975**	**TOTAL**	***$3,888***
		TOTAL REMOVAL AND REPLACEMENT COST		**$11,863**	

Note (1) : These tile **and** mastic adhesive samples were not analyzed using TEM, the materials are assumed to contain asbestos.

LOCATION: **MAIN** BUILDING
180 HIGH STREET
FAIRFIELD, CT

PROJECT : 94.01163.24
PAGE : A-1

ANALYTICAL RESULTS OF BULK SAMPLES

SAMPLE DESCRIPTION	ANALYTICAL RESULTS	
24-01-01 WHITE **12" X 12"** FLOOR TILE, FRONT FOYER	NO ASBESTOS DETECTED NON-FIBROUS MATERIAL	: : 100%
24-02-01 BLACK MASTIC **ADHESIVE** BENEATH SAMPLE #001	ASIIESTOS-CHRYSOTILE CEILULOSE NON-FIBROUS MATERIAL	: < 01% : 01% : **99%**
24-03-01 BROWN *9" X 9"* **FLOOR** TILE FROM KITCHEN, BELOW OVEN	NO ASBESTOS DETECTED CEILULOSE NON-FIBROUS MATERIAL	: : < 01% : 100%
24-04-01 BLACK **MASTIC ADHESIVE** BENEATH SAMPLE #003	NOASBESTOSDETECTED CEILULOSE OTHER FIBROUS MATERIAL - SYNTHETIC NON-FIBROUS MATERIAL	: : **02%** : < **01%** : **98%**
24-05-01 CERAMIC TILE **GROUT** FROM MEN'S ROOM	NO ASBESTOS DETECTED CEILULOSE NON-FIBROUS MATERIAL	: : < 01% : 100%
24-06-01 BLACK VINYL BASEBOARD FROM FRONT FOYER	NO ASBESTOS DETECTED CEILULOSE OTHER FIBROUS MATERIAL - BOTANICAL NON-FIBROUS MATERIAL	: : < **01%** : < 01% : **100%**
24-07-01 WHITE **GYPSUM** BOARD. WALL OF **MEN'S ROOM**	NO ASBESTOS DETECTED CEILULOSE NON-FIBROUS MATERIAL	: : < 01% : 100%
24-07-02 WHITE **GYPSUM** BOARD, CEILING IN KITCHEN, ABOVE **SINK**	NO ASBESTOS DETECTED CEILULOSE NON-FIBROUS MATERIAL	: : 05% : **95%**
24-07-03 WHITE **GYPSUM** BOARD, CEILING OF BOILER ROOM, LEFT OF WINDOW, REAR WALL	NO ASBESTOS DETECTED FIBROUS **GLASS** **OTHER** FIBROUS MATERIAL - UNSPECIFIED NOIV-FIBROUS MATERIAL	: : **03%** : 01% : **96%**

LOCATION: **MAIN BUILDING**
180 HIGH STREET
FAIRFIELD, CT

PROJECT : 94.01163.24
PAGE : A-2

ANALYTICAL **RESULTS** OF **BULK** SAMPLES

SAMPLE DESCRIPTION	ANALYTICAL **RESULTS**		
24-07-04 WHITE **GYPSUM** BOARD, CEILING OF BOILER ROOM, TOP STAIRS	NO ASBESTOS DETECTED		
	FIBROUS GLASS	:	05%
	CELLULOSE	:	**02%**
	OTHER FIBROUS MATERIAL - UNSPECIFIED	:	01%
	NON-FIBROUS MATERIAL	:	**92%**
24-08-01 GRAY 9" X 9" **FLOOR** TILE **FROM** BASEMENT HALLWAY OUTSIDE **ROOM #102A**	ASBESTOS-CHRYSOTILE	:	01%
	CELLULOSE	:	02%
	OTHER FIBROUS MATERIAL - SYNTHETIC	:	**02%**
	NON-FIBROUS MATERIAL	:	**95%**
24-09-01 BLACK MASTIC **ADHESIVE** BENEATH SAMPLE **#08-01**	ASBESTOS-CHRYSOTILE	:	**02%**
	CELLULOSE	:	**02%**
	OTHER FIBROUS MATERIAL - SYNTHETIC	:	**<** 01%
	NON-FIBROUS **MATERIAL**	:	**96%**
24-10-01 WHITE JOINT COMPOUND, TO **LEFT** OF WINDOW, REAR WALL **OF** BOILER **ROOM**	NO ASBESTOS DETECTED		
	FIBROUS **GLASS**	:	03%
	CELLULOSE	:	01%
	OTHER FIBROUS MATERIAL - SYNTHETIC	:	**< 01%**
	NON-FIBROUS MATERIAL	:	**96%**
24-10-02 WHITE JOINT COMPOUND CEILING OF BOILER **ROOM,** TOP OF STAIRS	NO ASBESTOS DETECTED		
	FIBROUS **GLASS**	:	**02%**
	CELLULOSE	:	**01%**
	NON-FIBROUS MATERIAL	:	**97%**
24-11-01 BLACK ***9"*X** 9" FLOOR TILE, ***TO*** LEFT OF DOOR ENTRANCE	NO ASBESTOS DETECTED		
	FIBROUS **GLASS**	:	**< 01%**
	OTHER FIBROUS MATERIAL - WOLLASTONITE	:	**< 01%**
	NON-FIBROUS MATERIAL	:	**100%**

LOCATION: MAIN BUILDING
180 HIGH STREET
FAIRFIELD, CT

PROJECT : 94.01163.24
PAGE : A-3

ANALYTICAL RESULTS OF BULK SAMPLES

SAMPLE DESCRIPTION	ANALYTICAL RESULTS	
24-12-01 BLACK MASTIC **ADHESIVE** ASSOCIATED WITH SAMPLE #11-01	NO ASBESTOS DETECTED CELLULOSE O W R FIBROUS MATERIAL - HAIR . SYNTHETIC NON-FIBROUS MATERIAL	: : 05% : < 01% : 95%
24-13-01 RED 9" X 9" FLOOR TILE FROM ROOM #107B	NO ASBESTOS DETECTED OTHER FIBROUS MATERIAL - WOLLASTONITE NON-FIBROUS MATERIAL	 : < 01% : 100%
24-14-01 BLACK MASTIC **ADHESIVE** ASSOCIATED WITH SAMPLE #13-01	NO ASBESTOS DETECTED FIBROUS GLASS CELLULOSE NON-FIBROUS MATERIAL	 : < 01% : 02% : 98%
24-15-01 BROWN 9" X 9" **FLOOR** TILE FROM ROOM #107B	ASBESTOS-CHRYSOTILE CELLULOSE NON-FIBROUS MATERIAL	: < 01% : < 01% : 100%
24-16-01 BLACK MASTIC **ADHESIVE** ASSOCIATED WITH SAMPLE #15-01	NO ASBESTOS DETECTED CELLULOSE OWRFIBROUSMATERIAL . SYNTHETIC NON-FIBROUS MATERIAL	 : 05% : < 01% : 95%

LOCATION: **OMS**
180 HIGH STREET
FAIRFIELD, CT

PROJECT : 94.01163.24
PAGE : A-4

ANALYTICAL **RESULTS** OF BULK SAMPLES

SAMPLE DESCRIPTION	ANALYTICAL RESULTS		
24-17-01 GRAY CEMENT BOARD **ABOVE** HEATING UNIT IN BAY **#3** IN **OMS**	NO ASBESTOS DETECTED CELLULOSE OTHER FIBROUS MATERIAL . WOLLASTONITE NON-FIBROUS MATERIAL	: : :	05% **03%** **92%**
24-18-01 WHITE WINDOW PUTTY FROM BAY **#2** IN **OMS**	ASBESTOS-ACTINOLITE CFUULOSE OTHER FIBROUS MATERIAL . INSECT **LEG** . UNSPECIFIED NON-FIBROUS MATERIAL	: : : :	**02%** **02%** < 01% **96%**
24-19-01 BLACK EXTERIOR WINDOW CAULKING	NO ASBESTOS DETECTED CELLULOSE NON-FIBROUS MATERIAL	: :	**03%** **97%**
24-20-01 BLACK PERIMETER ROOF FLASHING	NO ASBESTOS DETECTED NON-FIBROUS MATERIAL	:	**100%**
24-21-01 BLACK ROOFING ASPHALT ROOF **SHINGLE**	NO ASBESTOS DETECTED FIBROUS **GLASS** NON-FIBROUS MATERIAL	: :	**03%** **97%**

ALL SAMPLES ARE STORED AT THE CEC LABORATORY FOR A PERIOD OF THREE **MONTHS.** FURTHER **ANALYSIS** OR **RETURN** OF **SAMPLES** MUST BE REQUESTED WITHIN **THIS** THREE MONTH PERIOD TO GUARANTEE THEIR **AVAILABILITY.**

LABORATORY CERTIFICATION # MA #AA000006

LABORATORY SUPERVISOR

Briggs Associates, Inc.

ASBESTOS ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY (TEM), SELECTED AREA ELECTRON DIFFRACTION (SAED), AND ENERGY DISPERSIVE X-RAY MICROANALYSIS (EDXA)

SAMPLE DATA

CLIENT PROJECT: CEC Job 94.01163

Sample Location: #24 Fairfield, CT

CLIENT: Covino Environmental Consultants, Inc.

DATE RECEIVED: 1/12/95

ANALYSIS: Floor Tile Asbestos Analysis by Modified Chatfield Method (Qualitative)

ANALYTICAL RESULTS

Lab ID No.	Client ID No.	Approximate Asbestos Content	Asbestos Type
1.17813	24-01-01	NAD	
2.17814	24-02-01	NAD	
3.17815	24-03-01	NAD	
4.17816	24-04-01	MA	CHR
5.17817	24-11-01	NAD	
6.17818	24-12-01	NAD	
7.17819	24-15-01	NAD	
8.17820	24-16-01	NAD	

Notes: CHR=Chrysotile, AMP=Amphibole
NAD=No Asbestos Detected
SA=Slight Amount of Asbestos, MA=Moderate Amount of Asbestos, HA=High Amount of Asbestos
Analytical Method: The floor tile samples and their underlying mastic are analyzed in accordance with recommended protocol (modified Chatfield). The TEM analysis was performed using JEOL 100CX II with KEVEX energy dispersive X-ray spectrometer at a magnification of 19,000.

2001 Marietta Road, Atlanta, Georgia 30318
Tel (404) 355-4429 • Fax (404) 355-2339
Markham, ONT • Rockland, MA • Newton Upper Falls, MA • Pawtucket, RI • Columbia, MD • Nashville, TN • Orlando, FL

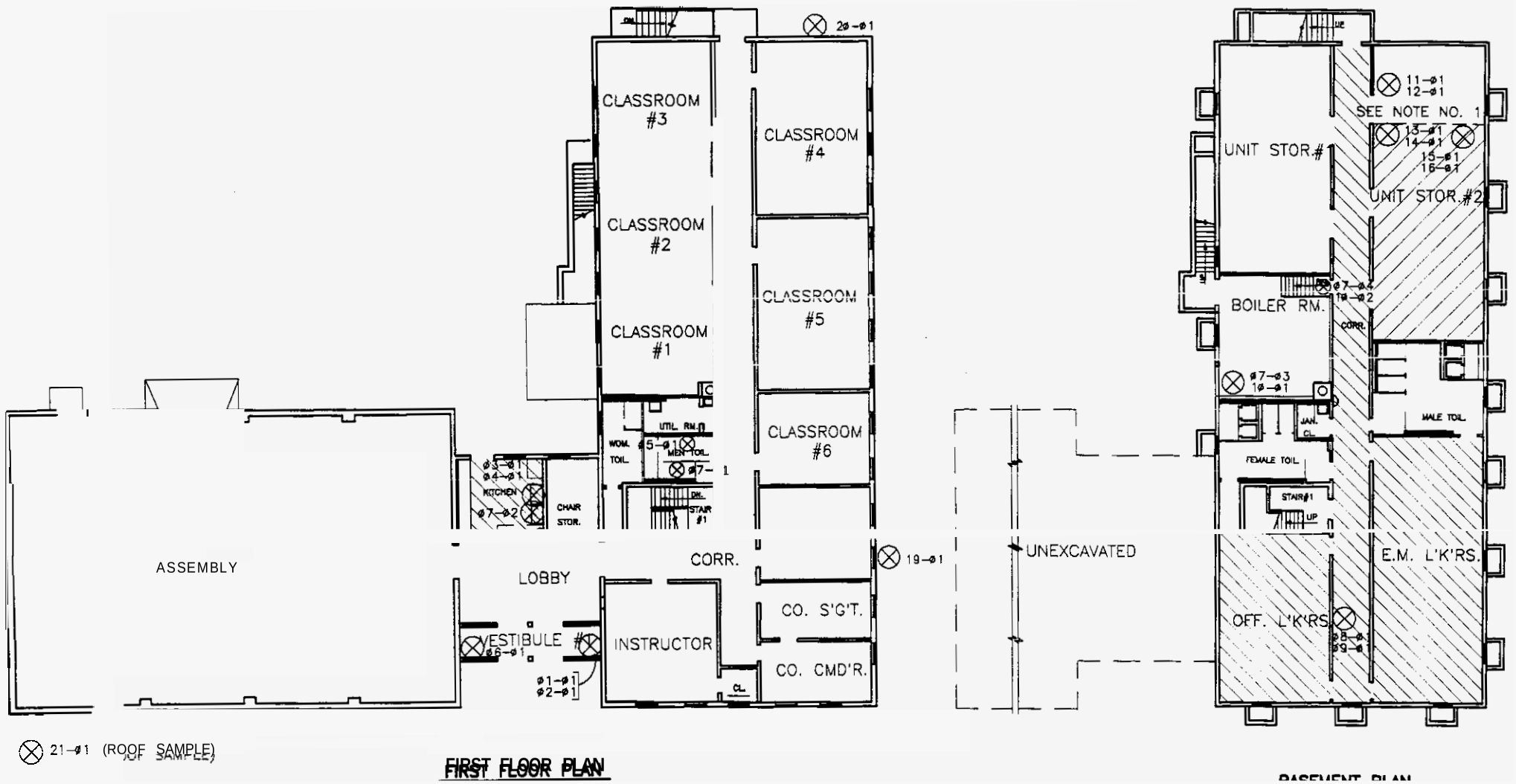
A P P E N D I X B

DRAWINGS DEPICTING SAMPLE AND ACBM LOCATIONS

5 4

D

MIAN BUILDING



FIRST FLOOR PLAN

FIRST FLOOR PLAN

BASEMENT PLAN

LEGEND

⊗	BULK SAMPLE LOCATION
NA	NOT ACCESSIBLE
T	TRANSITE
AA-BB	SAMPLE DESCRIPTION: HOMOGENEOUS MATERIAL - SPECIFIC SAMPLE NUMBER
ACEM	ASBESTOS-CONTAINING BUILDING MATERIAL
(X)	NUMBER OF ACBM FITTINGS ON NON-ACBM INSULATED
X	LINEAR FEET OF ACBM PIPE INSULATION
⊗ XX	NUMBER OF MUDDED PIPE FITTINGS. INCLUDES FIBERGLASS AND PAPER INSULATED PIPE RUNS,
	ACEM FLOOR TILE
	ACEM FLOOR TILE & MASTIC
	ACBM MASTIC

DRAWING NOTES:

1.- TEM ANALYSIS WAS NOT CONDUCTED ON THIS TILE AND MASTIC SAMPLE (13-ø1, 14-01). WHILE IT IS LIKELY THAT THE SAMPL DO NOT CONTAIN ASBESTOS, THEY SHOULD BE ASSUMED TO BE ACEM UNTIL SUCH TIME AS TEM ANALYSES ARE PERFORMED.

Revisions			
Symbol	Descriptions	Date	Approved

COVINO ENVIROMENTAL CONSULTANTS, INC.
3øø WILDWOOD AVENUE
WOBURN, MASSACHUSETTS ø18ø1

ARMY RESERVE CENTER
FAIRFIELD, CT

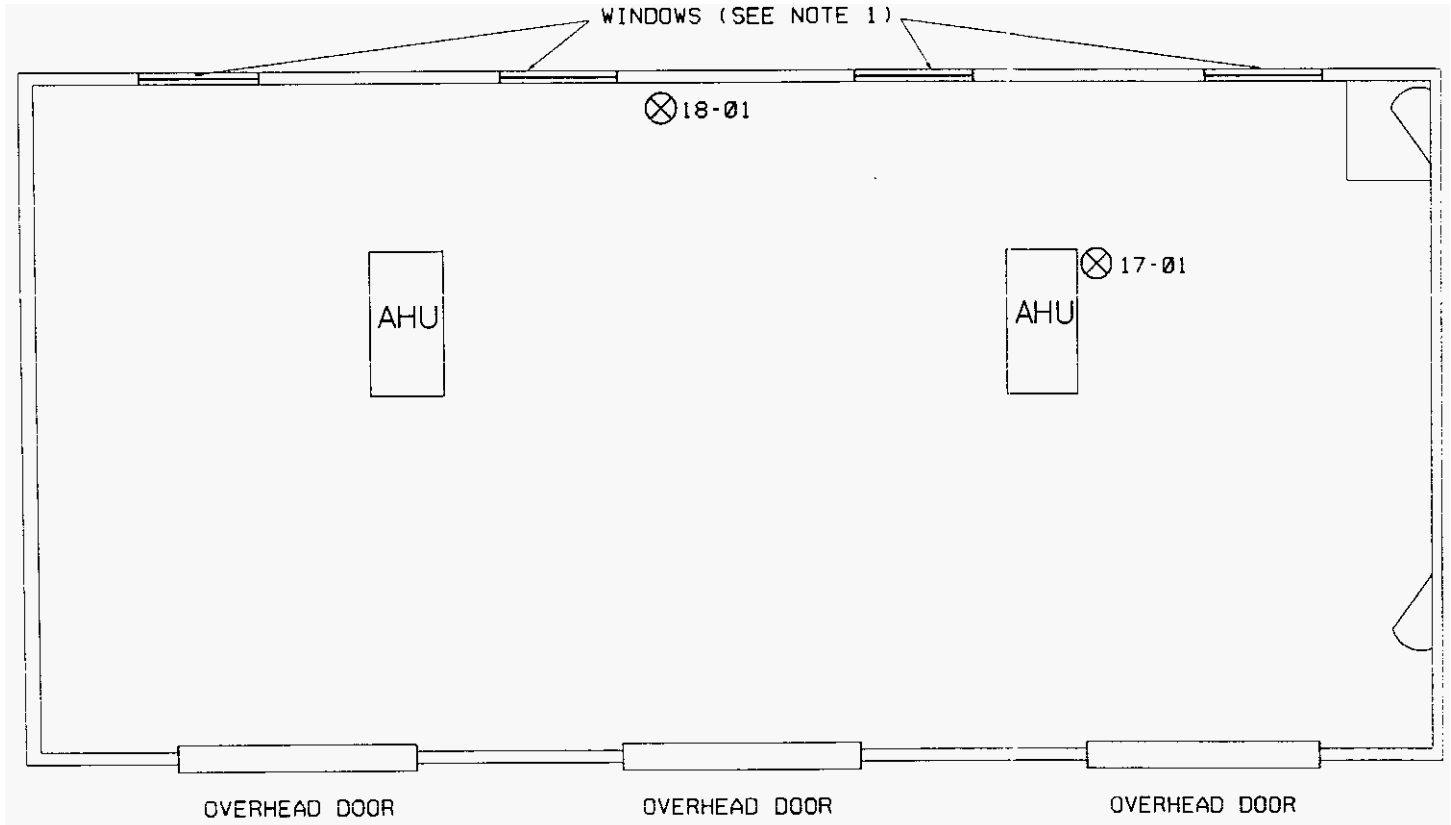
Designed by:
Drawn by:
Checked by:
Reviewed by:
Approved by:

ASBESTOS SURVEY PLAN
LT. JOHN S. TURNER, USARC
18ø HIGH STREET
FAIRFIELD, CONNECTICUT

Scale: NONE
Date: OCT. 1995
Drawing Code:
Sheet ___ of ___

5 4 3 2

OMS BUILDING



LEGEND

- ⊗ BULK SAMPLE LOCATION
- NA NOT ACCESSIBLE
- T TRANSITE
- AA-BB SAMPLE DESCRIPTION: HOMOGENEOUS MATERIAL - SPECIFIC SAMPLE NUMBER
- ACBM ASBESTOS-CONTAINING BUILDING MATERIAL
- (X) NUMBER OF ACBM FITTINGS ON NON-ACBM INSULATED PIPE
- △X LINEAR FEET OF ACBM PIPE INSULATION
- ⊙ VERTICAL ACBM INSULATED PIPE RISER
- ACBM FLOOR TILE
- ACBM FLOOR TILE & MASTIC
- ACBM MASTIC

DRAWING NOTES

1. WHITE WINDOW PUTTY 2% ACTINOLITE ASBESTOS 2000FT²

REVISIONS			
SYMBOL	DESCRIPTIONS	DATE	APPROVED

COVINO ENVIRONMENTAL CONSULTANTS, INC. 300 WILDWOOD AVENUE WOBURN, MASSACHUSETTS 01801	ARMY RESERVE CENTER FAIRFIELD, CT
DESIGNED BY:	ASBESTOS SURVEY PLAN LT. JOHN S. TURNER, USARC 180 HIGH STREET FAIRFIELD, CONNECTICUT
DRAWN BY:	
CHECKED BY:	
REVIEWED BY:	SCALE: NONE
APPROVED BY:	DATE: OCT. 1995
	DRAWING CODE:
	SHEET REFERENCE NUMBER:

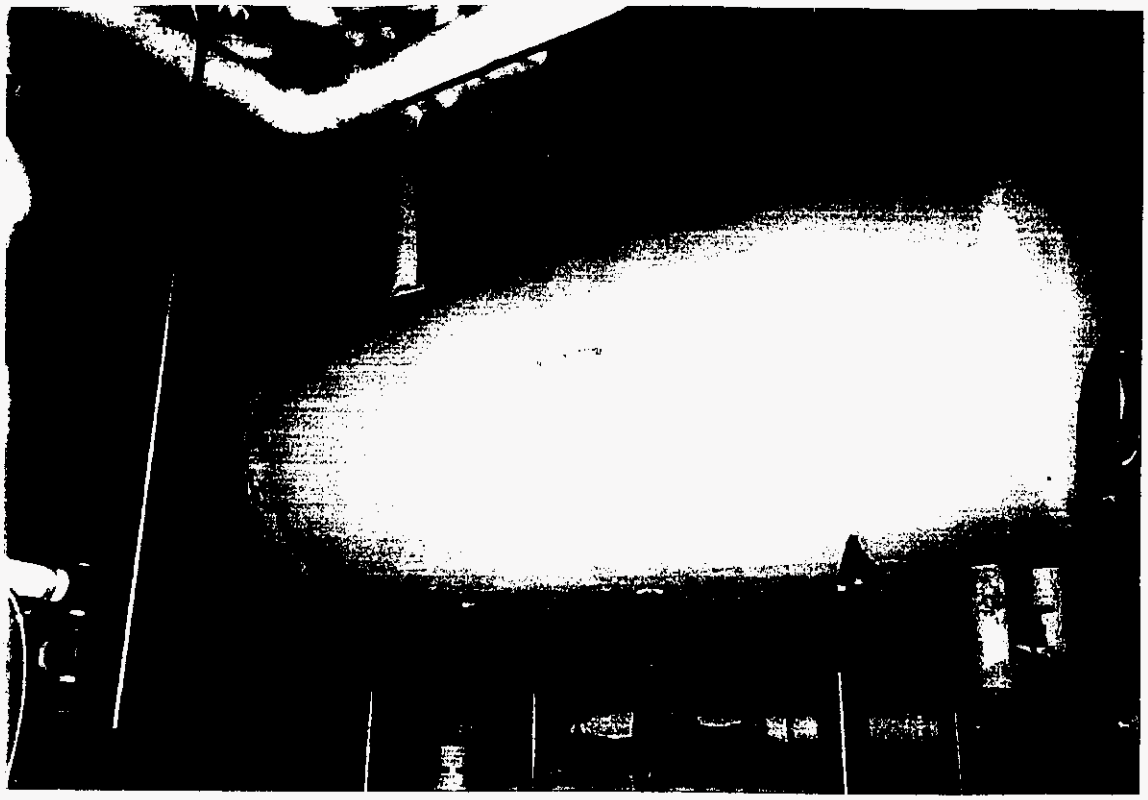


FIGURE 24-01 Asbestos free hot water tank insulation

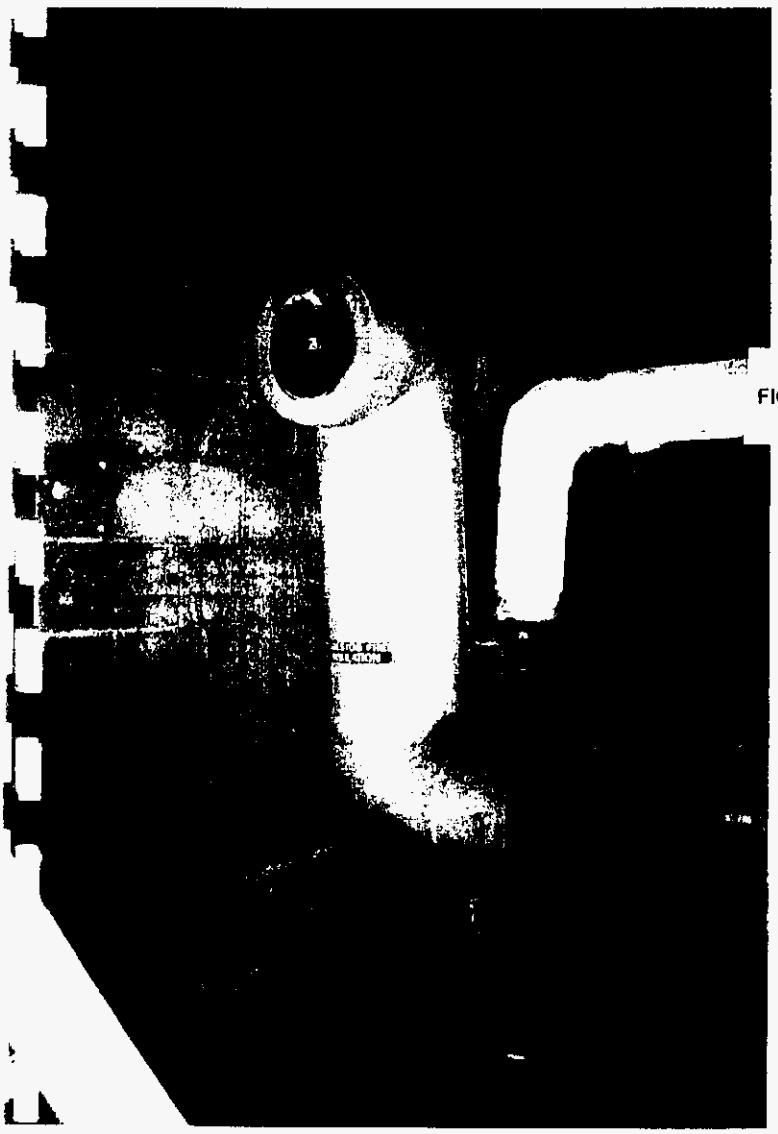


FIGURE 24-02 Asbestos free boiler breeching insulation

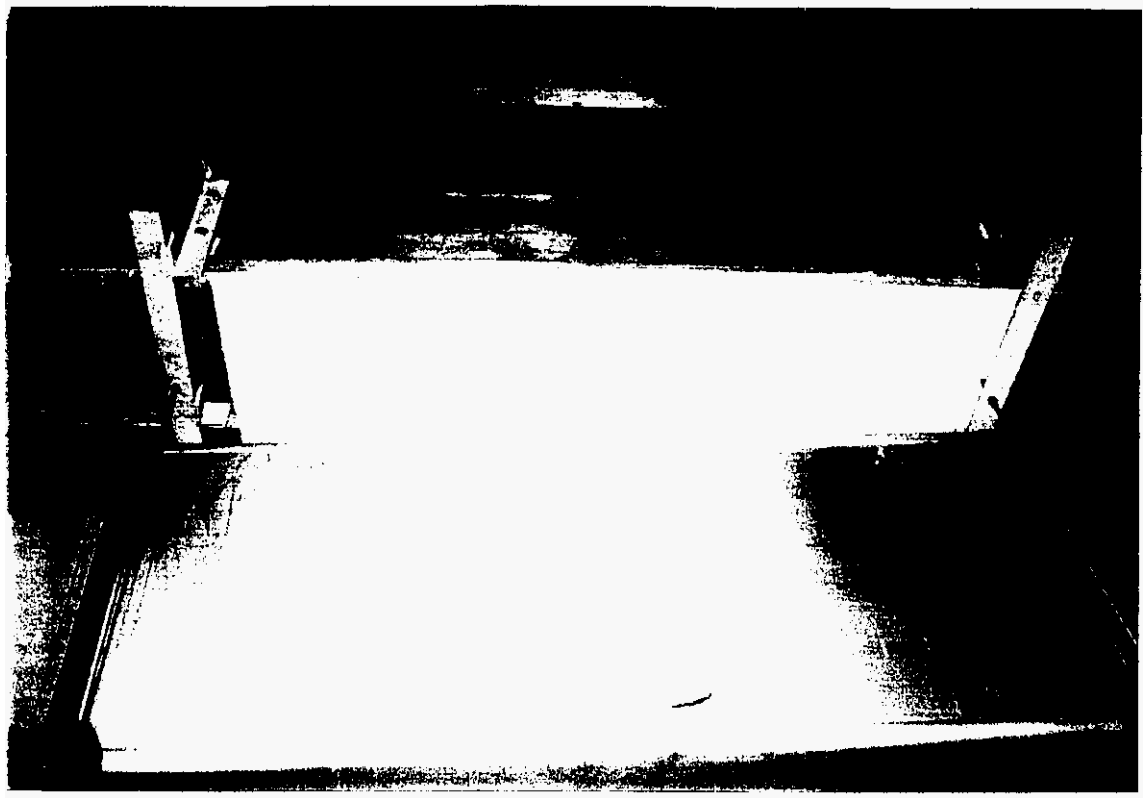


FIGURE 24-03 Transite board above heater, motor vehicle maintenance shop.

INSTRUCTIONS FOR COMPLETING USAEL ACBM ASSESSMENT CHECKLIST

1. Complete a separate form for each suspect asbestos-containing building material (SACBM) in a building. If a building has no SACBM, insert "No SACBM Found" in the space labeled "SACBM I.D. No."

2. Complete all remaining items at the top of the form. If a SACBM exists essentially throughout a building, insert "Throughout Building" under "Room(s) or Area(s) Where Found." Otherwise, clearly list the rooms or areas where it was found (e.g., Entire Basement, Rooms 101-120, Attic Only, etc.)

3. To complete Parts I and II, circle the ratings which are appropriate for the particular SACBM. Use the largest circled ratings to calculate the Damage(D) Total and Exposure(E) Total when multiple ratings are circled. These totals represent the sum of the factor ratings for Parts I and II.

4. Note any other relevant observations in the space labeled at the bottom of the form, then determine the "Assessment Index" from the chart shown below.

5. The following provides further descriptions of the different possible scores for certain items. Refer to USAEC figures 1a and 1b for further information about there items.

PART I: Damage Assessment Factors

A. **Physical Damage:** Use "0" for non-ACBM, nonfriable ACBM, or ACBM with <1%. Use "1" for less than 10% DAMAGE, or controlled space accessed by maintenance personnel only, or uncontrolled/unoccupied space. "3" = >50-75% damage. "5" = >75% damage.

B. Water Damage: Minor means <10%; major means >10%.

C. Potential Damage due to Routine Maintenance Activities: For sprayed or troweled-on materials, this means whether the friable ACBM could be damaged by routine maintenance activities occurring at the indicated distances from the ACBM. Assign "3" also when access is required above a lay-in ceiling where surfacing ACM is located.

D. Type of ACM: Choose from list over.

E. Percent asbestos.

F. Damage(D) Total: Must be 0 if asbestos content is <1% or the material is nonfriable ACBM in good/fair condition; maximum score is 17.

PART II: Exposure Assessment Factors

A. Material Friability: Defined by USEPA as crumbled, pulverized, or reduced to powder when dry under hand pressure.

B. Occupant Accessibility to ACBM Fibers: Low: Isolated by barriers seldom breached: Moderate: barrier breached by routine maintenance activity; High: routinely accessible to other occupants.

C. Activity/Use: Low = Infrequent maintenance activities only: Moderate = Frequent maintenance activities only: High = Normal occupant activities.

D. Air Stream/Plenum: None means no perceptible air flow in the room or area: use 1 if an air flow is perceived but ACBM is not likely affected: use 2 if ACBM is exposed to perceptible or occasional air streams; use 3 if ACBM present in supply ducts/plenums or recirculated air, subjected to routine turbulence, or abrupt air movement.

E. Area of visible surface or damaged ACBM.

F. Population: Use the following formula to calculate For occupied building rooms/areas:

$$\text{Average Occupancy} = \text{Outside Visitors} \times \frac{\text{Ave. Hours Spent}}{8\ \text{hrs.}} + \text{No. Full-tim 8-Hr. Building Occupants}$$

Unoccupied facilities capable of being used are given a worst-case scenario value of "5," plus additional value per the table over. Other unoccupied facilities (bunkers, sheds) will receive "Zero" papulation value.

G. Exposure(E) Total: Sum maximum scores for about Part II items; maximum score is 26.

H. Assessment Index: Enter the letter code determined from the following matrix:

Damage(D) Score	Exposure(E) Score 26-24	23-15	14-8	7-4	Zero
17-13	A	A	B	C	F
12-9	A	B	C	D	F
8-5	B	C	D	E	F
4-1	C	D	E	F	F
Zero	F	F	F	F	F

I. Other Relevant Observations.

ASBESTOS PRIORITIZATION FORM

SITE CODE: 24
AREA/ROOM: Basement
EVALUATORS: Mooney/Blanchard
MATERIAL QUANTITY:
BUILDING NAME: Fairfield, CT
SAMPLE NO(S).: 24-09-01
DATE: 9/27/94
THICKNESS/SIZE & COLOR: 1/16" - black
MATERIAL DESCRIPTION: black mastic adhesive beneath gray 9x9"

RELEASE ASSESSMENT

MATERIAL TYPE	COMMENTS
A 0 Friable: H=3, M=2, L=1 Non-friable=0	
B 0 Occupants Accessibility to ACBM Fibers Low = 0, Moderate = 1, High = 4	
C 1 Activity - None - 0, Low = 1, Moderate = 2, High = 3	
D 1 Air Movement/Plenum - None - 0, Low = 1, Moderate = 2, High = 3	
E 3 Amount of Visible Surface Area (I?): <10=0: 10 to <100=1: 100 to ≤1,000=2: >1,000=3	
F 2 Population: 1 to 9 or hall = 1: 10 to 200 = 2: 201 to 500 = 3: 501 to 1,000 = 4: > 1,000 = 5	
G 1 No ACBM or < 1%ACBM = 0, Non-friable ACBM in good to fair condidon = 1, Non-friable ACBM in *poor* condidon = 2, Friable ACBM in good condidon = 3, Friable ACBM with damage = 5	
H 8 Release Factor Total (R) hlax = 26: Min = 1 TOTAL R FACTOR =	

DAMAGE ASSESSMENT

A 1 Physical: None = 0, Minimal = 1, Low = 2, Moderate = 3, High = 5	3/4 mastic exposed at side exit, Basement
B 1 Water: None = 0, Minor = 1, Major = 2	
C 2 Potential for Contact by Maintenance Activity Low = 0, Moderate = 2, High = 3	
D 1 Type of Material: Surfacing Material = 4, HVAC = 3, Pipe or Boiler = 2, Ceilings/Walls = 1, Other = 0 to 1	
E 1 Asbestos Content (%): < 1% = 0, > 1 to < 30 =1, > 30 to < 50 = 2, > 50 = 3	
F 6 Damage Factor Total (D) Max = 17, Min = 0 TOTAL D FACTOR =	G ASSESSMENT INDEX (Priority Ranking Value) = 1

ASBESTOS PRIORITIZATION FORM

SITE CODE: 24
AREA/ROOM: OMS
EVALUATORS: TDowney / BLombard
MATERIAL QUANTITY: _____
MATERIAL DESCRIPTION: window caulking

BUILDING NAME: Fairfield, CT
SAMPLE NO(S).: 24-■18-01
DATE: 9/27/94
THICKNESS/SIZE & COLOR: white

RELEASE ASSESSMENT

MATERIAL TYPE	COMMENTS
A 0 Friable: H=3, M=2, L=1 Non-friable=0	
B 0 Occupants Accessibility to ACBM Fibers Low = 0, Moderate = 1, High = 4	
C 1 Activity - None - 0, Low = 1, Moderate = 2, High = 3	
D 2 Air Movement/Plenum - None - 0, Low = 1, Moderate = 2, High = 3	
E 2 Amount of Visible Surface Area (ft^2): <10=0: 10 to <100=1: 100 to ≤1,000=2: >1,000=3	
F 2 Population: 1 to 9 or hall = 1: 10 to 200 = 2: 201 to 500 = 3: 501 to 1,000 = 4: > 1,000 = 5	
G 1 No ACBM or < 1% ACBM = 0, Non-friable ACBM in good to fair condition = 1, Non-friable ACBM in poor condition = 2, Friable ACBM in good condition = 3, Friable ACBM with damage = 5	
H 6 Release Factor Total (R) Max = 26: Min = 1 TOTAL R FACTOR = ____	

DAMAGE ASSESSMENT

A ■1 Physical: None = 0, Minimal = 1, Low = 2, Moderate = 3, High = 5	
B 0 Water: None = 0, Minor = 1, Major = 2	
C 0 Potential for Contact by Maintenance Activity Low = 0, Moderate = 2, High = 3	
D ■0 Type of Material: Surfacing Material = 4, HVAC = 3, Pipe or Boiler = 2, Ceilings/Walls = 1, Other = 0 to 1	
E 1 Asbestos Content (%): < 1% = 0, > 1 to < 30 = 1, > 30 to < 50 = 2, > 50 = 3	
F 2 Damage Factor Total (D) Max = 17, Min = 0 TOTAL D FACTOR = ____	G ASSESSMENT INDEX (Priority Ranking Value) = E

ASBESTOS PRIORITIZATION FORM

SITE CODE: 24
AREA/ROOM: Kitchen
EVALUATORS: Donny/Blomberg
MATERIAL QUANTITY: 225ft²
MATERIAL DESCRIPTION: mastic adhesive beneath brown tile 9x9"

BUILDING NAME: Fairfield, CT
SAMPLE NO.(S).: 2424-01
DATE: 9/27/94
THICKNESS/SIZE & COLOR: 1/16" - black

RELEASE ASSESSMENT

A 0 Friable: H=3, M=2, L=1 Non-friable=0	
B 0 Occupants Accessibility to ACBM Fibers Low = 0, Moderate = 1, High = 4	
C 1 Activity - None - 0, Law = 1, Moderate = 2, High = 3	
D 1 Air Movement/Plenum - None - 0, Low = I, Moderate = 2, High = 3	
E 2 Amount of Visible Surface Area (ft^2): <10=0: 10 to <100=1: 100 to ≤1,000=2: >1,000=3	
F 2 Population: 1 to 9 or hall = 1: 10 to 200 = 2: 201 to 500 = 3: 501 to 1,000 4: > 1,000 = 5	
G 1 No ACBM or < 1% ACBM = 0, Non-friable ACBM in good to fair condidon = 1, Non-friable ACBM in poor condidon = 2, Friable ACBM in good condidon = 3, Friable ACBM with damage = 5	
H 7 Release Factor Total (R) hlax = 26: Min = 1 TOTAL R FACTOR = 7	

DAMAGE ASSESSMENT

A 0 Physical: None = 0, Minimal = 1, Low = 2, Moderate = 3, High = 5	
B 0 Water: None = 0, Minor = 1, Major = 2	
C 0 Potential for Contact by Maintenance Activity Low = 0, Moderate = 2, High = 3	
D 0 Type of Material: Surfacing Material = 4, HVAC = 3, Pipe or Boiler = 2, Ceilings/Walls = 1, Other = 0 to 1	
E 1 Asbestos Content (%): < 1% = 0, > 1 to < 30 =1, > 30 to < 50 = 2, > 50 = 3	
F 1 Damage Factor Total (D) Max = 17, Min = 0 TOTAL D FACTOR = 1	G ASSESSMENT INDEX (Priority Ranking Value) = F

APPENDIX E

PERSONNEL AND LABORATORY CERTIFICATES

Control No 390

THE COMMONWEALTH OF MASSACHUSETTS

Department of Labor anti Industries

Bureau of Technical Services
100 Cambridge Street, Room 1101
Boston, Massachusetts 02202

CERTIFICATION FOR ANALYTICAL SERVICES

In accordance with 453 CMR 6.04

Certificate No. A A 0013006

is issued by Departnent of Labor and Industries to:

COVINO ENVIRONMENTAL CONSULTANTS, INC.
300 WILDWOOD AVENUE
WOBURN MA 01801

for **the purpose of providing analytical services as specified in Form CAAS.**

This license is valid for a period of one **(1) year**

and expires on 05/17/95 .

Christine Morris

Commissioner

United States Department of Commerce
National institute of Standards and Technology

NVLAP®

ISO/IEC GUIDE 25:1990
ISO/IEC GUIDE 58:1993
ISO 9002:1994

Certificate of Accreditation

DEPARTMENT OF COMMERCE ★ UNITED STATES OF AMERICA ★

COVINO ENVIRONMENTAL CONSULTANTS, INC.
WOBURN, MA

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Pari 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) ai suppliers of calibration or test results. Accreditation is awarded for specific services, listed on the Scope of Accreditation for:

BULK ASBESTOS FIBER *ANALYSIS*

July 1, 1995
Effective until

For the National Institute of Standards and Technology

NVLAP LAB CODE: 1781

IEE

INSTITUTE FOR ENVIRONMENTAL EDUCATION, INC.

52B Cummings Park, Suite 315, Woburn, MA 01801
(617) 935-7370

Timothy M Downey

has successfully completed the 8 hour course

Asbestos Inspector/Management Planner Annual Refresher

February 24, 1994	February 24, 1994
Course Date	Examination Date
94-184-136-113	February 24, 1995
Certificate Number	Expiration Date
027-58-6940	
Social Security Number	President / Director of Training

IEE

INSTITUTE FOR ENVIRONMENTAL EDUCATION, INC.

52B Cummings Park, Suite 315, Woburn, MA 01801
(617)935-7370

Benjamin Lombard

has successfully completed the 24 hour course

Asbestos Inspection Training

November 8-10, 1993
Course Date (s)

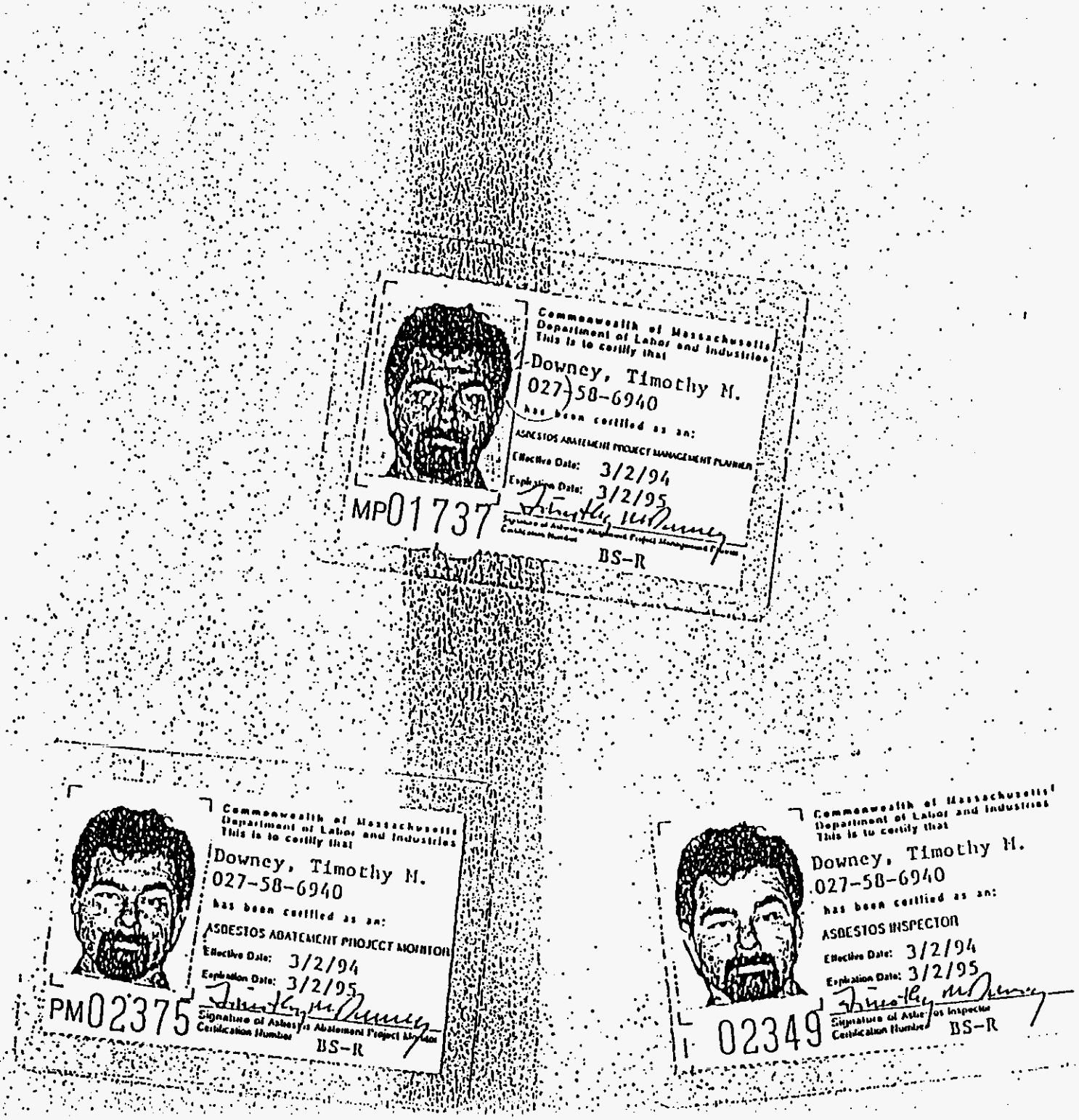
93-077-102-110
Certificate Number

019-54-5422
Social Security Number

November 10, 1993
Examination Date

November 10, 1994
Expiration Date

President / Director of Training



Commonwealth of Massachusetts
Department of Labor and Industries
This is to certify that
Downey, Timothy M.
027-58-6940
has been certified as an:
ASBESTOS ABATEMENT PROJECT MANAGEMENT PLANNER
Effective Date: 3/2/94
Expiration Date: 3/2/95
MP01737
BS-R

Commonwealth of Massachusetts
Department of Labor and Industries
This is to certify that
Downey, Timothy M.
027-58-6940
has been certified as an:
ASBESTOS ABATEMENT PROJECT MONITOR
Effective Date: 3/2/94
Expiration Date: 3/2/95
PM02375
BS-R

Commonwealth of Massachusetts
Department of Labor and Industries
This is to certify that
Downey, Timothy M.
027-58-6940
has been certified as an:
ASBESTOS INSPECTOR
Effective Date: 3/2/94
Expiration Date: 3/2/95
02349
BS-R

Commonwealth of Massachusetts
Department of Labor and Industries
This is to certify that

Lombard, Benjamin H.
019-54-5422

has been certified as an:

ASBESTOS INSPECTOR

Effective Date: 3/2/94

Expiration Date: 3/2/95

02350

Signature of Asbestos Inspector

Certification Number BS-N

OPERATIONS AND MAINTENANCE PROGRAM

FOR

ASBESTOS-CONTAINING MATERIALS

AT

FIRST LIEUTENANT JOAN S. TURNER ARMY RESERVE CENTER

TABLE OF CONTENTS

PAGE

1. INTRODUCTION

The purpose of the Operations and Maintenance (O& M) Program is to minimize the exposure of all building occupants and visitors to airborne asbestos fibers. To accomplish this goal, the O & M Program contains information for cleaning already released asbestos fibers from surfaces, preventing future release by minimizing disturbance of the damage to asbestos-containing building materials (ACBM), and monitoring ACBM conditions throughout the building. Important O & M Program elements include alerting building occupants about the locations of ACBM, training maintenance staff in special procedures for cleaning and handling ACBM, establishing a process that assures that ACBM are not disturbed during facility repairs and renovations, and periodically reinspecting areas containing ACBM. The O & M Program also establishes a recordkeeping system that documents employee training, O & M activities, abatement of ACBM, and the results of periodic reinspections. All records generated as a result of implementing this O & M Program, as well as this document, shall be kept by a designated Asbestos Program Manger.

This O & M Plan, to a large extent is modeled upon the requirements of 40 CFR Part **763,** the Asbestos Hazard Emergency Response Act (AHERA). Although the requirements for implementing and O & M Plan is only required for schools under the AHERA regulation, the EPA recommends in their Green Book inclusion of the O & M requirements in any building that has ACBM. *Also,* **OSHA's** recently reissued asbestos standard **(29** CFR **1926.1101)** has several **O** & M related provisions, including housekeeping and labeling requirements.

LIMITATIONS

Due to several limitations further survey **work** will be required if future renovation or maintenance activities occur which result in demolition of any part of the existing building structure. These limitations include:

A. Since no core samples of roofing material were collected, only exposed surfaces of the roof were inspected;

B. Potentially hidden areas, such as wall cavities, the space between fixed ceilings and the ceiling deck, internal equipment and parts, etc. may contain ACBM that was not accessible during the survey; and,

C The inner cavity of fire doors, which sometimes contains ACBM insulation, were not inspected.

2. NOTIFICATION

The Asbestos Program Manager shall establish a procedure for labeling ACBM identified in the building survey. Accessible materials in service areas identified as ACBM shall be marked with the following label:

DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE HAZARD

Labels shall be prominently displayed in readily visible locations in the service areas and shall remain posted until the labeled ACBM are removed.

Additionally, maintenance staff who may work closely with or otherwise encounter ACBM throughout the facility shall be notified of the locations of all ACBM. These employees shall be made aware of the results of the building survey so that they may be familiar with the types and locations of identified ACBM. These employees shall also be instructed to immediately report to the Asbestos Program Manager any evidence of disturbance or damage of ACBM, or any dust or debris that apparently originates from ACBM. All employees who may encounter ACBM as **part** of their work must have access to a list of "Emergency Contact Phone Numbers" (Fig. **2-1).**

Figure 2 - 1

EMERGENCY CONTACT PBONE NUMBERS

Asbestos Program Manager _____

Office Phone # _____

Home Phone # _____

Beeper # _____

Asbestos Abatement Contractor _____

Phone # _____ Fax # _____

Contacts	Home Phone #	Beeper #
_____	_____	_____
_____	_____	_____

Industrial Bygiene Consultant _____

Phone # _____ Fax # _____

Contacts	Home Phone #	Beeper #
_____	_____	_____
_____	_____	_____

Building Security _____

Police _____

Fire _____

Medical Emergency _____

3. EMPLOYEE TRAINING

A. Training of Workers in the Trades (16 hours)

All staff members who work in the skilled trades (carpenters, electricians, plumbers, etc.) and who conduct activities that will result in the disturbance of ACBM shall receive training. Activities that have a high likelihood of disturbing ACBM include routine cleaning in areas where friable ACBM are located; small-scale projects of short duration (i.e., repair or removal of less than three **(3)** linear or square feet of ACBM); and plumbing, heating and air conditioning, electrical, and other maintenance activities in locations adjacent to ACBM. Training shall be provided before workers are assigned to activities that may disturb ACBM. The training course shall be a minimum of sixteen (16) hours in duration. The content of the training course shall include, but not be limited to, the following elements:

1. Information regarding types of ACBM and its various uses and forms
2. Information on the health effects associated with asbestos exposure.
3. Descriptions of the proper methods of handling ACBM and activities that could result in exposure of the employee to asbestos.
4. Information on the use of High Efficiency Particulate Air **(HEPA)** filter-equipped dual-cartridge respirators and other personal protection during maintenance activities.
5. Hands-on training in the use of respiratory protection, other personal protective measures, good work practices, and engineering controls.
6. Information on the asbestos program requirements for medical surveillance.
7. Recognition of damage, deterioration, and delamination of asbestos materials.
8. Relevant federal, state, and local requirements.

B. Awareness Training for Custodial Workers *(2* hours)

All employees who perform custodial or maintenance tasks that may involve the accidental disturbance of ACBM, and all persons who perform work in the immediate vicinity of ACBM, shall receive awareness training. This awareness training course shall be a minimum of two **(2)** hours in duration. The content of the awareness training course shall include, but not be limited to, the following elements

1. Background information on asbestos, including its uses and forms.
2. Health effects of exposure to asbestos.
3. Worker protection programs, including the use of respirators and other personal protective equipment.
4. How to recognize ACBM and how to avoid disturbing it.
5. Recognition of ACBM damage and deterioration.
6. Proper response to fiber-release episodes.

3. EMPLOYEE TRAINING; (cont)

C Training Concerning Prohibited Activities

All facility employees shall be made familiar with the locations of all ACBM identified at the facility. Certain routine maintenance activities shall be prohibited when ACBM are involved Specifically, they shall also be instructed that:

1. No holes shall be drilled in ACBM.
2. No plants or pictures shall be hung on structures covered with ACBM.
3. No ACBM floor tile shall be sanded or buffed using high-speed (≥ 300 **rpm)** equipment in accordance with 29 CFR 1926.1101 (I,) (3)(ii).
4. While moving furniture or other objects, employees shall not damage ACBM.
5. No curtains, drapes, or other dividers shall be installed in such a way that they damage ACBM.
6. Floors, ceilings, moldings or other surfaces in asbestos-contaminated environments shall not be dusted with a dry brush or swept with a dry broom.
7. No ordinary vacuuming equipment shall be used to clean up asbestos-containing debris.
8. Ceiling tiles below ACBM shall not be removed unless the employee wears the proper respirator protection, clears the area of other people, and observes proper disposal procedures for removing asbestos waste.
9. No ventilation system filters shall be removed unless the filters are wetted.
10 No ventilation system filters shall be shaken out.

D. Refresher Training

A refresher training course **shall** be required every two years for all employees who are involved in Operations and Maintenance activities and who have completed the 16-hour training. The refresher training course **shall** be a minimum of one day (8 hours) in duration and shall include:

1. Review and discussion of changes in and interpretation of applicable state and federal laws, regulations, policies, and guidelines.
2. A discussion of developments or changes in state-of-the-art procedures and equipment.
3. Review of key areas of initial training specific to Operations and Maintenance workers.

3. EMPLOYEE 'TRAINING (cont)

E. Verifying Competence of Outside Contractors

The Asbestos Program Manager shall be required to verify that all outside contractors performing work in the facility that may involve disturbance or damage of ACBM have received the training appropriate to the work they are to perform (as outlined in Parts 3(A), (B), (C), and (D) above). The Asbestos Program Manager shall also require all outside contractors to sign a certificate of acknowledgment (fig. **3-1)** that they have been informed about the location of all ACBM in the facility. All outside contractors must have access to the list of "Emergency Contact Phone Numbers" shown in Figure 2-1

Figure 3 - I

CONTRACTOR'S ASBESTOS NOTIFICATION AND ACKNOWLEDGMENT FORM

for _____(Project)

On behalf of _____, the undersigned hereby acknowledges the presence and location of asbestos-containing material (ACM) within the buildings located at the First Lieutenant John S. Turner USARC in Fairfield, Connecticut as further described herein. The undersigned agrees to avoid any contact with, or disturbance, of ACBM and *to* inform, and require, the same of all employees of the above-named company accordingly before they start any work at the building.

Based on sample testing conducted by the Army Corps of Engineers, ACBM have been found in the building as described below:

A. Main Building

1. Mastic underlying gray 9"x9" floor tiles in Basement hallway and offices.
2. Mastic underlying brown 9"x9" floor tiles in Kitchen.
3. Red 9"x9" floor tiles and underlying mastic adhesive, Room #107B.

B. Maintenance Building (OMS)

1. White window putty.

Any activities that could potentially disturb these materials, including but not necessarily limited *to* sanding, scraping, coring, drilling, hammering, removal, or anchoring are prohibited.

If you encounter any material that you suspect is ACM, or if you disturb any ACM in the course of your work, you agree *to* immediately stop all work and contact the project superintendent and the Asbestos Program Manager.

If you have any questions concerning this notice or the presence of ACM in the building, you shall contact the Asbestos Program Manager.

The return of one signed copy of this Notice constitutes your receipt of the above information and your agreement with the requirements contained herein.

Receipt Acknowledged by (Type or Print Name)_____

Signature_____ Date:_____

Title (Type or Print)_____

Company Name (Type or Print)_____

Company Address (Type or Print)_____

Company Telephone Number (Type or Print)_____

4. OPERATIONS AND MAINTENANCE ACTIVITIES

The O & M activities to be conducted at the facility shall include routine and emergency cleaning of areas and surfaces that are potentially asbestos-contaminated (i.e., areas where visibly damaged friable ACBM exists on floors, on equipment, or on other surfaces), small-scale projects of short duration for removal or repair of ACBM, and periodic reinspection of locations within the facility where ACBM have been identified. Employees involved in O & **h4** activities shall be required to complete the O & M training specified in Part **3** of this O & M Program.

The following O & M activities are to be carried out only by employees with appropriate training:

1. Specific work practices for spot repairs of ACBM, and routine cleaning of visibly asbestos-contaminated areas or surfaces.

   a All persons other than those involved in the O & M activity shall be restricted from entry to the area by physically isolating the area. For spot repairs, airtight barriers shall be constructed to insure that asbestos fibers released during abatement activities are contained within the work area. The use of glovebags will be permitted in place of a barrier for repair of ACBM located on pipes

   b Warning signs shall be posted at the entrance to each work area. The warning sign shall read as follows:

DANGER
ASBESTOS
CANCER AND LUNG DISEASE HAZARD
AUTHORIZED PERSONNEL ONLY
RESPIRATORS AND PROTECTIVE CLOTHING
ARE REQUIRED IN THIS AREA.

   c. **Air** handling systems shall be shut off or temporarily modified to prevent entry of air from the work area into other parts of the building and to restrict other sources of air movement.

   d. All personnel within work areas shall be required to wear personal protective equipment. Full-body disposable fiber-resistant suits with foot coverings and hoods shall be worn over clothing while personnel remain within work areas. In addition, respirators shall be worn in accordance with the OSHA requirements for respiratory protection. At a minimum, half-mask dual-cartridge respirators equipped with **HEPA** filters shall be worn while remaining in the work area.

4. OPERATIONS AND MAINTENANCE ACTIVITIES (cont.)

e. When cleaning asbestos-contaminated floors or surfaces, personnel shall use proper work practices. Floor shall be cleaned by wet mopping, steam cleaning, and/or HEPA vacuuming. Other surfaces shall be cleaned by wet cleaning/wiping or by HEPA vacuuming. Vacuums without HEPA filtration shall not be used to clean asbestos-contaminated surfaces. Creating dust shall be avoided. All wet cloths, rags, or mops used to clean asbestos-contaminated surfaces shall be disposed of as described in **Part** 4.(4) below.

f. Spot repair shall be performed only on less than 3 linear feet or 3 square feet of insulation, and shall be conducted only in instances where asbestos abatement is not the principal purpose of the operation. Spot repairs of pipe, tank, or other thermal system insulation shall be conducted by patching sections of insulation using patching compounds of nonasbestos cement to fill in large gouges or missing sections of insulation. The insulation surfaces thus patched shall then be covered with fiberglass cloth impregnated with plaster. The fiberglass cloth shall be applied as follows:

i. Cut a sufficiently large section of fiberglass cloth to cover the affected areas of insulation. This cloth shall be wrapped around the entire diameter of the affected pipe.

ii The fiberglass cloth shall be dipped in a bucket of water and carefully placed over the damaged section of insulation without creating dust or debris. The cloth shall be smoothed by hand so that the cloth remains firmly attached to the insulation.

iii. Any dust or debris created by this operation shall be cleaned by wet cleaning or HEPA vacuuming.

g. Documentation of all spot repairs shall be maintained with the permanent building records. This documentation shall include, as a minimum, the identity of the skilled trades worker performing the spot repair, the date the spot repair was performed, the specific location of the repair, the methods used, the quantity of the asbestos involved, and receipts for the disposal of any asbestos waste.

2. Specific work practices for spot removal of ACBM by glovebag technique.

a Glovebag operations shall be conducted in conformance with the work practices set forth in the Occupational Safety and Health Administration (OSHA) Asbestos Regulation for Construction (29 CFR 1926.58 and 1926.1101). **A** glovebag is a single-use device that shall be disposed of after removal of a single section of ACBM pipe insulation.

4. OPERATIONS AND MAINTENANCE:ACTIVITIES (cont.)

b. Glovebag operations shall be allowed only for removing less than three **(3)** linear feet of pipe insulation for operations where the principal purpose is not asbestos abatement. No ACBM insulation shall be removed. without prior approval of the Asbestos Program Manager.

c. All requirements outlined in this Part 4 (1) (a), (b), (c), and (d) shall be adhered to when performing glovebag operations.

d. Glovebags shall be installed so that they completely cover the pipe in such a manner as to prevent leakage of air or asbestos fibers. The arms, open edges, and other openings in the glovebag shall be sealed with duct tape.

e. The ACBM shall be wetted before its removal and shall be maintained in a wet condition inside the glovebag.

The upper portion of the glovebag and surfaces from which asbestos has been removed shall be cleaned by wet wiping until no visible material remains.

g. Removed ACBM shall be deposited in the bottom of the glovebag A HEPA vacuum shall be employed to exhaust air from the bag. NOTE. Do not use vacuum without HEPA filtration to exhaust excess air from the glovebag The glovebag and its contents shall be removed from the pipe and immediately containerized in a second, labeled, 6-mil thick polyethylene bag before disposal.

3 Maintenance activities other than small-scale projects of short duration NOTE: All fiber release episodes, major or minor, shall be immediately reported to the Asbestos Program Manager.

a. Minor fiber-release episode (i.e., the falling or dislodging of three **(3)** square or linear feet or less of friable ACBM).

i. Thoroughly saturate the debris using wet methods in such a manner as to minimize disturbance of fibers.
ii. Place the asbestos debris in a sealed, leak-proof container.
iii. Clean the area by HEPA vacuuming and wet wiping/mopping of all visible debris in the area. NOTE: Do not use vacuums without **HEPA** filtration to clean asbestos-contaminated surfaces. All wet cloths, rags, or mops used to clean asbestos debris shall be disposed of as described in Part 4.(4) below.
iv. Repair the area of damaged ACBM with materials such as asbestos-free spackling, plaster, cement, or insulation, or seal with latex paint or an encapsulant.

4. OPERATIONS AND MAINTENANCI: ACTIVITIES (cont.)

v. Only employees who have received appropriate **O** & M training shall perform this work.

b. Major fiber-release episode (i.e., the falling or dislodging of more than three (3) square or linear feet of friable ACBM).

i. Immediately restrict entry into the area and post signs to prevent entry into the area by persons other than those necessary to perform the response action.
ii. Shut off or temporarily modify the air handling system to prevent the distribution of fibers to other areas in the building.
iii. Contact the area supervisor.
iv. Only a licensed Asbestos Abatement Contractor shall conduct the response action for any major fiber-release episode and only after the appropriate regulatory agencies are notified.

4. Waste disposal procedures

a. Wastes include process wastes, housekeeping wastes, removal job wastes, contaminated disposable protective clothing, and filters.

b. Vacuum bags and filters shall not be cleaned Instead, they shall be sprayed with a fine water mist and placed into a labeled waste container.

c. Process and housekeeping wastes shall be wetted with water **or** a mixture of water and wetting agent (penetrating-type fluid) before packaging them in disposable containers.

d. **ACBM** from removal jobs shall be disposed of in leak-proof, double 6-mil thickness plastic bags, plastic-lined cardboard containers, or plastic-lined metal containers. These wastes, which shall be wet when removed, shall be sealed in containers before they dry out in order to minimize fiber release during handling.

e. All asbestos generated at the facility shall be placed in a designated storage area(s). The asbestos waste shall be labeled, transported, and disposed of according to the United States Environmental Protection Agency (U.S. EPA) regulation Title 40 CFR Part 61.

5. PERIODIC REINSPECTION

At least once every six months, each building that contains ACBM or is assumed to contain ACBM shall be reinspected. The inspection shall be conducted by individuals familiar with the building and the locations of ACBM. Those individuals shall have been trained to perform O & M tasks or trained as Asbestos Inspectors. The findings of the reinspections shall be reported to the Asbestos Program Manager, and they shall be kept on file.

At a minimum, the following activities shall be performed during the reinspection:

1. Visually inspect all areas that are identified in the survey report as containing ACBM or as assumed to contain **ACBM.**
2. Record the date of the reinspection, name of the inspector, and changes in the condition of the materials, including damage due to water, contact, and other damage. Changes in building use that may have an impact an ACBM, such an installation of new equipment, shall be recorded.
3. Submit the information identified in the reinspection for inclusion in the survey report.

A checklist similar to the one in Figure **5-1** shall be used for the periodic reinspections.

In addition, air monitoring to detect airborne asbestos fibers in the building may be used to provide supplemental information during the physical and visual reinspection. Increases in airborne fiber concentrations from earlier levels may indicate unseen damage or disturbance to ACBM and may provide early warning of a potential probleim to the Asbestos Program Manager.

Figure 5-1

**CHECKLIST FOR
PERIODIC REINSPECIION
OF
ASBESTOS-CONTAINING BUILDING MATERIALS (ACBM)**

**First Lieutenant John S. Turner Army Reserve Center
180 High Street
Fairfield, Connecticut**

Checklist

Name of Inspector : _____

Date of Inspection : _____ _____

ACBM	Location	Change	No Change	Comments
Main Building				
Mastic adhesive underlying gray 9"x9" floor files	Basement hallway and Offices			
Mastic adhesive underlying brown 9"x9" floor files	Kitchen			
Red 9"x9" floor tiles and underlying mastic adhesive	Basement, Room #107B			
OMS				
White window putty	Windows			

6. RECORDKEEPING

The facility shall maintain records on employee training, personal air monitoring, medical surveillance, reinspection results, cleaning and other Operations and Maintenance activities, and asbestos abatement performed at the facility. In addition, minor and major fiber-release episodes shall be recorded and kept with this O & M Program.

Employee records concerning personal air monitoring and medical surveillance shall be maintained as outlined in the OSHA Regulation 1910.1001. This regulation requires that these records be kept on file for at least thirty **(30)** years.

For each preventive measure and response action taken for ACBM:, the facility shall keep records of the following:

1. A detailed written description of the measure or action, including methods used, the location where the measure or action was taken, reasons for selecting the measure or action, starting and completion dates of the work, names and addresses of all contractors involved, and, if ACBM are removed, the name and location of the storage or disposal site of the ACBM. Refer to Appendix M for detailed procedures for each type of response action.

2. The name and signature of any person collecting any air sample, the locations where samples were collected, date of collection, the name and address of the laboratory analyzing the samples, the date of analysis, and the method of analysis.

3. A record of the periodic reinspection required every six *(6)* months; the name of the inspector, the date, and changes in the conditions of materials noted during the periodic inspection.

4. A description of Operations and Maintenance activities, the name of each person performing these activities, the start and completion dates of the activities, the locations where such activities occurred, a description of the activities used, including preventive measures, and if ACBM are removed, the name and location of the storage **or** disposal site of the ACBM.

5 **A** description of each fiber-release episode, the date and location of the episode, the method of repair, preventive measures or response action taken, the name of each person performing the work, and, if the ACBM are removed, the name and location of the storage or disposal site of the ACBM.

TANK CLOSURE REPORT

UNDERGROUND STORAGE TANK REMOVAL
UNITED STATES ARMY RESERVE CENTER
FAIRFIELD, CONNECTICUT

FINAL

Contract No. DACW33-95-D-0004
Delivery Order No. 0012
DCN: UST-101698-AAEU

Prepared for:

U.S. ARMY CORPS OF ENGINEERS
NORTH ATLANTIC DIVISION
NEW ENGLAND DISTRICT
570 Patriot Avenue; Box 70
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Prepared by:

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One Wall Street
Manchester, New Hampshire 03101-1501

16 October 1998

W.O. No. 03886-118-012

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EXECUTIVE SUMMARY

EXECUTIVE SUMMARY

Roy F. Weston, Inc. (WESTON®), under contract to the U.S. Army Corps of Engineers, New England District (CENAE), was contracted to remove two underground storage tanks (UST) and investigate one suspected UST at the U.S. Army Reserve Center (USARC) located in Fairfield, Connecticut. These tanks were known to contain No. 2 fuel oil and their use was discontinued due to a conversion to natural gas. In addition to the removal of the USTs, an evaluation and cleaning was performed on the roof drain system on the east side of the USARC building/addition and a concrete sealant was applied to the north basement wall in the boiler room.

Removal of the two USTs at Fairfield USARC was performed between 11 May and 14 May 1998. Both the 1,000 and 5,000 gallon tanks were observed in-tact and without leakage. Samples were collected from soil surrounding the tank as required by the State of Connecticut, Department of Environmental Protection (CTDEP) Tank Closure Regulations. Sample results were evaluated and results were below the most conservative CTDEP remediation standards for residential areas. No further action was required.

An additional investigation of oily-water infiltration in the basement boiler room was performed at the request of CENAE. Samples were collected from the soil located below the basement boiler room floor at a depth of about 14 ft below ground surface (bgs) and the groundwater along the building foundation. These samples indicate that petroleum hydrocarbons that were detected in the soil are isolated, probably as a result of poor housekeeping within the basement. No further investigation or remediation is required at this time, however, if the property owner intends to remove the foundation in the future, further investigation may be warranted.

The roof drain system on the north and east sides of the USARC building were cleaned and are operational. All of the roof drains on this side of the building are currently discharging into the catch basin in the parking area on the east and north sides of the USARC building. It is recommended that periodic cleaning be performed to ensure that these drains remain free of leaves and debris.

SECTION 1

INTRODUCTION

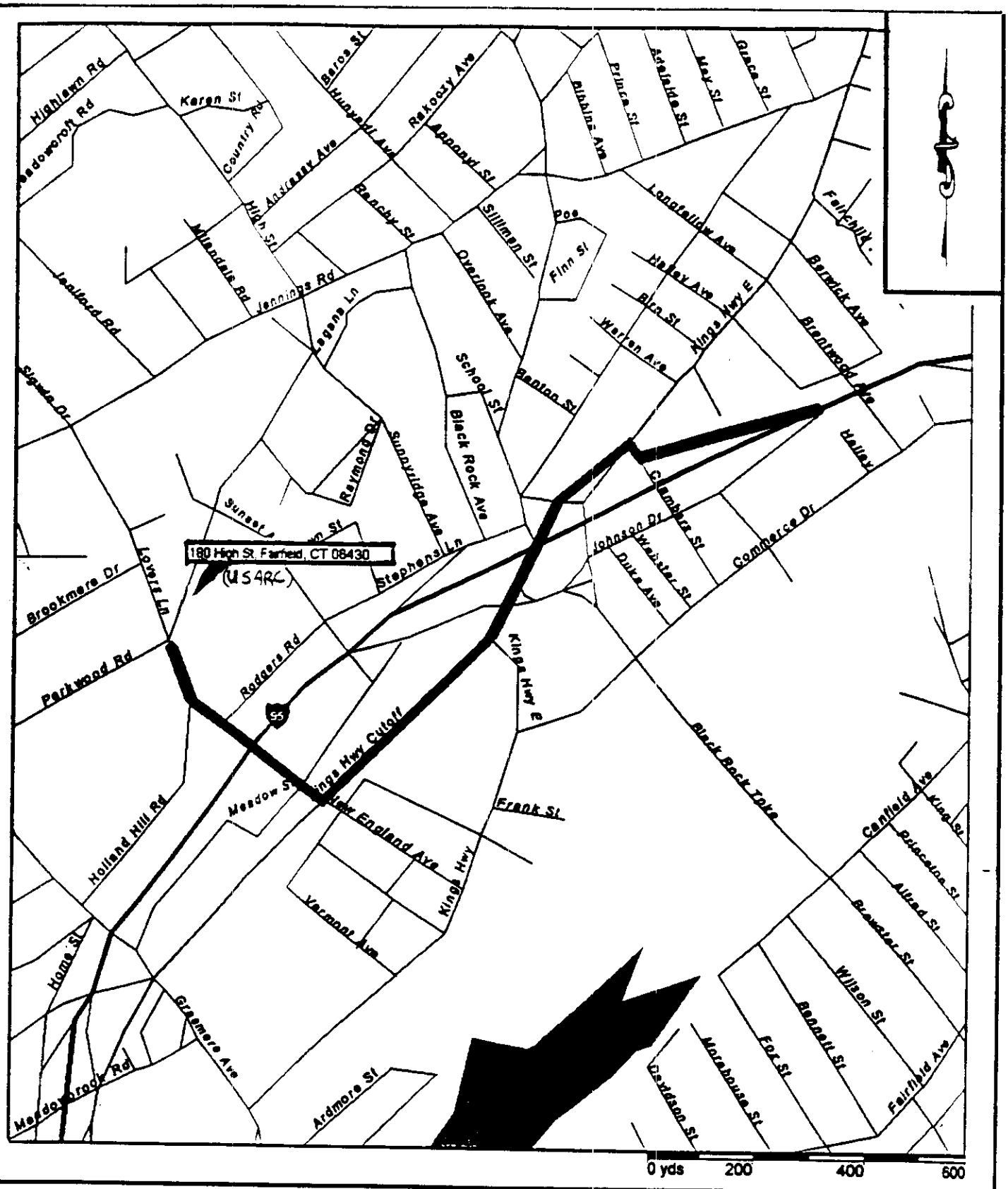
1. INTRODUCTION

Roy F. Weston, Inc. (WESTON®), under contract to the U.S. Army Corps of Engineers, New England District (CENAE), was contracted to remove two underground storage tanks (UST) and investigate one suspected UST at the U.S. Army Reserve Center (USARC) located in Fairfield, Connecticut. Maps showing the site locus and location of the USTs within the facility are included as Figures 1-1 and 1-2, respectively. The USTs at the site were known to contain No. 2 fuel oil and the size and construction of the removed storage tanks are outlined in Table 1-1 below. The storage tanks located at the facility were not in use at the time of removal because of a conversion to natural gas.

Table 1-1
Storage Tank Information

Location	Capacity (gal)	Installation Date	Construction Material	Dimensions
East side of USARC Bldg.	5,000	1976	Steel	13 ft long by 8 ft ϕ
East side of OMS Bldg.	1,000	1990	Double-walled Fiberglas	8 ft long by 6 ft ϕ

In addition to the storage tank removals, WESTON was responsible for the following additional items: sealing of the north basement wall in the boiler room; performing an evaluation of the roof drains on the east and north sides of the Fairfield USARC building; and improving drainage from the basement sump. Repairs to the roof drain system were to be made as necessary. Following tank removal and at the request of CENAE, WESTON investigated oily-water infiltration in the basement boiler room.



UST REMOVAL
U.S. ARMY RESERVE CENTER
FAIRFIELD, CONNECTICUT

DEPARTMENT OF THE ARMY
NEW ENGLAND DISTRICT
CORPS OF ENGINEERS
WALTHAM, MASSACHUSETTS

SITE LOCUS PLAN

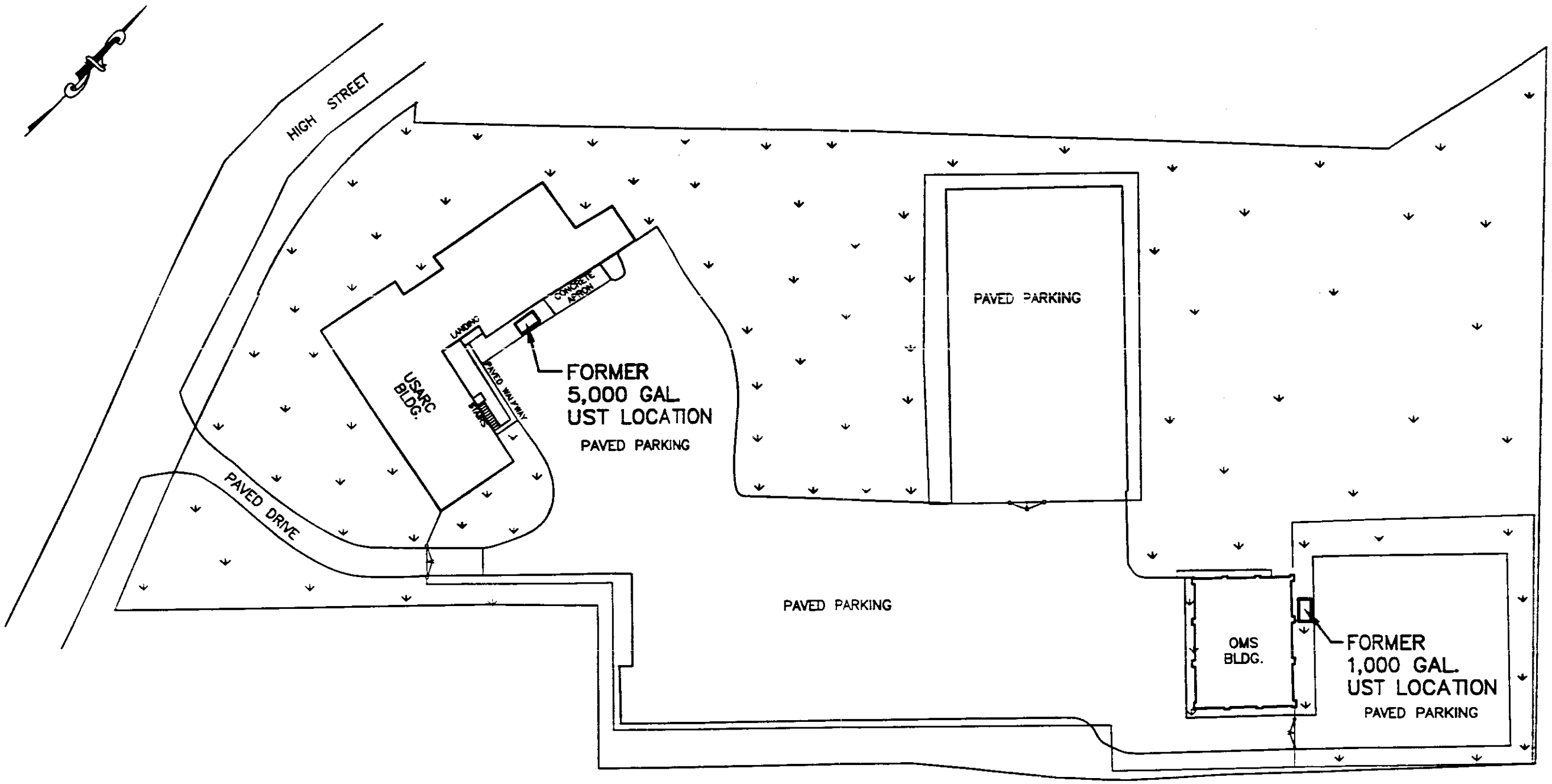
WESTON MANAGERS MANCHESTER DESIGNERS/CONSULTANTS NEW HAMPSHIRE

DRAWN	K.J.C.
DATE	SEP 98
FIGURE NO.	1-1

FILE NAME: \DESIGN\DWG\ACOE\USTRAO\USARC\FAIR-1.DWG (PLOT 1=1)

SECTION 2

APPROACH



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UST REMOVAL
U.S. ARMY RESERVE CENTER
FAIRFIELD, CONNECTICUT

SITE PLAN

DEPARTMENT OF THE ARMY
NEW ENGLAND DISTRICT
CORPS OF ENGINEERS
CONCORD, MASSACHUSETTS

WESTON MANAGERS DESIGNERS/CONSULTANTS MANCHESTER NEW HAMPSHIRE

DRAWN T.A.C.
DATE OCT 98
FIGURE NO. 1-2

2. APPROACH

This section describes the approach for removal of the former storage tanks and their contents, sampling of the former tank graves, evaluation of roof drains, and sealing of the basement wall. A list of personnel involved with the project is provided in Table 2-1.

2.1 TANK REMOVAL

Cleaning and removal of the USTs were performed by the Tyree Organization of Brookfield, Connecticut (TYREE). Prior to removal of the USTs, residual sludges and product were vacuumed out to the extent possible from the fill holes and other readily available access points. All cover material was removed from the top of the tank, exposing the fill holes, vents, and electronics (leak detection systems, level gauges). These connections to the tank were locked out where necessary or disconnected prior to tank removal. A trench was then dug along one side of the tank, allowing space for the tank to move and break free of the remaining fill material. Using appropriate lifting devices, the tank was pulled away from the surrounding material into the dug trench and lifted from its grave. Following removal, the tank was moved to an adjacent location where it was thoroughly cleaned and ultimately removed from the site.

2.2 SAMPLING

WESTON performed field screening and sampling activities and Connecticut Testing Laboratories (CTL) of Meriden, Connecticut provided analytical services. Requirements for soil sampling were defined by CTDEP as outlined in "Sampling and Analytical Methods for UST Closure". The protocols for sampling the former UST graves require that samples be collected from the native soil located at each of the four bottom sidewalls and at each end of the tank. In addition, one sample was required at intervals of 20 linear feet along the piping. Potential contaminants included compounds associated with fuel oil, therefore samples were analyzed for

Table 2-1
Project Personnel

Name	Affiliation	Phone Number
Gregory A. Snicer	WESTON/Site Manager	(603) 656-5400
Todd K. Walles	WESTON/Project Manager	(860) 368-3200
John Sujat	CENAE/Field Inspector	(413) 593-6791
Raymond Goff	CENAE/Project Manager	(413) 593-6791
Gary W. Puryear	94th Reg. Support Command/Environmental Coordinator	(978) 796-2238
Brian G. Snow	ENSR/Environmental Manager	(978) 796-2506
SFC Peter Thompson	USARC Facility Manager	(203) 259-7819
Steve Maheu	Tyree/Project Contact	(203) 740-8200
Robert Blow	Tyree/Crew Leader	(203) 740-8200
Chris Kuebler	Tyree/Crew Member	(203) 740-8200
Jim Tozzi	Tyree/Vac Truck Operator	(203) 740-8200
Helen Goghegan	CTL/Laboratory Contact	(203) 634-3731
Lt. William Kessler	Fairfield Fire Marshall	(203) 254-4720

total petroleum hydrocarbons (TPH) using EPA Method 418.1, volatile organic compounds (VOC) using EPA Methods 5030A/8260A, and semivolatile organic compounds (SVOC) using EPA Methods 3540B/8270B. These analyses are consistent with CTDEP requirements for tank closure.

During soil removal, headspace samples were collected from excavated material and screened using a field organic vapor meter (OVM) at a frequency of about 1 per 5 cubic yards. In addition, headspace samples were collected from points below fuel piping and around fill holes at the same frequency or more frequently, as warranted, based on field observations.

The excavated material was segregated according to field screening results, with material exceeding 100 headspace units being classified as contaminated. Where necessary, clean (<100 units) material was segregated from potentially contaminated material (>100 units).

At the request of CENAE, additional samples of the soil located beneath the basement floor and groundwater located adjacent to the basement wall were collected. Soil was analyzed for TPH, VOC, and SVOC. The groundwater was analyzed for VOC and TPH. Soil and groundwater located behind the concrete wall and floor surfaces were obtained by using a demolition hammer to drill through the concrete surfaces. Soil below the floor was collected using a decontaminated auger after removing the concrete fragments and the stone foundation base. Groundwater was collected directly through the drilled holes after allowing the seepage to enter (purge) for about 20 minutes. All concrete surfaces were cleaned prior to drilling. Following sample collection, the holes were patched using hydraulic cement.

2.3 ROOF DRAIN EVALUATION

Inoperable roof drains in some locations on the east and north sides of the building contributed to poor drainage and water buildup in the immediate vicinity along the building. WESTON performed a visual evaluation of the building roof drain system which revealed several clogged roof gutters, downpipes, and roof drain piping. To the degree possible, roof gutters, downpiping, and roof drains were cleaned and washed using a hose and snaked using a commercially-available wire snake. Where clogging could not be removed using these methods, pressure jetting services were provided by Roto Router of Bridgeport, Connecticut.

2.4 BASEMENT CLEANING

Due to previous water infiltration, the walls and floor in the boiler room (located in the basement) of the USARC building were visibly stained by iron residuals. In addition, the floor was generally soiled from years of oil combustion and boiler maintenance. The basement floor and the iron-stained portion of the wall (up to approximately 6 inches from the floor) was scrubbed with Simple Green cleanser and pressure washed. The wash water and standing water in both of the floor sumps were pumped using a vacuum truck and disposed at an off site facility.

2.5 BASEMENT SEALING

During periods of high groundwater, the basement was subject to groundwater infiltration through a ¾-inch wide by 4-inch deep gap between the foundation floor and wall. Infiltration and staining was apparent on all sides of the basement floor. On occasions where the volume of water seepage was high, standing water accumulated on the floor to measurable depths and eventually ran into one of two floor sumps.

The bulk water is evacuated from a round floor sump that is located adjacent to the basement stairs using a submersible pump. This pump is currently plumbed into the sanitary sewer system. This sump was installed at about the time of building erection and is fed by three floor drains located in the basement and outside the exterior door. A second rectangular sump, located adjacent to the basement exterior entrance, was installed at an unknown later date, likely in response to a flooding event in the basement. This sump formerly discharged to the ground surface adjacent to the basement stairs. At the request of CENAE, a TPH soil sample was collected at the discharge to evaluate whether contamination of surface soils resulted from discharge of the accumulated water in the basement. This sump was evacuated of water and filled to grade prior to cleaning the basement floor.

In accordance with the Work Plan and submittals, Silpro Easy Mix Seal Cote (Silpro Masonry Systems, Inc., Ayer, Massachusetts) was applied to the north interior wall of the basement. The gap between the wall and floor was sealed with Sikaflex-1a caulking (Sika, Lyndhurst, New Jersey). Information sheets for the sealant and caulking are included in Appendix A.

SECTION 3

SITE WORK

3. SITE WORK

Field activities at the Fairfield USARC commenced with the pre-construction meting on 11 May 1998 attended by representatives from WESTON, CENAE, TYREE, and USARC staff. On that day, supplies and equipment were mobilized to the site and the work zone was established around the 1,000 gallon UST used to supply heating oil to the OMS Building boiler. Using a vacuum truck, the bulk of the residual sludge and fuel oil, was removed from both the 1,000 gallon UST and 5,000 gallon UST. Estimated residual volume for each tank was 224 and 61 gallons, respectively. In addition, approximately 25 gallons of runoff water was removed from the rectangular basement sump to better assess potential sources of water to the sump.

3.1 UST REMOVALS

On 11 May, The 13.5 ft x 5 ft x 8-inch thick concrete pad covering the 1,000 gallon UST was removed, exposing the tank bedding material. Headspace samples were collected from the material surrounding the fill pipe and revealed no detectable organics on the OVM. Because of the overfill protection container built around the tank fill pipe, the likelihood of contamination due to overfill was low. The electronic leak monitor and petrometer was removed from the interior wall of the OMS building. These systems were forwarded to the 94th Regional Support Command.

The 1,000 gallon UST was exposed and removed the following day. No evidence of leakage or breach in the tank protection system was observed. Additional headspace samples were collected during removal of the material surrounding the tank. No readings above the background (i.e. increase in readings from those observed in the air around the site) were observed. Upon removal of the tank, it was apparent from the lateral extent of the stone fill (angular pea stone) that excavation had been previously performed in the vicinity of the tank. This excavation was likely the result of removal of a previous tank and excavation of the soil in the immediate vicinity. The stone extended approximately 10 ft south, west about 3 ft to the side of the OMS building, and about 15 ft east into the parking area. Native soil was visible off of the north side of the tank. Average depth of the stone was about 10 ft. The tank grave was inspected by the Fairfield Fire Marshall on 13 May 1998.

Samples were collected on 12 May 1998 at the bottom of the tank on the four sidewalls and from each end of the tank as required by the CTDEP tank closure regulations. A map showing the locations of the samples is included in Appendix B. These samples, FFD-1-00-0 through FFD-1-05-0 (results/summary table located in Appendix C), had no detectable TPH, VOC, and SVOC and were below regulatory thresholds. As a result, the stone was placed back into the open tank excavation on 14 May 1998. Due to the propensity of stone fill to settle with maximum compaction, no compaction testing of the stone fill was performed. Final grading, loaming, seeding, and mulching of the area was performed 18 June 1998.

The 5,000 gallon UST formerly used for storage of heating oil for the USARC building boiler was located off the east side of the building addition. This UST was uncovered on 13 May 1998 and removed from the ground. No evidence of product or staining was found in the tank excavation. Minimal pitting was observed on the metal tank surface.

Field screening was performed around the tank fill pipe using an OVM and headspace readings were not detected above the site background. Field screening was also performed on material excavated from around the UST to a depth of about 12 to 13 ft below ground surface (bgs). The material surrounding the tank to a depth of about 6 ft bgs (east side) and 12 ft bgs (west side) consisted of brown sandy gravel with cobbles and some construction debris. Below the sand, a gray-blue silty clay layer was encountered.

This UST extended to a depth of approximately 12 ft bgs into a gray-blue clay material. Perched water was observed on the top of the clay in the sand fill, however, no headspace readings were observed in the soil removed or in the perched water. Some headspace readings above background were observed in the clay material at or below the location of the tank bottom from 12 to 14 ft bgs. These readings ranged from background to about 100 units on the OVM.

Samples were collected on 13 May 1998 at the bottom of the tank on the four sidewalls and from each end of the tank as required by the CTDEP protocol. A map showing the locations of the samples is included in Appendix B. These samples, FFD-2-00-0 through FFD-2-05-0 (results/summary tables located in Appendix C), had detectable concentrations of TPH, VOC, and SVOC but all were below regulatory thresholds. The tank excavation was inspected by the Fairfield Fire Marshall on 13 May 1998. In addition, one sample, FFD-2-06-0 (results/summary

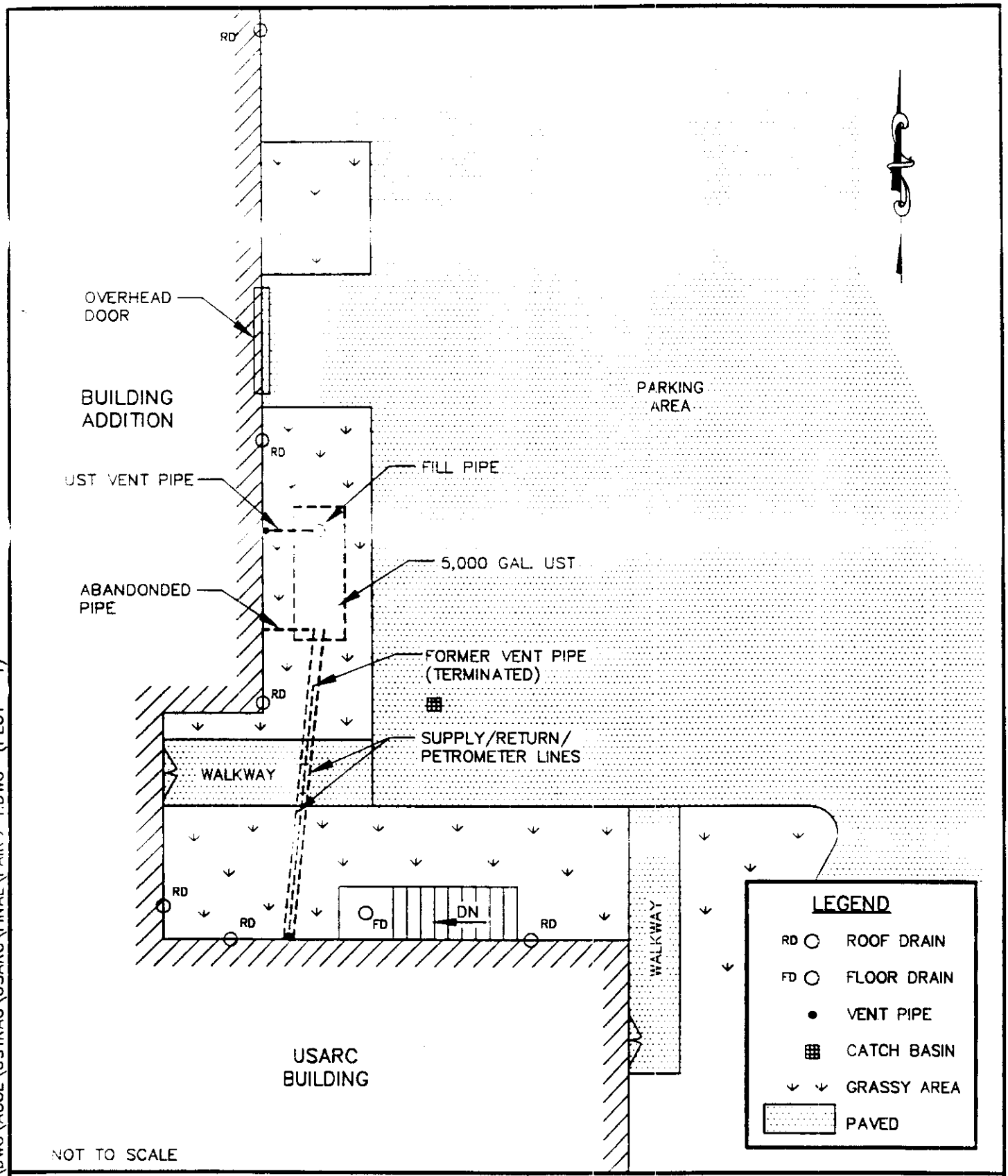
table located in Appendix C), collected prior to backfill from below a joint in the supply piping on 14 May 1998 had no detectable TPH, VOC, or SVOC.

The material was placed back into the open tank excavation on 14 May 1998 and compacted in 1 to 2 ft lifts using the Caterpillar 325 Excavator. Clean tank bedding material from an above ground storage tank (AST) that was removed previously at the West Hartford, Connecticut USARC was used to supplement the existing supply of fill. Final grading, loaming, seeding, and mulching of the area was performed 18 June 1998.

3.2 BUILDING INVESTIGATION

A vent pipe with an unknown destination was located adjacent to the north side of the USARC building. It was suspected that an additional UST may have existed at a location just off of the north side of the building and may have been abandoned after construction of the building addition. A trench was excavated to the bottom of the of the boiler room foundation on 14 May 1998 in an attempt to investigate this location. The vent pipe was traced to the vicinity of the former 5,000 gallon UST location. This pipe was apparently cut prior to installation of the 5,000 gallon UST. Excavation of the vent pipe and discovery of additional abandoned lines suggested that there had been a tank in the location of the 5,000 gallon UST which was replaced around the time of the building addition construction. A map showing the 5,000 gallon UST location and former lines is included as Figure 3-1.

From the exploratory trench (in the vicinity of the building foundation), the soil lithology appeared similar to that adjacent to the 5,000 gallon UST (approximately 50 ft from the building foundation). From 0 to 12 ft bgs, a medium sand fill with some cobbles was encountered. In the bottom portion of the fill (11 to 12 ft bgs), the fill was saturated from perched water above the underlying clay layer. A layer of blue-gray clay extended from 12 ft to about 16 ft bgs where the excavator was unable to penetrate further (refusal). Headspace readings on the fill material were at background and ranged from 25 to 50 units in the clay (refer to Appendix C for complete field screening measurements).



UST REMOVAL
U.S. ARMY RESERVE CENTER
FAIRFIELD, CONNECTICUT

DEPARTMENT OF THE ARMY
NEW ENGLAND DISTRICT
CORPS OF ENGINEERS
WALTHAM, MASSACHUSETTS

SITE LAYOUT

WESTON MANAGERS DESIGNERS/CONSULTANTS
MANCHESTER NEW HAMPSHIRE

DRAWN	K.J.C.
DATE	JUL 98
FIGURE NO.	3-1

FILE NAME: ..DESIGN\DWG\ACOE\USTRAO\USARC\FINAL\FAIR5-1.DWG (PLO. 1)

At the request of CENAE, soil samples were collected from two locations beneath the boiler room floor and one groundwater sample was collected from the west side of the basement wall at a height of about 6 inches above the floor. These samples were collected in an attempt to determine the extent and sources of oily-water observed at the floor/wall interface during periods of high groundwater. The groundwater sample, FFD-3-04-0, collected on 9 June 1998 did not show any detectable TPH or VOC in the groundwater adjacent to the basement foundation.

Two soil samples, FFD-3-00-0 and FFD-3-00-1, were collected from the same location on 26 May 1998 beneath the foundation floor adjacent to the wall joint where oily water staining was observed. Sample results, included in Appendix C, indicate TPH concentrations at 2,605 and 4,034 mg/kg, respectively. No significant levels of VOC or SVOC were found in either of these two samples. Due to the elevated TPH results, a second soil sample, FFD-3-03-0, was collected on 9 June 1998, beneath the floor adjacent to the south basement wall (downgradient). Results for this sample, included in Appendix C, show no significant levels of TPH, VOC, and SVOC. A map showing the location of the samples collected in the basement is included in Appendix B.

3.3 ROOF DRAIN EVALUATION

A visual evaluation of the roof drains on the north and east sides of the USARC building was performed on 11 May and concluded that blockages in the roof drain system were primarily at the junction of the roof drain and the downpipe structures. The entrances to the downpipes were typically blocked with leaves, pine needles, and sticks to a point that restricted water passage and caused them to overflow. Using a commercially-available snaking device, the blockages in the roof drains were removed and the downpipes were flushed. Because some of the drains were not regularly maintained, some downpipes were obstructed at the junction between the downpipe and the drain piping at the ground level. In these cases, sections of downpiping were removed and cleaned.

One run of buried 4-inch clay drain piping was plugged and could not be cleaned with a drain snake. This section was cleaned by Roto Router on 20 May 1998. In addition, a few sections of the buried clay drain piping were located within the UST excavation area. These sections of piping which were damaged during excavation were replaced with polyvinyl chloride (PVC) sections of equivalent diameter after the UST excavation was complete. After cleaning of the

final section of drain piping, all roof drains and lines on the east and north side of the USARC building addition were operable and draining into the catch basin off of the north side of the building in the parking area.

3.4 BASEMENT SEALING

On 18 June 1998, poly sheeting was placed over electrical panels and equipment located in the boiler room part of the basement in the Fairfield USARC. Simple Green cleaner was applied to the concrete basement floor and the walls to a height of about 6 inches (where water stains were apparent). The cleanser was applied, scrubbed, and washed up to three times. The rinsate water was pushed into the floor sumps where it was vacuumed out with a vacuum truck. Approximately 328 gallons of rinsate water were removed from the site during the cleaning operations.

During the exterior excavation along the north basement wall for the suspect UST on 13 May 1998, the exterior portion of the north basement wall was exposed. A black asphalt-like coating was observed on the wall, indicating that the wall was sealed on the outside. Limited access to the area in the vicinity of the building footing and the potential to compromise the structural integrity of the building made excavating the entire exterior wall of the boiler room not feasible without the use of specialized excavation equipment and shoring. As a result and in concurrence of CENAE, no additional work was performed on the exterior wall.

On 18 June 1998, the 3 ft x 4 ft x 3 ft deep rectangular floor sump was abandoned. The former sump pump was removed and the sump hole was filled to 6-inches below the floor grade with crushed stone. Concrete was mixed and poured over the stone to match the grade of the existing floor. The former outlet piping was removed from the interior and exterior walls and the foundation hole for the pipe was patched. A soil sample, FFD-4-00-0 (Appendix C), was collected from the soil at the exterior sump outlet to confirm that the soil at the discharge had not been affected. Because no TPH was detected, further investigation or soil removal was not performed at the discharge location.

After cleaning of the basement floor, a gap between the floor and basement wall with dimensions ¾ inch by 4 inches deep (floor thickness) was apparent around the perimeter of the basement. In

some sections of the wall/floor joint, an aged caulking was visible, however, most locations with caulking did not have the ability to prevent water infiltration. On 7 July 1998, this gap was cleaned of silt, debris, and decrepit caulking and filled with an expandable foam sealant, to a depth of about ¼ inch below the floor surface. After the foam sealant had cured for about 1 to 2 hours, the wall to floor joint was cleaned and dried. Infiltration (seepage) was visible on the south and west sides of the basement floor during cleaning operations. Sikaflex-1a caulking was placed on top of the hardened foam and worked into the gap to form a seal with the existing concrete floor and wall.

The north interior wall and adjacent wall joint was sealed with Silpro Easy Mix Seal Cote. Two separate applications were used to ensure complete coverage and adequate penetration.

The drains located on the basement floor and exterior stairwell were pressure-jetted along with the exterior roof drain piping by Roto Router on 20 May 1998 to remove potential or partial blockages in the piping leading into the floor sump.

SECTION 4

TRANSPORTATION AND DISPOSAL

4. TRANSPORTATION AND DISPOSAL

Transportation and disposal of contaminated liquids generated during the removal of the underground storage tanks were disposed of in accordance with federal and state regulations at Tyree's Farmingdale, NY facility. In general, the wastes consisted of oil-contaminated water and included the following:

- Residual Product and Sludges
- Rinsate from Tank Cleaning Activities
- Brine Solution from Tank Leak Detection System
- Rinsate from Basement Cleaning Activities

A total of 779 gallons of these fluids was removed from the site. Copies of hazardous materials shipping forms for all waste shipments are included in Appendix D.

The former USTs were removed in-tact once they had been cleaned on 15 May 1998 and brought to Novella in Bridgeport, Connecticut for final disposal. A copy of the tank disposal receipt is included in Appendix D.

SECTION 5

CONCLUSIONS AND RECOMMENDATIONS

5. CONCLUSIONS AND RECOMMENDATIONS

The 1,000 gallon UST and 5,000 gallon UST were removed. Confirmation samples collected from both of the tank graves satisfy applicable CTDEP criteria for tank closure. As a result, no further action is required at either of the tank locations. At this time, the 94th Regional Support Command should submit an Underground Storage Facility Notification Form to the CTDEP indicating that both USTs have been removed from the property. The analytical data should be submitted to CTDEP along with this form as supporting data for the tank closure.

Exploratory excavations were made adjacent to the north side of the building. There was no evidence of a tank and no observations of oily residuals or staining in soil or groundwater. Soil samples collected from beneath the basement floor along the north wall did exhibit residual hydrocarbons at levels of 2,605 and 4,034 mg/kg.

It is suspected that the elevated TPH is the result of a previous release or poor housekeeping inside the basement that migrated into the crack(s) around the wall/floor interface. As a result, during periods of seasonally high groundwater, oily water residuals may detatch from material that has settled on sediment and caulking. The foundation cracks which may have lead to the elevated hydrocarbon results were cleaned, filled, and recaulked, thus removing the oily residuals inside around the building perimeter.

WESTON solicited the opinion of a State of Connecticut Licensed Environmental Professional (LEP) as to the state of regulatory compliance with the applicable CTDEP regulations. In the opinion of the LEP (included as Attachment E) it was determined that the sampling performed at the USARC facility in Fairfield, Connecticut, in the area of the underground storage tanks and basement furnace room was representative of the observed conditions. A concentration of total petroleum hydrocarbons above the industrial/commercial direct exposure criteria and GB pollutant mobility criteria was evident in the soil at one location beneath the basement furnace room floor. Because the soils are environmentally isolated and inaccessible as described in the RSRs, the criteria are not applicable to these soils. If the RSRs were applicable, the placement of an environmental land use restriction on this area is required.

As an additional investigation, a soil sample was collected downgradient of the basement and a groundwater sample was collected near the area where staining was observed. Both results were below even the most stringent residential remediation standards set by CTDEP. These sample results, in conjunction with field observations and analytical samples collected at the 5,000 gallon UST grave, support the conclusion that the sample along the north wall is likely not indicative of a large area of contamination. Based upon the recommendations of the LEP, additional investigations and/or remediation efforts do not appear necessary. Since the RSRs do not strictly apply to tank closure sites, an environmental land use restriction does not appear to be necessary. Natural degradation of the contaminants should reduce the concentration of the contaminants to an acceptable concentration in a reasonable time period. However, even though the groundwater in the area of the site is classified as GB (not suitable as a drinking water source), it should be confirmed that the groundwater in the immediate vicinity is not used as a drinking water source.

Two sources may have contributed to the water accumulating on the basement floor including; (a) constant drip from a 2-inch black iron water circulation line in the southwest corner of the basement and (b) groundwater infiltration through an electrical conduit hole in the wall. It is recommended that the pipe joint should be tightened and the conduit hole through the concrete should be filled to minimize the amount of seepage into the basement.

The roof drain system on the north and east sides of the USARC building have been cleaned and are operational. All of the roof drains on this side of the building are currently discharging into the catch basin in the parking area on the north side of the USARC building. It is recommended that periodic cleaning to ensure that these drains remain free of leaves and debris.

The sump pump inside the basement boiler room that had discharged to the building exterior has been removed and the collection sump has been filled to the existing slab grade. The soil sample collected at the former discharge showed no detectable TPH. No further investigation is warranted.

APPENDIX A

SEALANT INFORMATION SHEETS

SILPRO
MASONRY SYSTEMS INC

STONY BROOK PARK / 2 NEW ENGLAND WAY / AYER, MASSACHUSETTS 01432 / 508-772-4444 / 1-800-343-1501 / FAX 1-508-772-7456

Easy Mix Seal Cote

SILPRO EASY MIX SEAL COTE is a Portland cement based coating to be brushed on vertical concrete and masonry surfaces. SEAL COTE waterproofs, protects, and decorates new and old masonry and concrete. Use it indoors or out, above or below grade.

ADVANTAGES

- Penetrates and seals the pores and voids of concrete and masonry walls preventing water penetration
- Stops water absorption of concrete block including split face block
- Seals face and joints of old porous brick walls eliminating need for tuck pointing
- Stops water leaking from cisterns, concrete tanks, swimming pools and reservoirs
- Prevents water from entering basements, elevator pits and machinery pits
- Safe for use in contact with drinking water
- Lasts 2-3 times longer than paint
- Unlike a paint film, SEAL COTE breathes allowing passage of moisture vapor which can accumulate and cause paint to blister and peel.
- Fills and levels minor surface imperfections and dries to a pleasant texture
- Eliminates costly rubbing
- Extends the coverage and useful life of masonry paints applied over it
- Long lasting finish will not shrink, peel, erode
- Use of C-21 ACRYLIC LATEX ADMIX is recommended for adhesion to smooth concrete, stone or anywhere maximum adhesion is desired. (See Technical Bulletin #6.0.)

TEST DATA

Compressive Strength (ASTM C-109): 11350psi

Absorption (ASTM C-67)

24 hr. soak Percent of Absorption:	0.9%
Saturation coefficient:	.24
Water Permeability:	.08
(Brand "T":	.35)

Test conducted by Thompson & Lichtner Company.

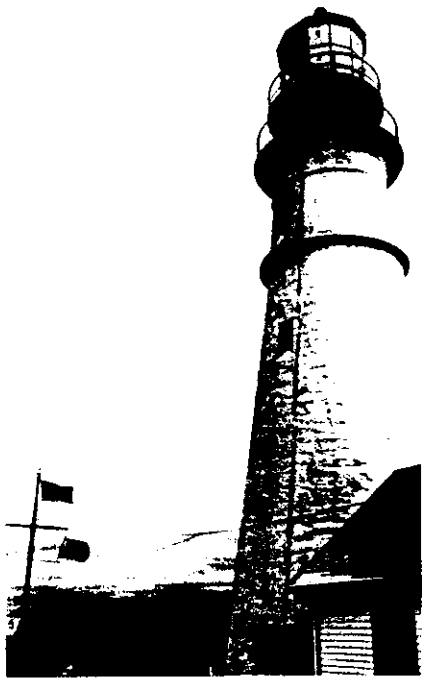
SURFACE PREPARATION

Proper bonding is essential for performance and durability. Surface must be clean and sound for good bonding. Chip or grind off efflorescence, protruding cement, and deteriorated concrete. Remove oil and form release agents. Remove dirt, mildew, and water-soluble materials such as calcimine. If necessary, use a strong cleaner such as tri-sodium phosphate and rinse thoroughly.

Painted surfaces should be ground, sand blasted or wire brushed so that 80% of the original surface is exposed. Stop weeping and flowing water with SILPRO EASY PLUG (Bulletin #2.0). Cut back tie wires and fill all holes, etc. with SILPRO EASY PLUG or EASY PATCH (Bulletin #2.1).

NOTE: On exterior applications, prior to coating, (especially where there is a horizontal surface) wash down with a mild solution of Muriatic Acid because surface salts could become trapped and cause efflorescence.

Jobsite: New Hampshire State Correctional Facility, Concord, NH
Architect: PMR Architects, P.C., Nashua, NH, David N. Page, Principal in Charge
General Contractor: Pizzagalli Construction Co., So. Burlington, Vermont
Waterproof Coating Subcontractor: Assoc. Concrete Coatings, Manchester, NH



Portland Head Lighthouse
U.S. Coast Guard Facility
Cape Elizabeth, ME

MIXING

For brush applications: Approximately 6 or 7 quarts of clean potable water will be required for each 50# of SEAL COTE.

Power mixing is best accomplished by placing a little more than half the required liquid in a clean container and adding the SEAL COTE powder. Additional liquid is then added to achieve the desired consistency.

If mixing by hand, add liquid to powder.

Mix to a heavy batter consistency. Allow mix to stand for 10 minutes to permit the dry ingredients to absorb the liquid. Then retemper adding enough liquid to restore the desired consistency.

Working time is approximately 2 hours.

For trowel applications: Add 25# of clean silica sand to each 50# bag with enough liquid for a trowelable consistency, approximately 5 to 6 quarts.

When coating poured concrete, previously painted surfaces, other dense surfaces, or when maximum bond is desired, add two quarts of SILPRO C-21 ACRYLIC LATEX ADMIX to each 50# of SEAL COTE replacing an equal amount of water.

APPLYING

Dampen surface immediately before applying SEAL COTE for ease of application and improved bond. Do not saturate.

For brush applications, lay on the SEAL COTE with the side of a heavy bristled masonry brush and work it into the surface with the bristles. Apply about 2# of mix per sq. yd. (1 kg./sq. m.). If SEAL COTE pulls and does not spread easily, dampen the wall again. It may then be brushed or floated smooth. Let dry overnight.

To true up surfaces and hide joints and patches, first apply a trowel coat mixed as above and rod straight and true. Allow it to set overnight and then apply a brush coat.

For below-grade waterproofing or application over rough or porous surfaces a second coat should be applied. Dampen first coat and apply a second coat at about 1# per sq. yd. (500 gr./sq. m.).

For below-grade applications, apply two coats as above but make sure each coat extends down onto and over the footing. Work from the top down for best results.

For inside basement walls, prepare the surface as above. If water pressure is present, relieve the pressure by drilling weep holes in the wall at the floor line. Make a cove joint between the floor and wall with SILPRO EASY PLUG and coat the wall for two and a half feet above the floor with SEAL COTE. When dry apply a first and second coat as above working from the sill down. Let dry 24 hours then fill the weep holes with EASY PLUG and cover immediately with SEAL COTE.

For cisterns, reservoirs, and swimming pools, clean surface to remove loose, or unsound material, scum and all foreign material by sandblasting or other methods. Repair cracks with SILPRO EASY PLUG or suitable flexible caulk. Mix SEAL COTE with C-21 ACRYLIC LATEX ADMIX per instructions above and apply 2 coats at minimum of 2# per sq. yd. (1 kg./sq. m.) each. Let cure for 7 days and rinse with clean water before filling.

CURING

Applications using C-21 ACRYLIC LATEX ADMIX should not be damp cured except in extreme hot, dry or windy conditions and then only with a light fog of clean water on the day of application.

Applications without C-21 should be fogged every few hours on the day they are applied.

Cement plaster or any other cement based coating may be applied the day following the SEAL COTE application. However, if the surface is to be painted, allow it to cure for ten days.

PACKAGING

50# Plastic lined bag

COVERAGE

Per 50# Bag:

Over brick or block

First coat: 150-200 sq. ft. (14-19 sq. m.)

Second coat: 200-300 sq. ft. (19-28 sq. m.)

Over poured concrete

First coat: 200-250 sq. ft. (19-23 sq. m.)

Second coat: Approx. 400 sq. ft. (37 sq. m.)

SPECIAL INFORMATION

SEAL COTE should be applied only when the temperature of the AIR AND SURFACE is above 40°F (5°C) and will not fall below that for 24 hours after application.

In storage SEAL COTE is unaffected by temperature but must be kept dry.

Do not add colors to SEAL COTE as the finish will not dry uniformly.

It should not be applied to oily, frozen, or soft powdery surfaces or where hydrostatic pressure (weeping) is present in the substrate.

CAUTION! Irritating to Eyes and Skin
Contains Portland Cement

Product is alkaline on contact with water. During mixing and application avoid contact with eyes. In case of such contact, flood eyes repeatedly with water and CALL PHYSICIAN. Avoid prolonged contact with skin. Use of gloves is recommended. Wash hands thoroughly after handling and before smoking or eating. Do not take internally.

KEEP OUT OF REACH OF CHILDREN

GUARANTEE

SILPRO MASONRY SYSTEMS INC., guarantees that their products are made of the finest raw materials under exacting care to produce products of the highest quality and will perform as stated when used in accordance with the manufacturer's printed instructions.

Improper mixing, incorrect application or other factors beyond the control of the manufacturer may produce unsatisfactory results and cannot be held to be the manufacturer's responsibility. SILPRO accepts no responsibility beyond the purchase price of the SILPRO product used.

For further product information on EASY MIX SEAL COTE consult your local dealer or call SILPRO MASONRY SYSTEMS INC., at:1-508-772-4444, 1-800-343-1501, FAX 1-508-772-7456.

Sikaflex® -1a

1/97

One part polyurethane, elastomeric sealant/adhesive

DESCRIPTION

Sikaflex-1a is a premium-grade, high-performance, moisture-cured, 1-component, polyurethane-based, non-sag elastomeric sealant. Meets Federal specification TT-S-00230C, Type II, Class A. Meets ASTM C-920, Type S, Grade NS, Class 25; Canadian Standard 19-GP-16A, Type II.

WHERE TO USE

- Designed for all types of joints where maximum depth of sealant will not exceed ½ in.
- Excellent for small joints and fillets...windows, door frames, reglets, flashing, and many construction adhesive applications.
- Suitable for vertical and horizontal joints; readily placeable at 40 F.
- Has many applications as an elastic adhesive between materials with dissimilar coefficients of expansion.

ADVANTAGES

- Eliminates time, effort, and equipment for mixing, filling cartridges, pre-heating or thawing, and cleaning of equipment.
- High elasticity - cures to a tough, durable, flexible consistency with exceptional cut and tear-resistance.
- Stress relaxation.
- Excellent adhesion - bonds to most construction materials without a primer.
- Excellent resistance to aging, weathering.
- Proven in tough climates around the world.
- USDA-approved.
- Odorless, non-staining.
- Paintable with water-, oil- and rubber-based paints.
- Jet fuel resistant.
- NSF and EPA-approved for potable-water contact. Compatibility tests are recommended.
- Urethane-based; suggested by EPA for radon reduction.
- Capable of ±25% joint movement.

COVERAGE

10.3 fl. oz. cartridge seals 12.4 lineal ft. of ½ x ¼ in. joint.
20 fl. oz. uni-pac sausage seals 24 lineal ft. of ½ x ¼ in. joint.

PACKAGING

Disposable 10.3 fl. oz., moisture-proof composite cartridges, 24/case; and uni-pac sausages, 20 fl. oz., 20/carton.

TYPICAL DATA FOR SIKAFLEX-1A (Material and curing conditions @ 73F and 50% R.H.)		
SHELF LIFE	10.3 fl. oz. cartridges 20 fl. oz. uni-pac sausages	12 months 12 months
STORAGE CONDITIONS	Store at 40-95F (4-35C). **Condition material to 65-75F before using.**	
COLORS	White, colonial white, aluminum gray, limestone, black, dark bronze, capitol tan. Special architectural colors on request.	
APPLICATION TEMPERATURE	40 to 100F. Sealant should be installed when joint is at midrange of its anticipated movement.	
SERVICE RANGE	-40 to 170F	
CURING RATE	Tack-free Time Tack-free to touch Final cure	6 to 8 hours (TT-S-00230C) 3 hours 5 to 8 days
RECOVERY (ASTM C719)		>90%
SHORE A HARDNESS (ASTM D-2240)		
21 day	40±5	
TENSILE PROPERTIES (ASTM D-412)		
21 day	Tensile Stress Elongation at Break Modulus of Elasticity 25% 50% 100%	140 psi (.96 MPa) 700% 40 psi (.275 MPa) 60 psi (.413 MPa) 80 psi (.551 MPa)
LAP-SHEAR STRENGTH (ASTM D-1002), modified, glass substrate 21 day		
21 day	50F 73F 122F	120 psi (.827 MPa) 125 psi (.862 MPa) 125 psi (.862 MPa)

ADHESION IN PEEL (TT-S-00230C)

Substrate	**Peel Strength**	**Adhesion Loss**
Aluminum	25 lb	10%
Glass	20 lb	5%
Concrete	20 lb	0%

WEATHERING RESISTANCE	Excellent
CHEMICAL RESISTANCE	Good resistance to water, diluted acids, and diluted alkalies. Consult Technical Service for specific data.
RADON REDUCTION	Approximately 97% reduction in radon. Independent laboratory evaluation. Actual results available upon request. Consult Technical Service.

HOW TO USE

SURFACE PREPARATION

Clean all surfaces. Joint walls must be sound, clean, dry, frost-free, and free of oil and grease. Curing compound residues and any other foreign matter must be thoroughly removed. Install bond breaker tape or backer rod to prevent bond at base of joint.

PRIMING

Priming is not usually necessary. Most substrates only require priming if testing indicates a need or where sealant will be subjected to water immersion after cure. Consult Sikaflex Primer Technical Data Sheet or Technical Service for additional information on priming.

APPLICATION

Recommended application temperatures: 40-100 F. For cold weather application, condition units at approximately 70 F; remove prior to using.

For best performance, Sikaflex-1a should be gunned into joint when joint slot is at mid-point of its designed expansion and contraction.

Place nozzle of gun into bottom of the joint and fill entire joint. Keep the nozzle in the sealant, continue on with a steady flow of sealant preceding the nozzle to avoid air entrapment.

Avoid overlapping of sealant to eliminate entrapment of air. Tool as required. Joint dimension should allow for 1/4 inch minimum and 1/2 inch maximum thickness for sealant. Proper design is 2:1 width to depth ratio,

For use in horizontal joints in traffic areas, the absolute minimum depth of the sealant is ½ in. and closed cell backer rod is recommended. Tool as necessary, dry or with clean water.

LIMITATIONS

- Allow 1-week cure at standard conditions when using Sikaflex-1a in total water immersion situations and prior to painting.
- When overcoating with water, oil and rubber based paints, compatibility and adhesion testing is essential.
- Avoid exposure to high levels of chlorine. (Maximum continuous level is 3ppm of chlorine.)
- Maximum depth of sealant must not exceed ½ in.; minimum depth is ¼ in.
- Maximum expansion and contraction should not exceed 25% of average joint width.
- Do not cure in the presence of curing silicone sealants.
- Avoid contact with alcohol and other solvent cleaners during cure.
- Do not apply when moisture-vapor-transmission condition exists from the substrate as this can cause bubbling within the sealant.
- Use opened cartridges and uni-pac sausages the same day.
- When applying sealant, avoid air-entrapment.
- Since system is moisture-cured, permit sufficient exposure to air.
- White color tends to yellow slightly when exposed to ultra-violet rays.
- The ultimate performance of Sikaflex-1a depends on good joint design and proper application with joint surfaces properly prepared.
- Minimum depth of sealant in horizontal joints subject to traffic is ½ in.
- Do not tool with detergent or soap solutions.

CAUTION

COMBUSTIBLE

Keep away from open flames and high heat. Contains xylene; avoid breathing vapors. Use with adequate ventilation.

IRRITANT

Avoid skin and eye contact. Use of NIOSH/MSHA approved organic vapor respirator, safety goggles, and chemical-resistant gloves recommended. Remove contaminated clothing and shoes.

FIRST AID

In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with plenty of water for at least 15 minutes; contact physician. Wash clothing before re-use. Discard contaminated shoes.

CLEAN UP

Uncured material can be removed with approved solvent. Cured material can only be removed mechanically. For spillage, collect, absorb, and dispose of in accordance with current, applicable local, state, and federal regulations.

Product Code 431. Sika and Sikaflex are registered trademarks. Made in USA. Printed in USA. January, 1997

KEEP CONTAINER TIGHTLY CLOSED **KEEP OUT OF REACH OF CHILDREN**
NOT FOR INTERNAL CONSUMPTION **FOR INDUSTRIAL USE ONLY**
CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

1-800-933-SIKA NATIONWIDE
Regional Information and Sales Centers
For the location of your nearest Sika sales office, contact your regional center.

Northeast
201 Polito Avenue
Lyndhurst, NJ 07071
Phone: 1-800-933-7452
Fax: 201-933-7326

Midwest
2190 Gladstone Court
Suite A
Glendale Heights, IL 60139
Phone: 630-924-7900
Fax: 630-924-8508

Southern
3778 La Vista Road
Suite 100
Tucker, GA 30084
Phone: 404-315-0337
Fax: 404-315-0117

Western
12767 East Imperial Hwy
Santa Fe Springs, CA 90670
Phone: 562-941-0231
Fax: 562-941-4762

APPENDIX B

SAMPLE LOCATION MAPS

WESTON
MANAGERS DESIGNERS/CONSULTANTS

SHEET 1 of 1

CLIENT/SUBJECT USARC - Fairfield, CT W.O. NO. _____

TASK DESCRIPTION Site Plan / Sampling Locations TASK NO. _____

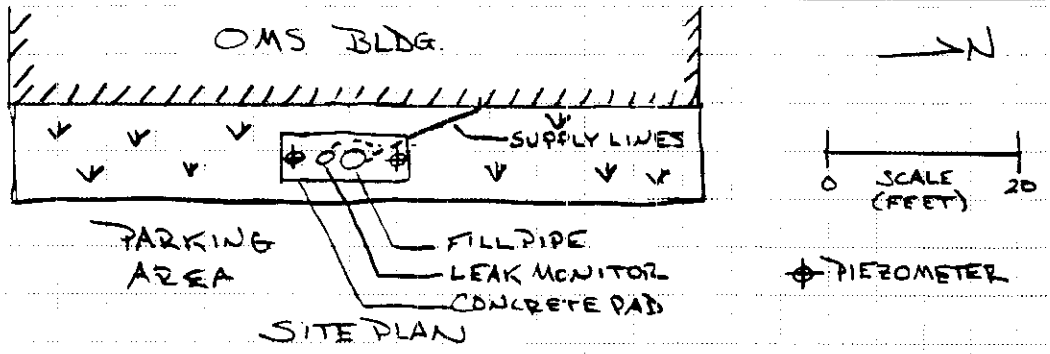
PREPARED BY Jes DEPT _____ DATE 6/12/98

MATH CHECK BY _____ DEPT _____ DATE _____

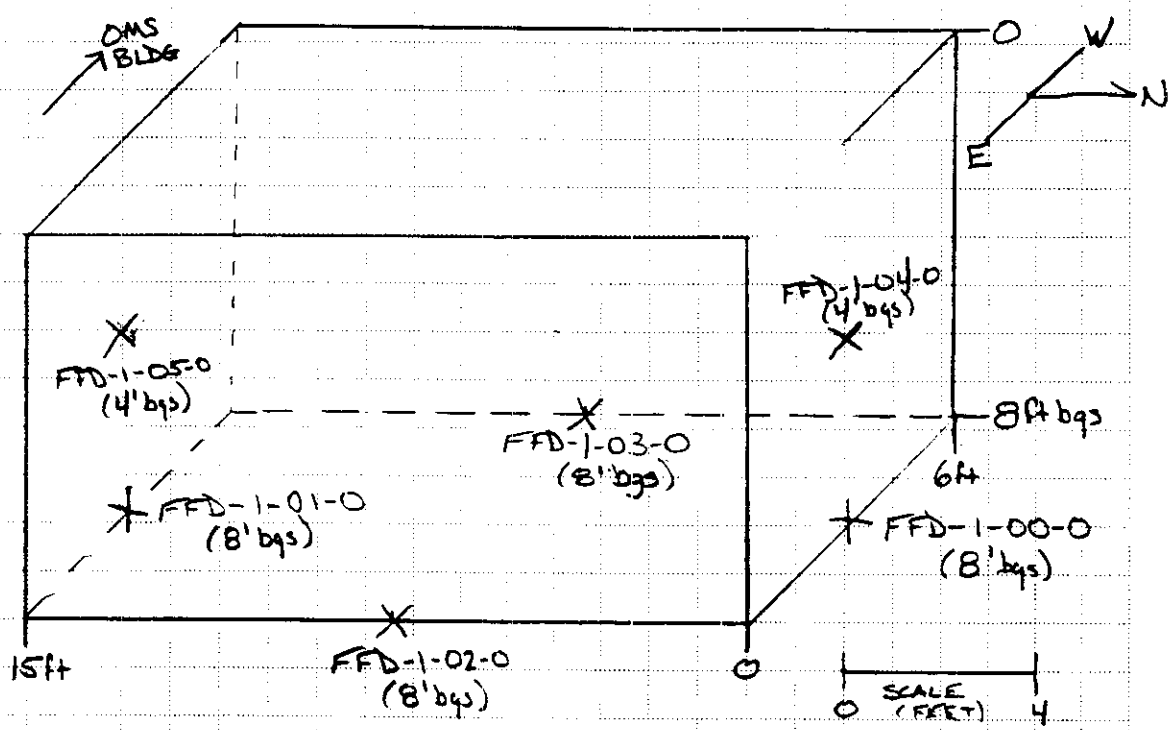
METHOD REV. BY _____ DEPT _____ DATE _____

APPROVED BY

DEPT _____ DATE _____



SITE PLAN



UST GRAVE SAMPLING LOCATIONS

1,000 gal. Fiberglas UST

RFW 10-05-003/A-5/85
512-5643

WESTON MANAGERS DESIGNERS/CONSULTANTS

SHEET 1 of 1

CLIENT/SUBJECT USAEC - Fairfield, CT W.O. NO. _____

TASK DESCRIPTION Sampling Locations - 5,000 gal UST TASK NO. _____

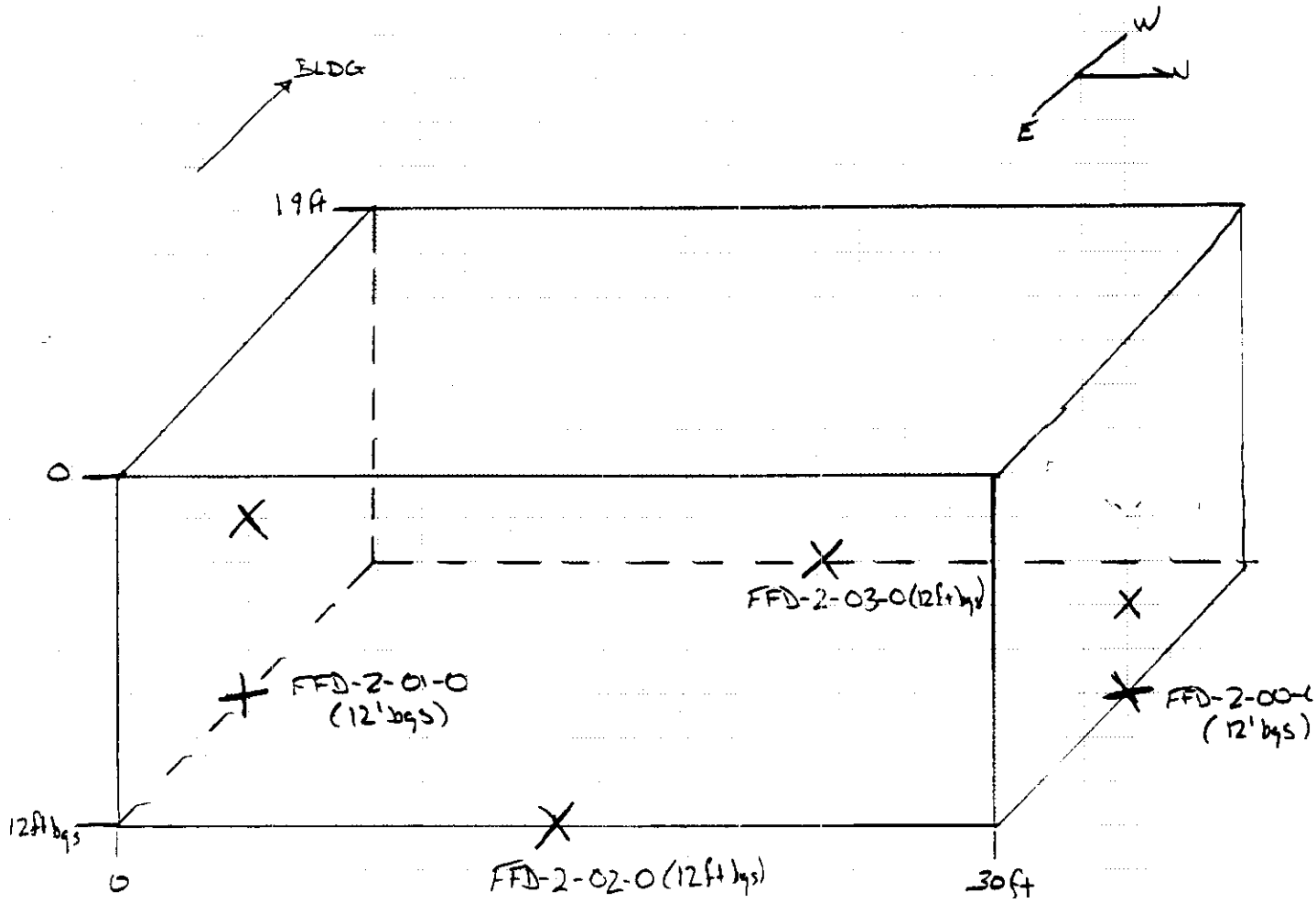
PREPARED BY _____ DEPT _____ DATE 6/12/96

MATH CHECK BY _____ DEPT _____ DATE _____

METHOD REV. BY _____ DEPT _____ DATE _____

APPROVED BY

DEPT _____ DATE _____



UST GRAVE SAMPLE LOCATIONS

5,000 gal STEEL UST

WESTON
MANAGERS
U.S. USERS CONSULTANTS

SHEET 1 of 1

CLIENT/SUBJECT USARC - Fairfield, CT W.O. NO.

TASK DESCRIPTION Sampling Locations TASK NO.

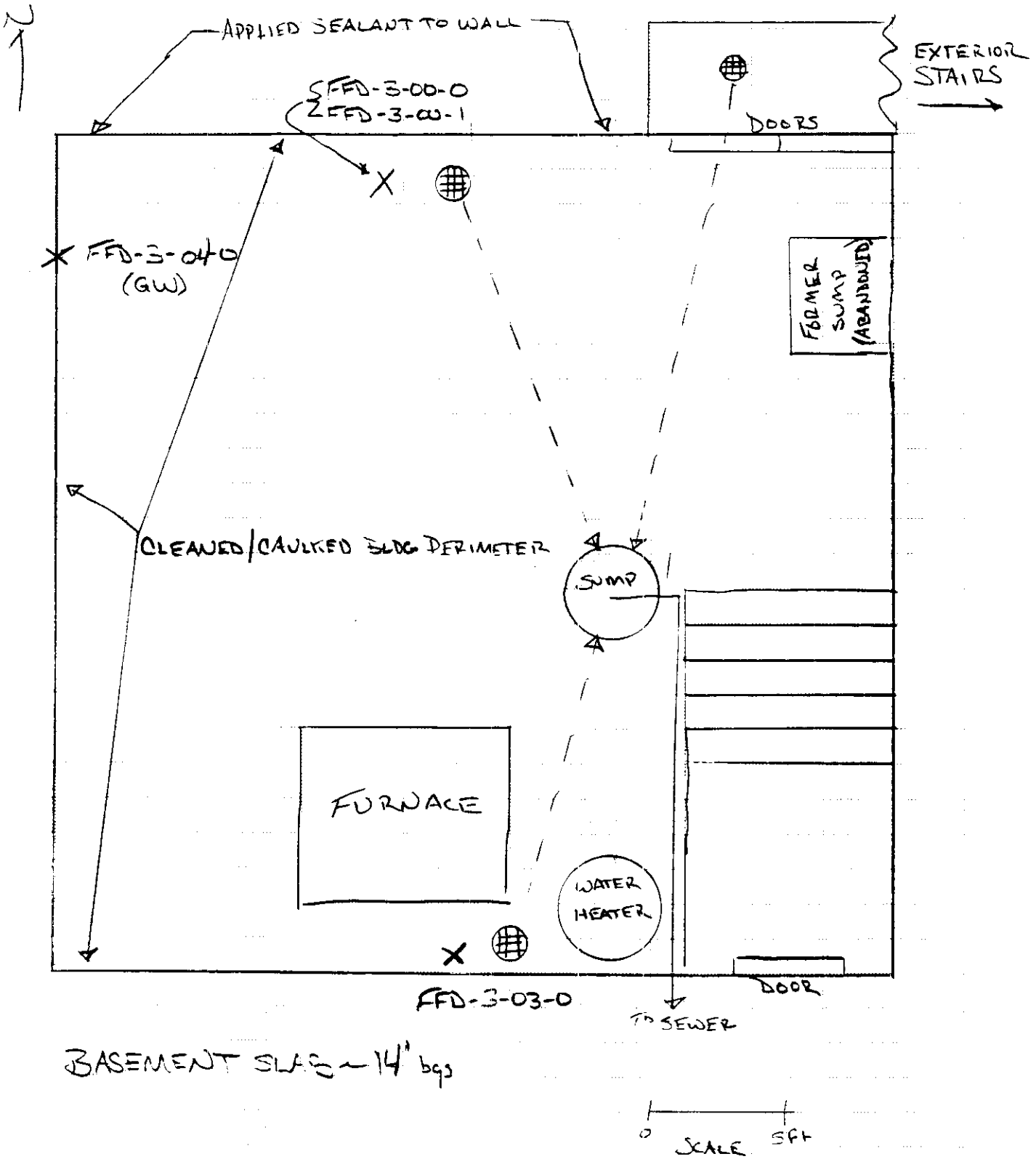
PREPARED BY YCS DEPT DATE 8/4/98

MATH CHECK BY DEPT DATE

METHOD REV. BY DEPT DATE

APPROVED BY

DEPT DATE



RFW 10-05-003/A-5/85
512-5643

APPENDIX C

ANALYTICAL/FIELD SCREENING RESULTS

ANALYTICAL DATA
UST REMOVAL
U.S. ARMY RESERVE CENTER
FAIRFIELD, CONNECTICUT

		Sample ID	WHT-1-00-0	FFD-1-00-0	FFD-1-01-0	FFD-1-02-0	FFD-1-03-0	FFD-1-04-0	FFD-1-05-0
		Date Collected	5/5/98	5/12/98	5/12/98	5/12/98	5/12/98	5/12/98	5/12/98
		Lab ID	4877	5452	5453	5454	5455	5456	5457
Contaminant	Remediation Goal[1]	Units	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration
Oil & Grease (TPH)	2,500	mg/kg	88	ND	ND	ND	ND	ND	ND
Toluene	1,000,000	µg/kg	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1,000,000	µg/kg	ND	ND	ND	ND	ND	ND	ND
p/m-Xylene	1,000,000	µg/kg	ND	ND	ND	ND	ND	ND	ND
o-Xylene	1,000,000	µg/kg	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene		µg/kg	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene		µg/kg	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethlybenzene		µg/kg	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene		µg/kg	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethlybenzene		µg/kg	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene		µg/kg	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene		µg/kg	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene		µg/kg	ND	ND	ND	ND	ND	ND	ND
Napthalene	2,500,000	µg/kg	ND	ND	ND	ND	ND	ND	ND
Acenapthylene	2,500,000	µg/kg	ND	ND	ND	ND	ND	ND	ND
Anthracene	2,500,000	µg/kg	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	7,800	µg/kg	ND	ND	ND	ND	ND	ND	ND
Chrysene		µg/kg	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	2,500,000	µg/kg	ND	ND	ND	ND	ND	ND	ND
Fluorene	2,500,000	µg/kg	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	2,500,000	µg/kg	ND	ND	ND	ND	ND	ND	ND
Pyrene	2,500,000	µg/kg	ND	ND	ND	ND	ND	ND	ND

1: Remediation Standard Regulation Criteria for Industrial/Commercial Properties (where listed)

ANALYTICAL DATA
UST REMOVAL
U.S. ARMY RESERVE CENTER
FAIRFIELD, CINNECTICUT

		Sample ID	FFD-2-00-0	FFD-2-01-0	FFD-2-02-0	FFD-2-03-0	FFD-2-04-0	FFD-2-05-0	FFD-2-06-0
		Date Collected	5/13/98	5/13/98	5/13/98	5/13/98	5/13/98	5/13/98	5/18/98
		Lab ID	5549	5550	5551	5552	5553	5554	5679
Contaminant	Remediation Goal[1]	Units	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration
Oil & Grease (TPH)	2,500	mg/kg	ND	272	ND	ND	ND	ND	ND
Toluene	1,000,000	µg/kg	ND	18	ND	ND	ND	ND	ND
Ethylbenzene	1,000,000	µg/kg	ND	11	ND	ND	ND	ND	ND
p/m-Xylene	1,000,000	µg/kg	12	28	ND	ND	ND	ND	ND
o-Xylene	1,000,000	µg/kg	ND	20	ND	ND	ND	ND	ND
Isopropylbenzene		µg/kg	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene		µg/kg	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethlybenzene		µg/kg	30	54	ND	ND	ND	ND	ND
tert-Butylbenzene		µg/kg	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethlybenzene		µg/kg	14	55	ND	ND	ND	ND	ND
sec-Butylbenzene		µg/kg	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene		µg/kg	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene		µg/kg	ND	ND	ND	ND	ND	ND	ND
Napthalene	2,500,000	µg/kg	27	51	ND	ND	ND	ND	ND
Acenapthylene	2,500,000	µg/kg	ND	ND	ND	ND	ND	ND	ND
Anthracene	2,500,000	µg/kg	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	7,800	µg/kg	ND	ND	ND	ND	ND	ND	ND
Chrysene		µg/kg	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	2,500,000	µg/kg	189	ND	ND	ND	ND	ND	ND
Fluorene	2,500,000	µg/kg	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	2,500,000	µg/kg	ND	ND	ND	ND	ND	ND	ND
Pyrene	2,500,000	µg/kg	126	ND	ND	ND	ND	ND	ND

1: Remediation Standard Regulation Criteria for Industrial/Commercial Properties (where listed)

ANALYTICAL DATA
UST REMOVAL
U.S. ARMY RESERVE CENTER
FAIRFIELD, CONNECTICUT

			FFD-3-00-0	FFD-3-00-1	FFD-3-04-0	FFD-3-03-0	FFD-4-00-0
			5/26/98	5/26/98	6/9/98	6/9/98	5/18/98
			6060	6061	6882	6883	5680
Contaminant	Remediation Goal[1]	Units	Concentration	Concentration	Concentration	Concentration	Concentration
Oil & Grease (TPH)	2,500	mg/kg	2605	4034	ND	256	ND
Toluene	1,000,000	µg/kg	ND	ND	ND	ND	ND
Ethylbenzene	1,000,000	µg/kg	74	74	ND	ND	ND
p/m-Xylene	1,000,000	µg/kg	ND	ND	ND	ND	ND
o-Xylene	1,000,000	µg/kg	ND	ND	ND	ND	ND
Isopropylbenzene		µg/kg	101	115	ND	ND	ND
n-Propylbenzene		µg/kg	196	206	ND	ND	ND
1,3,5-Trimethlybenzene		µg/kg	45	31	ND	35	ND
tert-Butylbenzene		µg/kg	25	27	ND	ND	ND
1,2,4-Trimethlybenzene		µg/kg	22	14	ND	ND	ND
sec-Butylbenzene		µg/kg	154	187	ND	ND	ND
p-Isopropyltoluene		µg/kg	11	ND	ND	ND	ND
n-Butylbenzene		µg/kg	103	143	ND	ND	ND
Napthalene	2,500,000	µg/kg	1339	1142	ND	405	ND
Acenaphthene	2,500,000	µg/kg	339	520	ND	ND	ND
Anthracene	2,500,000	µg/kg	169	279	ND	ND	ND
Benzo(a)anthracene	7,800	µg/kg	ND	111	ND	ND	ND
Chrysene		µg/kg	ND	132	ND	ND	ND
Fluoranthene	2,500,000	µg/kg	156	251	ND	ND	ND
Fluorene	2,500,000	µg/kg	538	862	ND	ND	ND
Phenanthrene	2,500,000	µg/kg	1591	3076	ND	150	ND
Pyrene	2,500,000	µg/kg	217	395	ND	ND	ND

1: Remediation Standard Regulation Criteria for Industrial/Commercial Properties (where listed)

WESTON MANAGERS DESIGNERS CONSULTANTS

SHEET 1 of 1

CLIENT/SUBJECT USARCs - Field Instrument Reading W.O. NO. _____

TASK DESCRIPTION Headspace - 5,000 gal UST TASK NO. _____

PREPARED BY JES DEPT _____ DATE 9/22/98

MATH CHECK BY _____ DEPT _____ DATE _____

METHOD REV. BY _____ DEPT _____ DATE _____

APPROVED BY

DEPT _____ DATE _____

DATE	TIME	OVM READING (units)	DESCRIPTION
13 MAY 98	1000	BKG = 0.0	establish site background
	1005	0.0	soil around fill pipe
	1110	0.0	E. side tank 0-3' (5cy total)
	1115	0.0	E. side fill pipe (7cy)
	1120	0.0	E. side 3-5' (15cy)
	1125	0.0	W. side fill pipe (3') (20cy)
	1130	0.0	Tank Top 6' (25cy)
	1140	0.0	S. side 7' (35cy)
	1145	0.0	E. side (clay@6-8') (40cy)
	1150	0.8	E. side 12' (50cy)
	1155	0.0	N. side 5-7' (70cy)
	1545	20.0	Soil below supply line coupling
14 MAY 98 (bldg investigation)	0840	BKG = 0.0	establish site background
	0840	0.0	Sump outlet (1' bgs)
	0840	0.0	Sump outlet (2' bgs)
	1135	0.0	Material over supply lines (5cy total)
	1140	0.0	dk material under lines (10cy)
	1142	0.0	dk material under lines
	1145	0.0	vent pipe cover material (15cy)
	1155	2.5	Soil below feed/return couplings
	1210	0.0	Material between feed, vent
	1215	0.0	Material below bad pipe joint
	1340	0.0	W. side of window box 6'
	1343	0.0	W. side of window box 8'
	approx. 1400	0.0	Sat. soil from perched water
	approx. 1400	25-50	Bottom of clay layer @ bldg 14-15'

headspace readings

WESTON MANAGERS DESIGNERS/CONSULTANTS

SHEET 1 of 1

CLIENT/SUBJECT USARCs - Field Instrument Readings W.O. NO. _____

TASK DESCRIPTION Headspace - Soil Samples TASK NO. _____

PREPARED BY JCES DEPT _____ DATE 9/22/98

MATH CHECK BY _____ DEPT _____ DATE _____

METHOD REV. BY _____ DEPT _____ DATE _____

APPROVED BY _____ DEPT _____ DATE _____

DATE	TIME	SAMPLE ID	OVM READING (units) BKG = 0.0
12 MAY 98	1515	FFD-1-00-0	0.0
		FFD-1-01-0	0.0
		FFD-1-02-0	0.0
		FFD-1-03-0	0.0
		FFD-1-04-0	0.0
		FFD-1-05-0	0.0
13 MAY 98	1225	FFD-2-00-0	7.0
		FFD-2-01-0	97
		FFD-2-02-0	0.0
		FFD-2-03-0	1.0
		FFD-2-04-0	10
		FFD-2-05-0	0.0
15 MAY 98	0840	FFD-4-00-0	0.0
↓	1155	FFD-2-06-0	2.5
26 MAY 98	1300	FFD-3-00-0/1	85
9 JUN 98	1050	FFD-3-03-0	28
↓	1120	FFD-3-04-0	0.0

Date Samples Received : 5-12-98

Client Name: **Roy F. Weston**	CTL Lab. No. 598169
Report Date: 5-18-98	Work Order No. 03886-118-012
	Sub Contract Agreement # 92078L

RESULTS OF ANALYSIS

EPA 418.1

Matrix Type: S

Field ID	CTL No.	Oil & Grease (TPH)-ppm			
FFD-1-00-0	5452	ND<25			
FFD-1-01-0	5453	ND<25			
FFD-1-02-0	5454	ND<25			
FFD-1-03-0	5455	ND<25			
FFD-1-04-0	5456	ND<25			
FFD-1-05-0	5457	ND<25			

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client : Roy F. Weston, Inc.	Date Extracted: 5-14-98
Lab No. : 598169	Date Analyzed : 5-14-98
PO No. : 92078L	
Rep. Date : 5/18/98	Analyst : YK

EPA METHOD 8260B GC/MS

Date Samples Rec'd: 5-12-98

Matrix Type :		**S**	**S**	**S**	**S**
CTL Sample No.		**5452**	**5453**	**5454**	**5455**
Field ID		**FFD-1 00-0**	**FFD-1 01-0**	**FFD-1 02-0**	**FFD-1 03-0**
	MDL				
Dichlorodifluoromethane	10	BDL	BDL	BDL	BDL
Chloromethane	10	BDL	BDL	BDL	BDL
Vinyl chloride	10	BDL	BDL	BDL	BDL
Chloroethane	10	BDL	BDL	BDL	BDL
Bromomethane	10	BDL	BDL	BDL	BDL
Trichlorofluoromethane	10	BDL	BDL	BDL	BDL
1,1-Dichloroethylene	10	BDL	BDL	BDL	BDL
Methylene chloride	10	BDL	BDL	BDL	BDL
trans-1,2-Dichloroethylene	10	BDL	BDL	BDL	BDL
1,1-Dichloroethane	10	BDL	BDL	BDL	BDL
2,2-Dichloropropane	10	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethylene	10	BDL	BDL	BDL	BDL
Chloroform	10	BDL	BDL	BDL	BDL
Bromochloromethane	10	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	10	BDL	BDL	BDL	BDL
1,1-Dichloropropylene	10	BDL	BDL	BDL	BDL
Carbon tetrachloride	10	BDL	BDL	BDL	BDL
Benzene	10	BDL	BDL	BDL	BDL
1,2-Dichloroethane	10	BDL	BDL	BDL	BDL
Trichloroethylene	10	BDL	BDL	BDL	BDL
1,2-Dichloropropane	10	BDL	BDL	BDL	BDL
Bromodichloromethane	10	BDL	BDL	BDL	BDL
Dibromomethane	10	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropylene	10	BDL	BDL	BDL	BDL
Toluene	10	BDL	BDL	BDL	BDL
t-1,3-Dichloropropylene	10	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	10	BDL	BDL	BDL	BDL
Tetrachloroethylene	10	BDL	BDL	BDL	BDL
1,3-Dichloropropane	10	BDL	BDL	BDL	BDL
Dibromochloromethane	10	BDL	BDL	BDL	BDL
1,2-Dibromoethane (EDB)	10	BDL	BDL	BDL	BDL
Chlorobenzene	10	BDL	BDL	BDL	BDL
Ethylbenzene	10	BDL	BDL	BDL	BDL
1,1,1,2-Tetrachloroethane	10	BDL	BDL	BDL	BDL
p/m-Xylene	10	BDL	BDL	BDL	BDL
o-Xylene	10	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS** = PPB

Matrix Type : W = Water/Aqueous S = Soil/Solid O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: Roy F. Weston, Inc.	Date Extracted:	5-14-98
Lab No.	: 598169	Date Analyzed :	5-14-98
PO No.	: 92078L		
Rep. Date	: 5/18/98	Analyst :	YK

EPA METHOD 8260B GC/MS **Date Samples Rec'd: 5-12-98**

Matrix Type :		**S**	**S**	**S**	**S**
CTL Sample No.		**5452**	**5453**	**5454**	**5455**
Field ID		**FFD-1 00-0**	**FFD-1 01-0**	**FFD-1 02-0**	**FFD-1 03-0**
	MDL				
Styrene	10	BDL	BDL	BDL	BDL
Bromoform	10	BDL	BDL	BDL	BDL
Isopropylbenzene	10	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	10	BDL	BDL	BDL	BDL
Bromobenzene	10	BDL	BDL	BDL	BDL
1,2,3-Trichloropropane	10	BDL	BDL	BDL	BDL
n-Propylbenzene	10	BDL	BDL	BDL	BDL
2-Chlorotoluene	10	BDL	BDL	BDL	BDL
1,3,5-Trimethylbenzene	10	BDL	BDL	BDL	BDL
4-Chlorotoluene	10	BDL	BDL	BDL	BDL
tert-Butylbenzene	10	BDL	BDL	BDL	BDL
1,2,4-Trimethylbenzene	10	BDL	BDL	BDL	BDL
sec-Butylbenzene	10	BDL	BDL	BDL	BDL
p-Isopropyltoluene	10	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	10	BDL	BDL	BDL	BDL
1,2,3-Trimethylbenzene	10	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	10	BDL	BDL	BDL	BDL
n-Butylbenzene	10	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	10	BDL	BDL	BDL	BDL
1,2Dibromo-3-chloropropane	10	BDL	BDL	BDL	BDL
1,2,4-Trichlorobenzene	10	BDL	BDL	BDL	BDL
Hexachlorobutadiene	10	BDL	BDL	BDL	BDL
Naphthalene	10	BDL	BDL	BDL	BDL
1,2,3-Trichlorobenzene	10	BDL	BDL	BDL	BDL
Dibromofluoromethane (SR)	---	112	116	121	104
Toluene-d8 (SR)	---	106	109	109	94

SR = Surrogate Recovery Percent

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS** = PPB

Matrix Type : W = Water/Aqueous S = Soil/Solid O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: Roy F. Weston, Inc.	Date Extracted:	5-14-98
Lab No.	: 598169	Date Analyzed :	5-14-98
PO No.	: 92078L		
Rep. Date	: 5/18/98	Analyst :	YK

EPA METHOD 8260B GC/MS

Date Samples Rec'd: 5-12-98

Matrix Type :		**S**	**S**		
CTL Sample No.		**5456**	**5457**		
Field ID		**FFD-1-04-0**	**FFD-1 05-0**		
	MDL				
Dichlorodifluoromethane	10	BDL	BDL		
Chloromethane	10	BDL	BDL		
Vinyl chloride	10	BDL	BDL		
Chloroethane	10	BDL	BDL		
Bromomethane	10	BDL	BDL		
Trichlorofluoromethane	10	BDL	BDL		
1,1-Dichloroethylene	10	BDL	BDL		
Methylene chloride	10	BDL	BDL		
trans-1,2-Dichloroethylene	10	BDL	BDL		
1,1-Dichloroethane	10	BDL	BDL		
2,2-Dichloropropane	10	BDL	BDL		
cis-1,2-Dichloroethylene	10	BDL	BDL		
Chloroform	10	BDL	BDL		
Bromochloromethane	10	BDL	BDL		
1,1,1-Trichloroethane	10	BDL	BDL		
1,1-Dichloropropylene	10	BDL	BDL		
Carbon tetrachloride	10	BDL	BDL		
Benzene	10	BDL	BDL		
1,2-Dichloroethane	10	BDL	BDL		
Trichloroethylene	10	BDL	BDL		
1,2-Dichloropropane	10	BDL	BDL		
Bromodichloromethane	10	BDL	BDL		
Dibromomethane	10	BDL	BDL		
cis-1,3-Dichloropropylene	10	BDL	BDL		
Toluene	10	BDL	BDL		
t-1,3-Dichloropropylene	10	BDL	BDL		
1,1,2-Trichloroethane	10	BDL	BDL		
Tetrachloroethylene	10	BDL	BDL		
1,3-Dichloropropane	10	BDL	BDL		
Dibromochloromethane	10	BDL	BDL		
1,2-Dibromoethane (EDB)	10	BDL	BDL		
Chlorobenzene	10	BDL	BDL		
Ethylbenzene	10	BDL	BDL		
1,1,1,2-Tetrachloroethane	10	BDL	BDL		
p/m-Xylene	10	BDL	BDL		
o-Xylene	10	BDL	BDL		

MDL= Minimum Detectable Level/**BDL**= Below Detection Level/**UNITS**= PPB

Matrix Type : W= Water/Aqueous **S**= Soil/Solid **O**=Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client : Roy F. Weston, Inc.	Date Extracted: 5-14-98
Lab No. : 598169	Date Analyzed : 5-14-98
PO No. : 92078L	
Rep. Date : 5/18/98	Analyst : YK

EPA METHOD 8260B GC/MS **Date Samples Rec'd: 5-12-98**

	MDL				
Matrix Type :		**S**	**S**		
CTL Sample No.		**5456**	**5457**		
Field ID		**FFD-1-04-0**	**FFD-1 05-0**		
Styrene	10	BDL	BDL		
Bromoform	10	BDL	BDL		
Isopropylbenzene	10	BDL	BDL		
1,1,2,2-Tetrachloroethane	10	BDL	BDL		
Bromobenzene	10	BDL	BDL		
1,2,3-Trichloropropane	10	BDL	BDL		
n-Propylbenzene	10	BDL	BDL		
2-Chlorotoluene	10	BDL	BDL		
1,3,5-Trimethylbenzene	10	BDL	BDL		
4-Chlorotoluene	10	BDL	BDL		
tert-Butylbenzene	10	BDL	BDL		
1,2,4-Trimethylbenzene	10	BDL	BDL		
sec-Butylbenzene	10	BDL	BDL		
p-Isopropyltoluene	10	BDL	BDL		
1,3-Dichlorobenzene	10	BDL	BDL		
1,2,3-Trimethylbenzene	10	BDL	BDL		
1,4-Dichlorobenzene	10	BDL	BDL		
n-Butylbenzene	10	BDL	BDL		
1,2-Dichlorobenzene	10	BDL	BDL		
1,2Dibromo-3-chloropropane	10	BDL	BDL		
1,2,4-Trichlorobenzene	10	BDL	BDL		
Hexachlorobutadiene	10	BDL	BDL		
Naphthalene	10	BDL	BDL		
1,2,3-Trichlorobenzene	10	BDL	BDL		
Dibromofluoromethane (SR)	---	111	118		
Toluene-d8 (SR)	---	101	108		

SR = Surrogate Recovery Percent

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS** = PPB

Matrix Type : W = Water/Aqueous S = Soil/Solid O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: Roy F. Weston, Inc.	Date Extracted:	5/14/98
Lab No.	: 598169	Date Analyzed :	5/14/98
PO No.	: 92078L		
Rep. Date	: 5/18/98	Analyst :	YK

EPA METHOD 8270C Modified **Date Samples Rec'd:** 5-12-98

Matrix Type :		**S**	**S**	**S**	**S**
CTL Sample No.		**5452**	**5453**	**5454**	**5455**
Field ID		**FFD-1 00-0**	**FFD-1 01-0**	**FFD-1 02-0**	**FFD-1 03-0**
	MDL				
Acenaphthene	100	BDL	BDL	BDL	BDL
Acenaphthylene	100	BDL	BDL	BDL	BDL
Anthracene	100	BDL	BDL	BDL	BDL
Benzidine	100	BDL	BDL	BDL	BDL
Benzo(a)anthracene	100	BDL	BDL	BDL	BDL
Benzo(a)pyrene	100	BDL	BDL	BDL	BDL
3,4-Benzofluoranthene	100	BDL	BDL	BDL	BDL
Benzo(ghi)perylene	500	BDL	BDL	BDL	BDL
Benzo(k)fluoranthene	100	BDL	BDL	BDL	BDL
Bis(2-chloroethoxy)methane	100	BDL	BDL	BDL	BDL
Bis(2-Chloroethyl)Ether	100	BDL	BDL	BDL	BDL
Bis(2chloroisopropyl)ether	100	BDL	BDL	BDL	BDL
Bis(2-ethylhexyl)phthalate	100	BDL	BDL	BDL	BDL
4-Bromophenylphenyl ether	100	BDL	BDL	BDL	BDL
Butylbenzyl phthalate	100	BDL	BDL	BDL	BDL
2-Chloronaphthalene	100	BDL	BDL	BDL	BDL
4-Chlorophenyl phenylether	100	BDL	BDL	BDL	BDL
Chrysene	100	BDL	BDL	BDL	BDL
Dibenzo(a,H)anthracene	500	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	100	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	100	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	100	BDL	BDL	BDL	BDL
3,3-Dichlorobenzidine	100	BDL	BDL	BDL	BDL
Diethyl phthalate	100	BDL	BDL	BDL	BDL
Dimethyl phthalate	100	BDL	BDL	BDL	BDL
Di-n-butyl phthalate	100	BDL	BDL	BDL	BDL
2,4-Dinitrotoluene	100	BDL	BDL	BDL	BDL
2,6-Dinitrotoluene	100	BDL	BDL	BDL	BDL
Di-n-octyl phthalate	100	BDL	BDL	BDL	BDL
1,2-Diphenylhydrazine	100	BDL	BDL	BDL	BDL
Fluoranthene	100	BDL	BDL	BDL	BDL
Fluorene	100	BDL	BDL	BDL	BDL
Hexachlorobenzene	100	BDL	BDL	BDL	BDL
Hexachlorobutadiene	100	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS** = PPB

Matrix Type: **W** = Water/Aqueous **S** = Soil/Solid **O** = Oil/Hydrocarbons

Client	: Roy F. Weston, Inc.	Date Extracted:	5/14/98
Lab No.	: 598169	Date Analyzed :	5/14/98
PO No.	: 92078L		
Rep. Date	: 5/18/98	Analyst :	YK

EPA METHOD 8270C Modified **Date Samples Rec'd:** 5-12-98

Matrix Type :		**S**	**S**	**S**	**S**
CTL Sample No.		**5452**	**5453**	**5454**	**5455**
Field ID		**FFD-1 00-0**	**FFD-1 01-0**	**FFD-1 02-0**	**FFD-1 03-0**
	MDL				
Hexachlorocyclopentadiene	100	BDL	BDL	BDL	BDL
Hexachloroethane	100	BDL	BDL	BDL	BDL
Indeno(1,2,3-cd)pyrene	500	BDL	BDL	BDL	BDL
Isophorone	100	BDL	BDL	BDL	BDL
Naphthalene	100	BDL	BDL	BDL	BDL
Nitrobenzene	100	BDL	BDL	BDL	BDL
N-Nitrosodimethylamine	100	BDL	BDL	BDL	BDL
N-Nitrosodi-n-propylamine	100	BDL	BDL	BDL	BDL
N-Nitrosodiphenylamine	100	BDL	BDL	BDL	BDL
Phenanthrene	100	BDL	BDL	BDL	BDL
Pyrene	100	BDL	BDL	BDL	BDL
1,2,4-Trichlorobenzene	100	BDL	BDL	BDL	BDL
2-Chlorophenol	500	BDL	BDL	BDL	BDL
2,4-Dichlorophenol	500	BDL	BDL	BDL	BDL
2,4-Dimethylphenol	500	BDL	BDL	BDL	BDL
2-Methyl-46-dinitrophenol	500	BDL	BDL	BDL	BDL
2,4-Dinitrophenol	500	BDL	BDL	BDL	BDL
2-Nitrophenol	500	BDL	BDL	BDL	BDL
4-Nitrophenol	500	BDL	BDL	BDL	BDL
4-Chloro-3-methylphenol	500	BDL	BDL	BDL	BDL
Pentachlorophenol	500	BDL	BDL	BDL	BDL
Phenol	500	BDL	BDL	BDL	BDL
2,4,6-Trichlorophenol	500	BDL	BDL	BDL	BDL
Acenaphthene-d10 (SR)	---	120	99	83	92
Phenanthrene-d10 (SR)	---	112	95	77	87

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS** = PPB

Matrix Type: **W** = Water/Aqueous **S** = Soil/Solid **O** = Oil/Hydrocarbons

SR = Surrogate Recovery Percent

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: Roy F. Weston, Inc.	Date Extracted:	5/14/98
Lab No.	: 598169	Date Analyzed :	5/14/98
PO No.	: 92078L		
Rep. Date	: 5/18/98	Analyst :	YK

EPA METHOD 8270C Modified **Date Samples Rec'd:** 5-12-98

Matrix Type :		**S**	**S**		
CTL Sample No.		**5456**	**5457**		
Field ID		**FFD-1-04-0**	**FFD-1 05-0**		
	MDL				
Acenaphthene	100	BDL	BDL		
Acenaphthylene	100	BDL	BDL		
Anthracene	100	BDL	BDL		
Benzidine	100	BDL	BDL		
Benzo(a)anthracene	100	BDL	BDL		
Benzo(a)pyrene	100	BDL	BDL		
3,4-Benzofluoranthene	100	BDL	BDL		
Benzo(ghi)perylene	500	BDL	BDL		
Benzo(k)fluoranthene	100	BDL	BDL		
Bis(2-chloroethoxy)methane	100	BDL	BDL		
Bis(2-Chloroethyl)Ether	100	BDL	BDL		
Bis(2chloroisopropyl)ether	100	BDL	BDL		
Bis(2-ethylhexyl)phthalate	100	BDL	BDL		
4-Bromophenylphenyl ether	100	BDL	BDL		
Butylbenzyl phthalate	100	BDL	BDL		
2-Chloronaphthalene	100	BDL	BDL		
4-Chlorophenyl phenylether	100	BDL	BDL		
Chrysene	100	BDL	BDL		
Dibenzo(a,H)anthracene	500	BDL	BDL		
1,2-Dichlorobenzene	100	BDL	BDL		
1,3-Dichlorobenzene	100	BDL	BDL		
1,4-Dichlorobenzene	100	BDL	BDL		
3,3-Dichlorobenzidine	100	BDL	BDL		
Diethyl phthalate	100	BDL	BDL		
Dimethyl phthalate	100	BDL	BDL		
Di-n-butyl phthalate	100	BDL	BDL		
2,4-Dinitrotoluene	100	BDL	BDL		
2,6-Dinitrotoluene	100	BDL	BDL		
Di-n-octyl phthalate	100	BDL	BDL		
1,2-Diphenylhydrazine	100	BDL	BDL		
Fluoranthene	100	BDL	BDL		
Fluorene	100	BDL	BDL		
Hexachlorobenzene	100	BDL	BDL		
Hexachlorobutadiene	100	BDL	BDL		

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS** = PPB

Matrix Type: **W** = Water/Aqueous **S** = Soil/Solid **O** = Oil/Hydrocarbons

Client	: Roy F. Weston, Inc.	Date Extracted:	5/14/98
Lab No.	: 598169	Date Analyzed :	5/14/98
PO No.	: 92078L		
Rep. Date	: 5/18/98	Analyst :	YK

EPA METHOD 8270C Modified **Date Samples Rec'd:** 5-12-98

Matrix Type :		**S**	**S**		
CTL Sample No.		**5456**	**5457**		
Field ID		**FFD-1-04-0**	**FFD-1 05-0**		
	MDL				
Hexachlorocyclopentadiene	100	BDL	BDL		
Hexachloroethane	100	BDL	BDL		
Indeno(1,2,3-cd)pyrene	500	BDL	BDL		
Isophorone	100	BDL	BDL		
Naphthalene	100	BDL	BDL		
Nitrobenzene	100	BDL	BDL		
N-Nitrosodimethylamine	100	BDL	BDL		
N-Nitrosodi-n-propylamine	100	BDL	BDL		
N-Nitrosodiphenylamine	100	BDL	BDL		
Phenanthrene	100	BDL	BDL		
Pyrene	100	BDL	BDL		
1,2,4-Trichlorobenzene	100	BDL	BDL		
2-Chlorophenol	500	BDL	BDL		
2,4-Dichlorophenol	500	BDL	BDL		
2,4-Dimethylphenol	500	BDL	BDL		
2-Methyl-46-dinitrophenol	500	BDL	BDL		
2,4-Dinitrophenol	500	BDL	BDL		
2-Nitrophenol	500	BDL	BDL		
4-Nitrophenol	500	BDL	BDL		
4-Chloro-3-methylphenol	500	BDL	BDL		
Pentachlorophenol	500	BDL	BDL		
Phenol	500	BDL	BDL		
2,4,6-Trichlorophenol	500	BDL	BDL		
Acenaphthene-d10 (SR)	---	94	103		
Phenanthrene-d10 (SR)	---	85	96		

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS** = PPB

Matrix Type: W = Water/Aqueous **S** = Soil/Solid **O** = Oil/Hydrocarbons

SR = Surrogate Recovery Percent

Date Samples Received : 5-12-98

Client Name: **Roy F. Weston, Inc.**	CTL Lab. No. 598169
PO/Job No. RW1197	Work Order No. 03886-118-012
Report Date: 5-18-98	Agreement No. 92078L

QUALITY CONTROL DATA

	LSB Conc.	LSB Result	Method Blank	EPA Method No.
Oil & Grease (TPH)-ppm	1,450	1,603	ND<25	418.1

LSB = Laboratory Spiked Blank

Client	: **Roy F. Weston, Inc.**		
Lab No.	: 598169	Date Analyzed	: 5-14-98
PO No.	: 92078L	Analyst	: YK
Rep. Date	: 5-18-98		

QUALITY CONTROL DATA

EPA METHOD 8260B GC/MS

Date Samples Rec'd: 5-12-98

	MDL	LSB Conc.	LSB TV	Method Blank	
Dichlorodifluoromethane	1			BDL	
Chloromethane	1			BDL	
Vinyl chloride	1			BDL	
Chloroethane	1			BDL	
Bromomethane	1			BDL	
Trichlorofluoromethane	1			BDL	
1,1-Dichloroethylene	1	20.0	23.0	BDL	
Methylene chloride	1			BDL	
trans-1,2-Dichloroethylene	1	20.0	24.0	BDL	
1,1-Dichloroethane	1	20.0	22.0	BDL	
2,2-Dichloropropane	1			BDL	
cis-1,2-Dichloroethylene	1	20.0	21.0	BDL	
Chloroform	1	20.0	24.0	BDL	
Bromochloromethane	1			BDL	
1,1,1-Trichloroethane	1	20.0	25.0	BDL	
1,1-Dichloropropylene	1			BDL	
Carbon tetrachloride	1	20.0	23.0	BDL	
Benzene	1	20.0	23.0	BDL	
1,2-Dichloroethane	1	20.0	20.0	BDL	
Trichloroethylene	1	20.0	24.0	BDL	
1,2-Dichloropropane	1			BDL	
Bromodichloromethane	1	20.0	22.0	BDL	
Dibromomethane	1			BDL	
cis-1,3-Dichloropropylene	1			BDL	
Toluene	1	20.0	22.0	BDL	
t-1,3-Dichloropropylene	1			BDL	
1,1,2-Trichloroethane	1			BDL	
Tetrachloroethylene	1	20.0	23.0	BDL	
1,3-Dichloropropane	1			BDL	
Dibromochloromethane	1			BDL	
1,2-Dibromoethane (EDB)	1			BDL	
Chlorobenzene	1	20.0	24.0	BDL	
Ethylbenzene	1	20.0	26.0	BDL	
1,1,1,2-Tetrachloroethane	1			BDL	
p/m-Xylene	1	20.0	20.0	BDL	
o-Xylene	1	20.0	25.0	BDL	

LSB = Laboratory Spiked Blank

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS** = PPB

Matrix Type : W = Water/Aqueous S = Soil/Solid O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: **Roy F. Weston, Inc.**		
Lab No.	: 598169	Date Analyzed	: 5-14-98
PO No.	: 92078L	Analyst	: YK
Rep. Date	: 5-18-98		

QUALITY CONTROL DATA

EPA METHOD 8260B GC/MS

Date Samples Rec'd: 5-12-98

	MDL	LSB Conc.	LSB Results	Method Blank	
Styrene	1			BDL	
Bromoform	1	20.0	24.0	BDL	
Isopropylbenzene	1			BDL	
1,1,2,2-Tetrachloroethane	1	20.0	26.0	BDL	
Bromobenzene	1			BDL	
1,2,3-Trichloropropane	1			BDL	
n-Propylbenzene	1			BDL	
2-Chlorotoluene	1			BDL	
1,3,5-Trimethylbenzene	1			BDL	
4-Chlorotoluene	1			BDL	
tert-Butylbenzene	1			BDL	
1,2,4-Trimethylbenzene	1			BDL	
sec-Butylbenzene	1			BDL	
p-Isopropyltoluene	1			BDL	
1,3-Dichlorobenzene	1			BDL	
1,2,3-Trimethylbenzene	1			BDL	
1,4-Dichlorobenzene	1			BDL	
n-Butylbenzene	1			BDL	
1,2-Dichlorobenzene	1			BDL	
1,2Dibromo-3-chloropropane	1			BDL	
1,2,4-Trichlorobenzene	1			BDL	
Hexachlorobutadiene	1			BDL	
Naphthalene	1			BDL	
1,2,3-Trichlorobenzene	1			BDL	
Dibromofluoromethane (SR)	---		107	113	
Toluene-d8 (SR)	---		107	110	

LSB = Laboratory Spiked Blank/**SR** = Surrogate Recovery Percent

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS** = PPB

Matrix Type : **W** = Water/Aqueous **S** = Soil/Solid **O** = Oil/Hydrocarbons

Client	: **Roy F. Weston, Inc.**	Date Extracted:	5-14-98
Lab No.	: 598169	Date Analyzed :	5-14-98
PO No.	: 92078L	Analyst :	YK
Rep. Date	: 5-18-98		

QUALITY CONTROL DATA

EPA METHOD 8260B GC/MS

Date Samples Rec'd: 5-12-98

Matrix Type :		**S**		**S**	
CTL Sample No.		**5452**		**5454**	
Field ID :		**FFD-1-00-0**		**FFD-1-02-0**	
	MDL	**Duplicate**	**LSM Conc.**	**LSM Results**	
Dichlorodifluoromethane	10	BDL		BDL	
Chloromethane	10	BDL		BDL	
Vinyl chloride	10	BDL		BDL	
Chloroethane	10	BDL		BDL	
Bromomethane	10	BDL		BDL	
Trichlorofluoromethane	10	BDL		BDL	
1,1-Dichloroethylene	10	BDL	200.0	236.0	
Methylene chloride	10	BDL		BDL	
trans-1,2-Dichloroethylene	10	BDL		BDL	
1,1-Dichloroethane	10	BDL		BDL	
2,2-Dichloropropane	10	BDL		BDL	
cis-1,2-Dichloroethylene	10	BDL		BDL	
Chloroform	10	BDL		BDL	
Bromochloromethane	10	BDL		BDL	
1,1,1-Trichloroethane	10	BDL		BDL	
1,1-Dichloropropylene	10	BDL		BDL	
Carbon tetrachloride	10	BDL		BDL	
Benzene	10	BDL	200.0	247.0	
1,2-Dichloroethane	10	BDL		BDL	
Trichloroethylene	10	BDL	200.0	233.0	
1,2-Dichloropropane	10	BDL		BDL	
Bromodichloromethane	10	BDL		BDL	
Dibromomethane	10	BDL		BDL	
cis-1,3-Dichloropropylene	10	BDL		BDL	
Toluene	10	BDL	200.0	220.0	
t-1,3-Dichloropropylene	10	BDL		BDL	
1,1,2-Trichloroethane	10	BDL		BDL	
Tetrachloroethylene	10	BDL		BDL	
1,3-Dichloropropane	10	BDL		BDL	
Dibromochloromethane	10	BDL		BDL	
1,2-Dibromoethane (EDB)	10	BDL		BDL	
Chlorobenzene	10	BDL	200.0	233.0	
Ethylbenzene	10	BDL		BDL	
1,1,1,2-Tetrachloroethane	10	BDL		BDL	
p/m-Xylene	10	BDL		BDL	
o-Xylene	10	BDL		BDL	

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS** = PPB

Matrix Type : W = Water/Aqueous S = Soil/Solid O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: **Roy F. Weston, Inc.**	Date Extracted:	5-14-98
Lab No.	: 598169	Date Analyzed :	5-14-98
PO No.	: 92078L	Analyst :	YK
Rep. Date	: 5-18-98		

QUALITY CONTROL DATA

EPA METHOD 8260B GC/MS

Date Samples Rec'd: 5-12-98

	MDL	Duplicate	LSM Conc.	LSM Results	
Matrix Type :		**S**		**S**	
CTL Sample No.		**5452**		**5454**	
Field ID :		**FFD-1-00-0**		**FFD-1-02-0**	
Styrene	10	BDL		BDL	
Bromoform	10	BDL		BDL	
Isopropylbenzene	10	BDL		BDL	
1,1,2,2-Tetrachloroethane	10	BDL		BDL	
Bromobenzene	10	BDL		BDL	
1,2,3-Trichloropropane	10	BDL		BDL	
n-Propylbenzene	10	BDL		BDL	
2-Chlorotoluene	10	BDL		BDL	
1,3,5-Trimethylbenzene	10	BDL		BDL	
4-Chlorotoluene	10	BDL		BDL	
tert-Butylbenzene	10	BDL		BDL	
1,2,4-Trimethylbenzene	10	BDL		BDL	
sec-Butylbenzene	10	BDL		BDL	
p-Isopropyltoluene	10	BDL		BDL	
1,3-Dichlorobenzene	10	BDL		BDL	
1,2,3-Trimethylbenzene	10	BDL		BDL	
1,4-Dichlorobenzene	10	BDL		BDL	
n-Butylbenzene	10	BDL		BDL	
1,2-Dichlorobenzene	10	BDL		BDL	
1,2Dibromo-3-chloropropane	10	BDL		BDL	
1,2,4-Trichlorobenzene	10	BDL		BDL	
Hexachlorobutadiene	10	BDL		BDL	
Naphthalene	10	BDL		BDL	
1,2,3-Trichlorobenzene	10	BDL		BDL	
Methyl ethyl ketone	50	BDL		BDL	
Methyl butyl ketone	50	BDL		BDL	
Methyl isobutyl ketone	50	BDL		BDL	
Dibromofluoromethane (SR)	---	104		79	
Toluene-d8 (SR)	---	96		112	

SR= Surrogate Recovery Percent

MDL= Minimum Detectable Level/**BDL**= Below Detection Level/**UNITS**= PPB

Matrix Type : **W**= Water/Aqueous **S**= Soil/Solid **O**=Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
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Connecticut Certification No. PH-0547

Client	: **Roy F. Weston, Inc.**	Date Extracted:	5-14-98
Lab No.	: 598169	Date Analyzed :	5-14-98
PO No.	: 92078L	Analyst :	YK
Rep. Date	: 5-18-98		

QUALITY CONTROL DATA

EPA METHOD 8270C Modified **Date Samples Rec'd: 5-12-98**

	MDL	LSB TV	LSB Results	Method Blank	
Acenaphthene	100	700.0	656.0	BDL	
Acenaphthylene	100			BDL	
Anthracene	100			BDL	
Benzidine	100			BDL	
Benzo(a)anthracene	100			BDL	
Benzo(a)pyrene	100	700.0	669.0	BDL	
3,4-Benzofluoranthene	100			BDL	
Benzo(ghi)perylene	500			BDL	
Benzo(k)fluoranthene	100			BDL	
Bis(2-chloroethoxy)methane	100			BDL	
Bis(2-Chloroethyl)Ether	100			BDL	
Bis(2chloroisopropyl)ether	100			BDL	
Bis(2-ethylhexyl)phthalate	100			BDL	
4-Bromophenylphenyl ether	100			BDL	
Butylbenzyl phthalate	100			BDL	
2-Chloronaphthalene	100			BDL	
4-Chlorophenyl phenylether	100			BDL	
Chrysene	100			BDL	
Dibenzo(a,H)anthracene	500			BDL	
1,2-Dichlorobenzene	100			BDL	
1,3-Dichlorobenzene	100	700.0	618.0	BDL	
1,4-Dichlorobenzene	100			BDL	
3,3-Dichlorobenzidine	100			BDL	
Diethyl phthalate	100			BDL	
Dimethyl phthalate	100			BDL	
Di-n-butyl phthalate	100			BDL	
2,4-Dinitrotoluene	100			BDL	
2,6-Dinitrotoluene	100			BDL	
Di-n-octyl phthalate	100	700.0	629.0	BDL	
1,2-Diphenylhydrazine	100			BDL	
Fluoranthene	100			BDL	
Fluorene	100			BDL	
Hexachlorobenzene	100			BDL	
Hexachlorobutadiene	100	700.0	652.0	BDL	

MDL= Minimum Detectable Level/**BDL**= Below Detection Level/**UNITS**= PPB

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbons

Client : **Roy F. Weston, Inc.**	Date Extracted: 5-14-98
Lab No. : 598169	Date Analyzed : 5-14-98
PO No. : 92078L	Analyst : YK
Rep. Date : 5-18-98	

QUALITY CONTROL DATA

EPA METHOD 8270C Modified **Date Samples Rec'd: 5-12-98**

	MDL	LSB TV	LSB Results	Method Blank	
Hexachlorocyclopentadiene	100			BDL	
Hexachloroethane	100			BDL	
Indeno(1,2,3-cd)pyrene	500			BDL	
Isophorone	100			BDL	
Naphthalene	100			BDL	
Nitrobenzene	100			BDL	
N-Nitrosodimethylamine	100			BDL	
N-Nitrosodi-n-propylamine	100			BDL	
N-Nitrosodiphenylamine	100	700.0	566.0	BDL	
Phenanthrene	100			BDL	
Pyrene	100	700.0	652.0	BDL	
1,2,4-Trichlorobenzene	100			BDL	
2-Chlorophenol	500	700.0	674.0	BDL	
2,4-Dichlorophenol	500			BDL	
2,4-Dimethylphenol	500			BDL	
2-Methyl-46-dinitrophenol	500			BDL	
2,4-Dinitrophenol	500	700.0	727.0	BDL	
2-Nitrophenol	500			BDL	
4-Nitrophenol	500			BDL	
4-Chloro-3-methylphenol	500	700.0	755.0	BDL	
Pentachlorophenol	500	700.0	678.0	BDL	
Phenol	500	700.0	681.0	BDL	
2,4,6-Trichlorophenol	500			BDL	
Acenaphthylene-d10 (SR)	---		80	98	
Phenanthrene-d10 (SR)	---		83	78	

SR = Surrogate Recovery Percent/**LSB** = Laboratory Spiked Blank

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS** = PPB

Matrix Type: W = Water/Aqueous **S** = Soil/Solid **O** = Oil/Hydrocarbons

Date Samples Received : 5-13-98

Client Name: **Roy F. Weston**	CTL Lab. No. 598209
Report Date: 5-20-98	Work Order No. 03886-118-012
	Sub Contract Agreement # 92078L

RESULTS OF ANALYSIS

EPA 418.1

Matrix Type: S

Field ID	CTL No.	Oil & Grease (TPH)-ppm
FFD-2-00-0	5549	ND<25
FFD-2-01-0	5550	272
FFD-2-02-0	5551	ND<25
FFD-2-03-0	5552	ND<25
FFD-2-04-0	5553	ND<25
FFD-2-05-0	5554	ND<25

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

Client : Roy F. Weston, Inc.	Date Extracted: 5-14-98
Lab No. : 598209	Date Analyzed : 5-14-98
PO No. : 92078L	
Rep. Date : 5-20-98	Analyst : YK

EPA METHOD 8260B GC/MS Date Samples Rec'd: 5-13-98

Matrix Type :		S	S	S	S
CTL Sample No.		5549	5550	5551	5552
Field ID		FFD-2 00-0	FFD-2 01-0	FFD-2 02-0	FFD-2 03-0
	MDL				
Dichlorodifluoromethane	10	BDL	BDL	BDL	BDL
Chloromethane	10	BDL	BDL	BDL	BDL
Vinyl chloride	10	BDL	BDL	BDL	BDL
Chloroethane	10	BDL	BDL	BDL	BDL
Bromomethane	10	BDL	BDL	BDL	BDL
Trichlorofluoromethane	10	BDL	BDL	BDL	BDL
1,1-Dichloroethylene	10	BDL	BDL	BDL	BDL
Methylene chloride	10	BDL	BDL	BDL	BDL
trans-1,2-Dichloroethylene	10	BDL	BDL	BDL	BDL
1,1-Dichloroethane	10	BDL	BDL	BDL	BDL
2,2-Dichloropropane	10	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethylene	10	BDL	BDL	BDL	BDL
Chloroform	10	BDL	BDL	BDL	BDL
Bromochloromethane	10	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	10	BDL	BDL	BDL	BDL
1,1-Dichloropropylene	10	BDL	BDL	BDL	BDL
Carbon tetrachloride	10	BDL	BDL	BDL	BDL
Benzene	10	BDL	BDL	BDL	BDL
1,2-Dichloroethane	10	BDL	BDL	BDL	BDL
Trichloroethylene	10	BDL	BDL	BDL	BDL
1,2-Dichloropropane	10	BDL	BDL	BDL	BDL
Bromodichloromethane	10	BDL	BDL	BDL	BDL
Dibromomethane	10	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropylene	10	BDL	BDL	BDL	BDL
Toluene	10	BDL	18.0	BDL	BDL
t-1,3-Dichloropropylene	10	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	10	BDL	BDL	BDL	BDL
Tetrachloroethylene	10	BDL	BDL	BDL	BDL
1,3-Dichloropropane	10	BDL	BDL	BDL	BDL
Dibromochloromethane	10	BDL	BDL	BDL	BDL
1,2-Dibromoethane (EDB)	10	BDL	BDL	BDL	BDL
Chlorobenzene	10	BDL	BDL	BDL	BDL
Ethylbenzene	10	BDL	11.0	BDL	BDL
1,1,1,2-Tetrachloroethane	10	BDL	BDL	BDL	BDL
p/m-Xylene	10	12.0	28.0	BDL	BDL
o-Xylene	10	BDL	20.0	BDL	BDL

MDL= Minimum Detectable Level/**BDL**= Below Detection Level/**UNITS**= PPB

Matrix Type : W = Water/Aqueous S = Soil/Solid O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: Roy F. Weston, Inc.	Date Extracted:	5-14-98
Lab No.	: 598209	Date Analyzed :	5-14-98
PO No.	: 92078L		
Rep. Date	: 5-20-98	Analyst :	YK

EPA METHOD 8260B GC/MS

Date Samples Rec'd: 5-13-98

Matrix Type : / **CTL Sample No.** / **Field ID**	**MDL**	**S 5549 FFD-2 00-0**	**S 5550 FFD-2 01-0**	**S 5551 FFD-2 02-0**	**S 5552 FFD-2 03-0**
Styrene	10	BDL	BDL	BDL	BDL
Bromoform	10	BDL	BDL	BDL	BDL
Isopropylbenzene	10	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	10	BDL	BDL	BDL	BDL
Bromobenzene	10	BDL	BDL	BDL	BDL
1,2,3-Trichloropropane	10	BDL	BDL	BDL	BDL
n-Propylbenzene	10	BDL	BDL	BDL	BDL
2-Chlorotoluene	10	BDL	BDL	BDL	BDL
1,3,5-Trimethylbenzene	10	30.0	54.0	BDL	BDL
4-Chlorotoluene	10	BDL	BDL	BDL	BDL
tert-Butylbenzene	10	BDL	BDL	BDL	BDL
1,2,4-Trimethylbenzene	10	14.0	55.0	BDL	BDL
sec-Butylbenzene	10	BDL	BDL	BDL	BDL
p-Isopropyltoluene	10	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	10	BDL	BDL	BDL	BDL
1,2,3-Trimethylbenzene	10	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	10	BDL	BDL	BDL	BDL
n-Butylbenzene	10	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	10	BDL	BDL	BDL	BDL
1,2Dibromo-3-chloropropane	10	BDL	BDL	BDL	BDL
1,2,4-Trichlorobenzene	10	BDL	BDL	BDL	BDL
Hexachlorobutadiene	10	BDL	BDL	BDL	BDL
Naphthalene	10	27.0	51.0	BDL	BDL
1,2,3-Trichlorobenzene	10	BDL	BDL	BDL	BDL
Dibromofluoromethane (SR)	---	97	103	115	106
Toluene-d8 (SR)	---	90	98	112	100

SR= Surrogate Recovery Percent

MDL= Minimum Detectable Level/**BDL=** Below Detection Level/**UNITS=** PPB

Matrix Type : W= Water/Aqueous S= Soil/Solid O=Oil/Hydrocarbons

Client	: Roy F. Weston, Inc.	Date Extracted:	5-14-98
Lab No.	: 598209	Date Analyzed :	5-14-98
PO No.	: 92078L		
Rep. Date	: 5-20-98	Analyst :	YK

EPA METHOD 8260B GC/MS **Date Samples Rec'd: 5-13-98**

Matrix Type :		**S**	**S**		
CTL Sample No.		**5553**	**5554**		
Field ID		**FFD-2 04-0**	**FFD-2 05-0**		
	MDL				
Dichlorodifluoromethane	10	BDL	BDL		
Chloromethane	10	BDL	BDL		
Vinyl chloride	10	BDL	BDL		
Chloroethane	10	BDL	BDL		
Bromomethane	10	BDL	BDL		
Trichlorofluoromethane	10	BDL	BDL		
1,1-Dichloroethylene	10	BDL	BDL		
Methylene chloride	10	BDL	BDL		
trans-1,2-Dichloroethylene	10	BDL	BDL		
1,1-Dichloroethane	10	BDL	BDL		
2,2-Dichloropropane	10	BDL	BDL		
is-1,2-Dichloroethylene	10	BDL	BDL		
Chloroform	10	BDL	BDL		
Bromochloromethane	10	BDL	BDL		
1,1,1-Trichloroethane	10	BDL	BDL		
1,1-Dichloropropylene	10	BDL	BDL		
Carbon tetrachloride	10	BDL	BDL		
Benzene	10	BDL	BDL		
1,2-Dichloroethane	10	BDL	BDL		
Trichloroethylene	10	BDL	BDL		
1,2-Dichloropropane	10	BDL	BDL		
Bromodichloromethane	10	BDL	BDL		
Dibromomethane	10	BDL	BDL		
cis-1,3-Dichloropropylene	10	BDL	BDL		
Toluene	10	BDL	BDL		
t-1,3-Dichloropropylene	10	BDL	BDL		
1,1,2-Trichloroethane	10	BDL	BDL		
Tetrachloroethylene	10	BDL	BDL		
1,3-Dichloropropane	10	BDL	BDL		
Dibromochloromethane	10	BDL	BDL		
1,2-Dibromoethane (EDB)	10	BDL	BDL		
Chlorobenzene	10	BDL	BDL		
Ethylbenzene	10	BDL	BDL		
1,1,1,2-Tetrachloroethane	10	BDL	BDL		
p/m-Xylene	10	BDL	BDL		
o-Xylene	10	BDL	BDL		

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS** = PPB

Matrix Type : W = Water/Aqueous S = Soil/Solid O = Oil/Hydrocarbons

Client	: Roy F. Weston, Inc.	Date Extracted:	5-14-98
Lab No.	: 598209	Date Analyzed :	5-14-98
PO No.	: 92078L		
Rep. Date	: 5-20-98	Analyst :	YK

EPA METHOD 8260B GC/MS **Date Samples Rec'd: 5-13-98**

Matrix Type :		**S**	**S**		
CTL Sample No.		**5553**	**5554**		
Field ID		**FFD-2 04-0**	**FFD-2 05-0**		
	MDL				
Styrene	10	BDL	BDL		
Bromoform	10	BDL	BDL		
Isopropylbenzene	10	BDL	BDL		
1,1,2,2-Tetrachloroethane	10	BDL	BDL		
Bromobenzene	10	BDL	BDL		
1,2,3-Trichloropropane	10	BDL	BDL		
n-Propylbenzene	10	BDL	BDL		
2-Chlorotoluene	10	BDL	BDL		
1,3,5-Trimethylbenzene	10	BDL	BDL		
4-Chlorotoluene	10	BDL	BDL		
ert-Butylbenzene	10	BDL	BDL		
1,2,4-Trimethylbenzene	10	BDL	BDL		
sec-Butylbenzene	10	BDL	BDL		
p-Isopropyltoluene	10	BDL	BDL		
1,3-Dichlorobenzene	10	BDL	BDL		
1,2,3-Trimethylbenzene	10	BDL	BDL		
1,4-Dichlorobenzene	10	BDL	BDL		
n-Butylbenzene	10	BDL	BDL		
1,2-Dichlorobenzene	10	BDL	BDL		
1,2Dibromo-3-chloropropane	10	BDL	BDL		
1,2,4-Trichlorobenzene	10	BDL	BDL		
Hexachlorobutadiene	10	BDL	BDL		
Naphthalene	10	BDL	BDL		
1,2,3-Trichlorobenzene	10	BDL	BDL		
Dibromofluoromethane (SR)	---	107	107		
Toluene-d8 (SR)	---	99	101		

SR = Surrogate Recovery Percent

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS** = PPB

Matrix Type : W = Water/Aqueous S = Soil/Solid O = Oil/Hydrocarbons

Client	: Roy F. Weston, Inc.	Date Extracted:	5-15-98
Lab No.	: 598209	Date Analyzed :	5-16-98
PO No.	: 92078L		
Rep. Date	: 5-20-98	Analyst :	YK

EPA METHOD 8270C Modified **Date Samples Rec'd:** 5-13-98

Matrix Type :		**S**	**S**	**S**	**S**
CTL Sample No.		**5549**	**5550**	**5551**	**5552**
Field ID		**FFD-2 00-0**	**FFD-2 01-0**	**FFD-2 02-0**	**FFD-2 03-0**
	MDL				
Acenaphthene	100	BDL	BDL	BDL	BDL
Acenaphthylene	100	BDL	BDL	BDL	BDL
Anthracene	100	BDL	BDL	BDL	BDL
Benzidine	100	BDL	BDL	BDL	BDL
Benzo(a)anthracene	100	BDL	BDL	BDL	BDL
Benzo(a)pyrene	100	BDL	BDL	BDL	BDL
3,4-Benzofluoranthene	100	BDL	BDL	BDL	BDL
Benzo(ghi)perylene	500	BDL	BDL	BDL	BDL
Benzo(k)fluoranthene	100	BDL	BDL	BDL	BDL
Bis(2-chloroethoxy)methane	100	BDL	BDL	BDL	BDL
Bis(2-Chloroethyl)Ether	100	BDL	BDL	BDL	BDL
Bis(2chloroisopropyl)ether	100	BDL	BDL	BDL	BDL
Bis(2-ethylhexyl)phthalate	100	BDL	BDL	BDL	BDL
4-Bromophenylphenyl ether	100	BDL	BDL	BDL	BDL
Butylbenzyl phthalate	100	BDL	BDL	BDL	BDL
2-Chloronaphthalene	100	BDL	BDL	BDL	BDL
4-Chlorophenyl phenylether	100	BDL	BDL	BDL	BDL
Chrysene	100	BDL	BDL	BDL	BDL
Dibenzo(a,H)anthracene	500	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	100	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	100	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	100	BDL	BDL	BDL	BDL
3,3-Dichlorobenzidine	100	BDL	BDL	BDL	BDL
Diethyl phthalate	100	BDL	BDL	BDL	BDL
Dimethyl phthalate	100	BDL	BDL	BDL	BDL
Di-n-butyl phthalate	100	BDL	BDL	BDL	BDL
2,4-Dinitrotoluene	100	BDL	BDL	BDL	BDL
2,6-Dinitrotoluene	100	BDL	BDL	BDL	BDL
Di-n-octyl phthalate	100	BDL	BDL	BDL	BDL
1,2-Diphenylhydrazine	100	BDL	BDL	BDL	BDL
Fluoranthene	100	189.0	BDL	BDL	BDL
Fluorene	100	BDL	BDL	BDL	BDL
Hexachlorobenzene	100	BDL	BDL	BDL	BDL
Hexachlorobutadiene	100	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/**BDL**= Below Detection Level/**UNITS**= PPB

Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

Client : Roy F. Weston, Inc.	Date Extracted: 5-15-98
Lab No. : 598209	Date Analyzed : 5-16-98
PO No. : 92078L	
Rep. Date : 5-20-98	Analyst : YK

EPA METHOD 8270C Modified **Date Samples Rec'd:** 5-13-98

Matrix Type :		**S**	**S**	**S**	**S**
CTL Sample No.		**5549**	**5550**	**5551**	**5552**
Field ID		**FFD-2 00-0**	**FFD-2 01-0**	**FFD-2 02-0**	**FFD-2 03-0**
	MDL				
Hexachlorocyclopentadiene	100	BDL	BDL	BDL	BDL
Hexachloroethane	100	BDL	BDL	BDL	BDL
Indeno(1,2,3-cd)pyrene	500	BDL	BDL	BDL	BDL
Isophorone	100	BDL	BDL	BDL	BDL
Naphthalene	100	BDL	BDL	BDL	BDL
Nitrobenzene	100	BDL	BDL	BDL	BDL
N-Nitrosodimethylamine	100	BDL	BDL	BDL	BDL
N-Nitrosodi-n-propylamine	100	BDL	BDL	BDL	BDL
N-Nitrosodiphenylamine	100	BDL	BDL	BDL	BDL
Phenanthrene	100	BDL	BDL	BDL	BDL
Pyrene	100	126.0	BDL	BDL	BDL
1,2,4-Trichlorobenzene	100	BDL	BDL	BDL	BDL
2-Chlorophenol	500	BDL	BDL	BDL	BDL
2,4-Dichlorophenol	500	BDL	BDL	BDL	BDL
2,4-Dimethylphenol	500	BDL	BDL	BDL	BDL
2-Methyl-46-dinitrophenol	500	BDL	BDL	BDL	BDL
2,4-Dinitrophenol	500	BDL	BDL	BDL	BDL
2-Nitrophenol	500	BDL	BDL	BDL	BDL
4-Nitrophenol	500	BDL	BDL	BDL	BDL
4-Chloro-3-methylphenol	500	BDL	BDL	BDL	BDL
Pentachlorophenol	500	BDL	BDL	BDL	BDL
Phenol	500	BDL	BDL	BDL	BDL
2,4,6-Trichlorophenol	500	BDL	BDL	BDL	BDL
Acenaphthene-d10 (SR)	---	101	92	126	136
Phenanthrene-d10 (SR)	---	98	87	117	132

MDL = Minimum Detectable Level / **BDL** = Below Detection Level / **UNITS** = PPB

Matrix Type: W = Water/Aqueous **S** = Soil/Solid **O** = Oil/Hydrocarbons

SR = Surrogate Recovery Percent

Client	: Roy F. Weston, Inc.	Date Extracted:	5-15-98
Lab No.	: 598209	Date Analyzed :	5-16-98
PO No.	: 92078L		
Rep. Date	: 5-20-98	Analyst :	YK

EPA METHOD 8270C Modified **Date Samples Rec'd:** 5-13-98

Matrix Type :		**S**	**S**		
CTL Sample No.		**5553**	**5554**		
Field ID		**FFD-2**	**FFD-2**		
		04-0	**05-0**		
	MDL				
Acenaphthene	100	BDL	BDL		
Acenaphthylene	100	BDL	BDL		
Anthracene	100	BDL	BDL		
Benzidine	100	BDL	BDL		
Benzo(a)anthracene	100	BDL	BDL		
Benzo(a)pyrene	100	BDL	BDL		
3,4-Benzofluoranthene	100	BDL	BDL		
Benzo(ghi)perylene	500	BDL	BDL		
Benzo(k)fluoranthene	100	BDL	BDL		
Bis(2-chloroethoxy)methane	100	BDL	BDL		
Bis(2-Chloroethyl)Ether	100	BDL	BDL		
is(2chloroisopropyl)ether	100	BDL	BDL		
›is(2-ethylhexyl)phthalate	100	BDL	BDL		
4-Bromophenylphenyl ether	100	BDL	BDL		
Butylbenzyl phthalate	100	BDL	BDL		
2-Chloronaphthalene	100	BDL	BDL		
4-Chlorophenyl phenylether	100	BDL	BDL		
Chrysene	100	BDL	BDL		
Dibenzo(a,H)anthracene	500	BDL	BDL		
1,2-Dichlorobenzene	100	BDL	BDL		
1,3-Dichlorobenzene	100	BDL	BDL		
1,4-Dichlorobenzene	100	BDL	BDL		
3,3-Dichlorobenzidine	100	BDL	BDL		
Diethyl phthalate	100	BDL	BDL		
Dimethyl phthalate	100	BDL	BDL		
Di-n-butyl phthalate	100	BDL	BDL		
2,4-Dinitrotoluene	100	BDL	BDL		
2,6-Dinitrotoluene	100	BDL	BDL		
Di-n-octyl phthalate	100	BDL	BDL		
1,2-Diphenylhydrazine	100	BDL	BDL		
Fluoranthene	100	BDL	BDL		
Fluorene	100	BDL	BDL		
Hexachlorobenzene	100	BDL	BDL		
Hexachlorobutadiene	100	BDL	BDL		

MDL = Minimum Detectable Level / **BDL** = Below Detection Level / **UNITS** = PPB

Matrix Type: W = Water/Aqueous **S** = Soil/Solid **O** = Oil/Hydrocarbons

Client	: Roy F. Weston, Inc.	Date Extracted:	5-15-98
Lab No.	: 598209	Date Analyzed :	5-16-98
PO No.	: 92078L		
Rep. Date	: 5-20-98	Analyst :	YK

EPA METHOD 8270C Modified **Date Samples Rec'd:** 5-13-98

Matrix Type :		**S**	**S**		
CTL Sample No.		**5553**	**5554**		
Field ID		**FFD-2 04-0**	**FFD-2 05-0**		
	MDL				
Hexachlorocyclopentadiene	100	BDL	BDL		
Hexachloroethane	100	BDL	BDL		
Indeno(1,2,3-cd)pyrene	500	BDL	BDL		
Isophorone	100	BDL	BDL		
Naphthalene	100	BDL	BDL		
Nitrobenzene	100	BDL	BDL		
N-Nitrosodimethylamine	100	BDL	BDL		
N-Nitrosodi-n-propylamine	100	BDL	BDL		
N-Nitrosodiphenylamine	100	BDL	BDL		
Phenanthrene	100	BDL	BDL		
Pyrene	100	BDL	BDL		
1,2,4-Trichlorobenzene	100	BDL	BDL		
2-Chlorophenol	500	BDL	BDL		
2,4-Dichlorophenol	500	BDL	BDL		
2,4-Dimethylphenol	500	BDL	BDL		
2-Methyl-46-dinitrophenol	500	BDL	BDL		
2,4-Dinitrophenol	500	BDL	BDL		
2-Nitrophenol	500	BDL	BDL		
4-Nitrophenol	500	BDL	BDL		
4-Chloro-3-methylphenol	500	BDL	BDL		
Pentachlorophenol	500	BDL	BDL		
Phenol	500	BDL	BDL		
2,4,6-Trichlorophenol	500	BDL	BDL		
Acenaphthene-d10 (SR)	---	90	136		
Phenanthrene-d10 (SR)	---	84	131		

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS** = PPB

Matrix Type: **W** = Water/Aqueous **S** = Soil/Solic **O** = Oil/Hydrocarbons

SR = Surrogate Recovery Percent

Date Samples Received : 5-13-98

Client Name: **Roy F. Weston**	CTL Lab. No. 598209
Report Date: 5-20-98	Work Order No. 03886-118-012
	Sub Contract Agreement # 92078L

QUALITY CONTROL DATA

	LSB Conc.	LSB Result	Method Blank	EPA Method No.
Oil & Grease (TPH)-ppm	1,450	1,750	ND<25	418.1

LSB = Laboratory Spiked Blank

Client	: **Roy F. Weston, Inc.**	Date Extracted:	5-14-98
Lab No.	: 598209	Date Analyzed :	5-14-98
PO No.	: 92078L	Analyst :	YK
Rep. Date	: 5-20-98		

QUALITY CONTROL DATA

EPA METHOD 8260B GC/MS

Date Samples Rec'd: 5-13-98

CTL Sample No.	MDL	LSB Conc.	LSB TV	Method Blank	* 5549 Duplicate Analysis
Dichlorodifluoromethane	1			BDL	BDL
Chloromethane	1			BDL	BDL
Vinyl chloride	1			BDL	BDL
Chloroethane	1			BDL	BDL
Bromomethane	1			BDL	BDL
Trichlorofluoromethane	1			BDL	BDL
1,1-Dichloroethylene	1	20.0	23.0	BDL	BDL
Methylene chloride	1			BDL	BDL
trans-1,2-Dichloroethylene	1	20.0	24.0	BDL	BDL
1,1-Dichloroethane	1	20.0	22.0	BDL	BDL
2,2-Dichloropropane	1			BDL	BDL
cis-1,2-Dichloroethylene	1	20.0	21.0	BDL	BDL
Chloroform	1	20.0	24.0	BDL	BDL
Bromochloromethane	1			BDL	BDL
1,1,1-Trichloroethane	1	20.0	25.0	BDL	BDL
1,1-Dichloropropylene	1			BDL	BDL
Carbon tetrachloride	1	20.0	23.0	BDL	BDL
Benzene	1	20.0	23.0	BDL	BDL
1,2-Dichloroethane	1	20.0	20.0	BDL	BDL
Trichloroethylene	1	20.0	24.0	BDL	BDL
1,2-Dichloropropane	1			BDL	BDL
Bromodichloromethane	1	20.0	22.0	BDL	BDL
Dibromomethane	1			BDL	BDL
cis-1,3-Dichloropropylene	1			BDL	BDL
Toluene	1	20.0	22.0	BDL	BDL
t-1,3-Dichloropropylene	1			BDL	BDL
1,1,2-Trichloroethane	1			BDL	BDL
Tetrachloroethylene	1	20.0	23.0	BDL	BDL
1,3-Dichloropropane	1			BDL	BDL
Dibromochloromethane	1			BDL	BDL
1,2-Dibromoethane (EDB)	1			BDL	BDL
Chlorobenzene	1	20.0	24.0	BDL	BDL
Ethylbenzene	1	20.0	26.0	BDL	BDL
1,1,1,2-Tetrachloroethane	1			BDL	BDL
p/m-Xylene	1	20.0	20.0	BDL	BDL
o-Xylene	1	20.0	25.0	BDL	10.0

* **MDL** = 10 times level indicated.

LSB = Laboratory Spiked Blank

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS** = PPB

Matrix Type : W = Water/Aqueous S = Soil/Solid O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: **Roy F. Weston, Inc.**	Date Extracted:	5-14-98
Lab No.	: 598209	Date Analyzed :	5-14-98
PO No.	: 92078L	Analyst :	YK
Rep. Date	: 5-20-98		

QUALITY CONTROL DATA

EPA METHOD 8260B GC/MS

Date Samples Rec'd: 5-13-98

CTL Sample No.	**MDL**	**LSB Conc.**	**LSB TV**	**Method Blank**	**5549 Duplicate Analysis**
Styrene	1			BDL	BDL
Bromoform	1	20.0	24.0	BDL	BDL
Isopropylbenzene	1			BDL	BDL
1,1,2,2-Tetrachloroethane	1	20.0	26.0	BDL	BDL
Bromobenzene	1			BDL	BDL
1,2,3-Trichloropropane	1			BDL	BDL
n-Propylbenzene	1			BDL	BDL
2-Chlorotoluene	1			BDL	BDL
,3,5-Trimethylbenzene	1			BDL	BDL
-Chlorotoluene	1			BDL	BDL
tert-Butylbenzene	1			BDL	BDL
1,2,4-Trimethylbenzene	1			BDL	22.0
sec-Butylbenzene	1			BDL	BDL
p-Isopropyltoluene	1			BDL	14.0
1,3-Dichlorobenzene	1			BDL	BDL
1,2,3-Trimethylbenzene	1			BDL	BDL
1,4-Dichlorobenzene	1			BDL	BDL
n-Butylbenzene	1			BDL	BDL
1,2-Dichlorobenzene	1			BDL	BDL
1,2Dibromo-3-chloropropane	1			BDL	BDL
1,2,4-Trichlorobenzene	1			BDL	BDL
Hexachlorobutadiene	1			BDL	BDL
Naphthalene	1			BDL	10.0
1,2,3-Trichlorobenzene	1			BDL	BDL
Dibromofluoromethane (SR)	---		107	95	102
Toluene-d8 (SR)	---		107	93	96

* **MDL**= 10 times level indicated.

LSB= Laboratory Spiked Blank/**SR**= Surrogate Recovery Percent

MDL= Minimum Detectable Level/**BDL**= Below Detection Level/**UNITS**= PPB

Matrix Type : **W**= Water/Aqueous **S**= Soil/Solid **O**=Oil/Hydrocarbons

Client	: Roy F. Weston, Inc.	Date Extracted:	5-15-98
Lab No.	: 598209	Date Analyzed :	5-16-98
PO No.	: 92078L		
Rep. Date	: 5-20-98	Analyst :	YK

QUALITY CONTROL DATA

EPA METHOD 8270C Modified **Date Samples Rec'd:** 5-13-98

	MDL	LSB TV	LSB Results	Method Blank	
Acenaphthene	100			BDL	
Acenaphthylene	100			BDL	
Anthracene	100			BDL	
Benzidine	100			BDL	
Benzo(a)anthracene	100			BDL	
Benzo(a)pyrene	100	700.0	799.0	BDL	
3,4-Benzofluoranthene	100			BDL	
Benzo(ghi)perylene	500			BDL	
Benzo(k)fluoranthene	100			BDL	
Bis(2-chloroethoxy)methane	100			BDL	
Bis(2-Chloroethyl)Ether	100			BDL	
Bis(2chloroisopropyl)ether	100			BDL	
)is(2-ethylhexyl)phthalate	100			BDL	
-Bromophenylphenyl ether	100			BDL	
Butylbenzyl phthalate	100			BDL	
2-Chloronaphthalene	100			BDL	
4-Chlorophenyl phenylether	100			BDL	
Chrysene	100			BDL	
Dibenzo(a,H)anthracene	500			BDL	
1,2-Dichlorobenzene	100			BDL	
1,3-Dichlorobenzene	100	700.0	779.0	BDL	
1,4-Dichlorobenzene	100			BDL	
3,3-Dichlorobenzidine	100			BDL	
Diethyl phthalate	100			BDL	
Dimethyl phthalate	100			BDL	
Di-n-butyl phthalate	100	700.0	798.0	BDL	
2,4-Dinitrotoluene	100			BDL	
2,6-Dinitrotoluene	100	700.0	806.0	BDL	
Di-n-octyl phthalate	100			BDL	
1,2-Diphenylhydrazine	100			BDL	
Fluoranthene	100			BDL	
Fluorene	100			BDL	
Hexachlorobenzene	100			BDL	
Hexachlorobutadiene	100	700.0	795.0	BDL	

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS** = PPB

Matrix Type: W = Water/Aqueous **S** = Soil/Solid **O** = Oil/Hydrocarbons

Client	: Roy F. Weston, Inc.	Date Extracted:	5-15-98
Lab No.	: 598209	Date Analyzed :	5-16-98
PO No.	: 92078L		
Rep. Date	: 5-20-98	Analyst :	YK

QUALITY CONTROL DATA

EPA METHOD 8270C Modified **Date Samples Rec'd:** 5-13-98

	MDL	LSB TV	LSB Results	Method Blank	
Hexachlorocyclopentadiene	100			BDL	
Hexachloroethane	100			BDL	
Indeno(1,2,3-cd)pyrene	500	700.0	645.0	BDL	
Isophorone	100			BDL	
Naphthalene	100			BDL	
Nitrobenzene	100			BDL	
N-Nitrosodimethylamine	100			BDL	
N-Nitrosodi-n-propylamine	100			BDL	
N-Nitrosodiphenylamine	100	700.0	616.0	BDL	
Phenanthrene	100			BDL	
Pyrene	100			BDL	
1,2,4-Trichlorobenzene	100			BDL	
2-Chlorophenol	500	700.0	602.0	BDL	
,4-Dichlorophenol	500			BDL	
2,4-Dimethylphenol	500			BDL	
2-Methyl-46-dinitrophenol	500			BDL	
2,4-Dinitrophenol	500	700.0	823.0	BDL	
2-Nitrophenol	500			BDL	
4-Nitrophenol	500			BDL	
4-Chloro-3-methylphenol	500	700.0	601.0	BDL	
Pentachlorophenol	500	700.0	744.0	BDL	
Phenol	500	700.0	645.0	BDL	
2,4,6-Trichlorophenol	500			BDL	
Acenaphthylene-d10 (SR)	---		102	82	
Phenanthrene-d10 (SR)	---		98	79	

SR = Surrogate Recovery Percent/**LSB** = Laboratory Spiked Blank

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS** = PPB

Matrix Type: W = Water/Aqueous **S** = Soil/Solid **O** = Oil/Hydrocarbons

Date Samples Received : 5-18-98

Client Name: **Roy F. Weston**	CTL Lab. No. 598251
Report Date: 5-21-98	PO/Job No. 03886-118-02
	Sub Contract Agreement No. 92078L

RESULTS OF ANALYSIS

EPA 418.1

Matrix Type	**S**	**S**		
CTL Sample No.	**5679**	**5680**		
Field ID	**FFD-2-06-0**	**FFD-4-00-0**		
Oil & Grease (TPH)-ppm	ND<25	ND<25		

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

Client	: Roy F. Weston, Inc.	Date Extracted:	5-19-98
Lab No.	: 598251	Date Analyzed :	5-19-98
PO No.	: 92078L		
Rep. Date	: 5-21-98	Analyst :	YK

EPA METHOD 8260B GC/MS

Date Samples Rec'd: 5-18-98

Matrix Type :		**S**				
CTL Sample No.		**5679**				
Field ID :		**FFD-2-06-0**				
	MDL					
Dichlorodifluoromethane	10	BDL				
Chloromethane	10	BDL				
Vinyl chloride	10	BDL				
Chloroethane	10	BDL				
Bromomethane	10	BDL				
Trichlorofluoromethane	10	BDL				
1,1-Dichloroethylene	10	BDL				
Methylene chloride	10	BDL				
trans-1,2-Dichloroethylene	10	BDL				
1,1-Dichloroethane	10	BDL				
2,2-Dichloropropane	10	BDL				
cis-1,2-Dichloroethylene	10	BDL				
Chloroform	10	BDL				
Bromochloromethane	10	BDL				
1,1,1-Trichloroethane	10	BDL				
1,1-Dichloropropylene	10	BDL				
Carbon tetrachloride	10	BDL				
Benzene	10	BDL				
1,2-Dichloroethane	10	BDL				
Trichloroethylene	10	BDL				
1,2-Dichloropropane	10	BDL				
Bromodichloromethane	10	BDL				
Dibromomethane	10	BDL				
cis-1,3-Dichloropropylene	10	BDL				
Toluene	10	BDL				
t-1,3-Dichloropropylene	10	BDL				
1,1,2-Trichloroethane	10	BDL				
Tetrachloroethylene	10	BDL				
1,3-Dichloropropane	10	BDL				
Dibromochloromethane	10	BDL				
1,2-Dibromoethane (EDB)	10	BDL				
Chlorobenzene	10	BDL				
Ethylbenzene	10	BDL				
1,1,1,2-Tetrachloroethane	10	BDL				
p/m-Xylene	10	BDL				
o-Xylene	10	BDL				

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS** = PPB

Matrix Type : W = Water/Aqueous S = Soil/Solid O = Oil/Hydrocarbons

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Connecticut Certification No. PH-0547

Client	: Roy F. Weston, Inc.	Date Extracted:	5-19-98
Lab No.	: 598251	Date Analyzed :	5-19-98
PO No.	: 92078L		
Rep. Date	: 5-21-98	Analyst :	YK

EPA METHOD 8260B GC/MS **Date Samples Rec'd: 5-18-98**

Matrix Type :		**S**			
CTL Sample No.		**5679**			
Field ID :		**FFD-2-**			
	MDL	**06-0**			
Styrene	10	BDL			
Bromoform	10	BDL			
Isopropylbenzene	10	BDL			
1,1,2,2-Tetrachloroethane	10	BDL			
Bromobenzene	10	BDL			
1,2,3-Trichloropropane	10	BDL			
n-Propylbenzene	10	BDL			
2-Chlorotoluene	10	BDL			
1,3,5-Trimethylbenzene	10	BDL			
4-Chlorotoluene	10	BDL			
tert-Butylbenzene	10	BDL			
1,2,4-Trimethylbenzene	10	BDL			
sec-Butylbenzene	10	BDL			
p-Isopropyltoluene	10	BDL			
1,3-Dichlorobenzene	10	BDL			
1,2,3-Trimethylbenzene	10	BDL			
1,4-Dichlorobenzene	10	BDL			
n-Butylbenzene	10	BDL			
1,2-Dichlorobenzene	10	BDL			
1,2Dibromo-3-chloropropane	10	BDL			
1,2,4-Trichlorobenzene	10	BDL			
Hexachlorobutadiene	10	BDL			
Naphthalene	10	BDL			
1,2,3-Trichlorobenzene	10	BDL			
Methyl ethyl ketone	50	BDL			
Methyl butyl ketone	50	BDL			
Methyl isobutyl ketone	50	BDL			
Dibromofluoromethane (SR)	---	110			
Toluene-d8 (SR)	---	102			

SR = Surrogate Recovery Percent

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS** = PPB

Matrix Type : W = Water/Aqueous S = Soil/Solid O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: **Roy F. Weston, Inc.**	Date Extracted:	5-20-98
Lab No.	: 598251	Date Analyzed :	5-20-98
PO No.	: 92078L	Analyst :	YK
Rep. Date	: 5-21-98		

EPA METHOD 8270C Modified **Date Samples Rec'd:** 5-18-98

Matrix Type :		**S**			
CTL Sample No.		**5679**			
Field ID :		**FFD-2-**			
	MDL	**06-0**			
Acenaphthene	100	BDL			
Acenaphthylene	100	BDL			
Anthracene	100	BDL			
Benzidine	100	BDL			
Benzo(a)anthracene	100	BDL			
Benzo(a)pyrene	100	BDL			
3,4-Benzofluoranthene	100	BDL			
Benzo(ghi)perylene	500	BDL			
Benzo(k)fluoranthene	100	BDL			
Bis(2-chloroethoxy)methane	100	BDL			
Bis(2-Chloroethyl)Ether	100	BDL			
Bis(2chloroisopropyl)ether	100	BDL			
Bis(2-ethylhexyl)phthalate	100	BDL			
4-Bromophenylphenyl ether	100	BDL			
Butylbenzyl phthalate	100	BDL			
2-Chloronaphthalene	100	BDL			
4-Chlorophenyl phenylether	100	BDL			
Chrysene	100	BDL			
Dibenzo(a,H)anthracene	500	BDL			
1,2-Dichlorobenzene	100	BDL			
1,3-Dichlorobenzene	100	BDL			
1,4-Dichlorobenzene	100	BDL			
3,3-Dichlorobenzidine	100	BDL			
Diethyl phthalate	100	BDL			
Dimethyl phthalate	100	BDL			
Di-n-butyl phthalate	100	BDL			
2,4-Dinitrotoluene	100	BDL			
2,6-Dinitrotoluene	100	BDL			
Di-n-octyl phthalate	100	BDL			
1,2-Diphenylhydrazine	100	BDL			
Fluoranthene	100	BDL			
Fluorene	100	BDL			
Hexachlorobenzene	100	BDL			
Hexachlorobutadiene	100	BDL			

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS** = PPB

Matrix Type: W = Water/Aqueous **S** = Soil/Solid **O** = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: **Roy F. Weston, Inc.**	Date Extracted:	5-20-98
Lab No.	: 598251	Date Analyzed	: 5-20-98
PO No.	: 92078L	Analyst	: YK
Rep. Date	: 5-21-98		

EPA METHOD 8270C Modified **Date Samples Rec'd:** 5-18-98

Matrix Type :		**S**			
CTL Sample No.		**5679**			
Field ID :		**FFD-2-**			
	MDL	**06-0**			
Hexachlorocyclopentadiene	100	BDL			
Hexachloroethane	100	BDL			
Indeno(1,2,3-cd)pyrene	500	BDL			
Isophorone	100	BDL			
Naphthalene	100	BDL			
Nitrobenzene	100	BDL			
N-Nitrosodimethylamine	100	BDL			
N-Nitrosodi-n-propylamine	100	BDL			
N-Nitrosodiphenylamine	100	BDL			
Phenanthrene	100	BDL			
Pyrene	100	BDL			
1,2,4-Trichlorobenzene	100	BDL			
2-Chlorophenol	500	BDL			
2,4-Dichlorophenol	500	BDL			
2,4-Dimethylphenol	500	BDL			
2-Methyl-46-dinitrophenol	500	BDL			
2,4-Dinitrophenol	500	BDL			
2-Nitrophenol	500	BDL			
4-Nitrophenol	500	BDL			
4-Chloro-3-methylphenol	500	BDL			
Pentachlorophenol	500	BDL			
Phenol	500	BDL			
2,4,6-Trichlorophenol	500	BDL			
Acenaphthene-d10 (SR)	---	87			
Phenanthrene-d10 (SR)	---	78			

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS** = PPB

Matrix Type: **W** = Water/Aqueous **S** = Soil/Solid **O** = Oil/Hydrocarbons

SR = Surrogate Recovery Percent

Date Samples Received : 5-18-98

Client Name: **Roy F. Weston** CTL Lab. No. 598251
Report Date: 5-21-98 PO/Job No. 03886-118-02
Sub Contract Agreement No. 92078L

RESULTS OF ANALYSIS

QUALITY CONTROL DATA

	LSB TV	LSB Results	Method Blank	
Oil & Grease (TPH)-ppm	1,450	1,320	ND<25	

LSB = Laboratory Spiked Blank

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

Client	: Roy F. Weston, Inc.	Date Analyzed	: 5-19-98
Lab No.	: 598251	Analyst	: YK
PO No.	: 92078L		
Rep. Date	: 5-21-98		

QUALITY CONTROL DATA

EPA METHOD 8260 GC/MS Date Samples Rec'd: 5-18-98

	MDL	LSB TV	LSB Results	Method Blank	
Dichlorodifluoromethane	1			BDL	
Chloromethane	1			BDL	
Vinyl chloride	1			BDL	
Chloroethane	1			BDL	
Bromomethane	1			BDL	
Trichlorofluoromethane	1			BDL	
1,1-Dichloroethylene	1	20.0	22.0	BDL	
Methylene chloride	1			BDL	
trans-1,2-Dichloroethylene	1	20.0	24.0	BDL	
1,1-Dichloroethane	1	20.0	21.0	BDL	
2,2-Dichloropropane	1			BDL	
cis-1,2-Dichloroethylene	1	20.0	19.0	BDL	
Chloroform	1	20.0	22.0	BDL	
Bromochloromethane	1			BDL	
1,1,1-Trichloroethane	1	20.0	22.0	BDL	
1,1-Dichloropropylene	1			BDL	
Carbon tetrachloride	1	20.0	21.0	BDL	
Benzene	1	20.0	24.0	BDL	
1,2-Dichloroethane	1	20.0	16.0	BDL	
Trichloroethylene	1	20.0	21.0	BDL	
1,2-Dichloropropane	1			BDL	
Bromodichloromethane	1	20.0	20.0	BDL	
Dibromomethane	1			BDL	
cis-1,3-Dichloropropylene	1			BDL	
Toluene	1	20.0	23.0	BDL	
t-1,3-Dichloropropylene	1			BDL	
1,1,2-Trichloroethane	1			BDL	
Tetrachloroethylene	1	20.0	20.0	BDL	
1,3-Dichloropropane	1			BDL	
Dibromochloromethane	1			BDL	
1,2-Dibromoethane (EDB)	1			BDL	
Chlorobenzene	1	20.0	24.0	BDL	
Ethylbenzene	1	20.0	25.0	BDL	
1,1,1,2-Tetrachloroethane	1			BDL	
p/m-Xylene	1	20.0	23.0	BDL	
o-Xylene	1	20.0	24.0	BDL	

MDL= Minimum Detectable Level/**BDL**= Below Detection Level/**UNITS**= PPB
Matrix Type : **W**= Water/Aqueous **S**= Soil/Solid **O**=Oil/Hydrocarbons
SR= Surrogate Recovery Percent/**LSB** = Laboratory Spiked Blank

CONNECTICUT TESTING LABORATORIES, INC.
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Connecticut Certification No. PH-0547

Client	: Roy F. Weston, Inc.	Date Analyzed	: 5-19-98
Lab No.	: 598251	Analyst	: YK
PO No.	: 92078L		
Rep. Date	: 5-21-98		

QUALITY CONTROL DATA

EPA METHOD 8260 GC/MS Date Samples Rec'd: 5-18-98

	MDL	LSB TV	LSB Results	Method Blank	
Styrene	1			BDL	
Bromoform	1	20.0	20.0	BDL	
Isopropylbenzene	1			BDL	
1,1,2,2-Tetrachloroethane	1	20.0	20.0	BDL	
Bromobenzene	1			BDL	
1,2,3-Trichloropropane	1			BDL	
n-Propylbenzene	1			BDL	
2-Chlorotoluene	1			BDL	
1,3,5-Trimethylbenzene	1			BDL	
4-Chlorotoluene	1			BDL	
tert-Butylbenzene	1			BDL	
1,2,4-Trimethylbenzene	1			BDL	
sec-Butylbenzene	1			BDL	
p-Isopropyltoluene	1			BDL	
1,3-Dichlorobenzene	1			BDL	
1,2,3-Trimethylbenzene	1			BDL	
1,4-Dichlorobenzene	1			BDL	
n-Butylbenzene	1			BDL	
1,2-Dichlorobenzene	1			BDL	
1,2Dibromo-3-chloropropane	1			BDL	
1,2,4-Trichlorobenzene	1			BDL	
Hexachlorobutadiene	1			BDL	
Naphthalene	1			BDL	
1,2,3-Trichlorobenzene	1			BDL	
Methyl ethyl ketone	10			BDL	
Methyl butyl ketone	10			BDL	
Methyl isobutyl ketone	10			BDL	
Dibromochloromethane (SR)	---		100	106	
Toluene-d10 (SR)	---		98	95	

MDL= Minimum Detectable Level/**BDL**= Below Detection Level/**UNITS**= PPB
Matrix Type : W= Water/Aqueous **S**= Soil/Solid **O**=Oil/Hydrocarbons
SR= Surrogate Recovery Percent/**LSB** = Laboratory Spiked Blank

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: **Roy F. Weston, Inc.**	Date Extracted:	5-20-98
Lab No.	: 598251	Date Analyzed :	5-20-98
PO No.	: 92078L	Analyst :	YK
Rep. Date	: 5-21-98		

QUALITY CONTROL DATA

EPA METHOD 8270C Modified **Date Samples Rec'd:** 5-18-98

	MDL	LSB TV	LSB Results	Method Blank	
Acenaphthene	100	800.0	845.0	BDL	
Acenaphthylene	100			BDL	
Anthracene	100			BDL	
Benzidine	100			BDL	
Benzo(a)anthracene	100			BDL	
Benzo(a)pyrene	100	800.0	757.0	BDL	
3,4-Benzofluoranthene	100			BDL	
Benzo(ghi)perylene	500			BDL	
Benzo(k)fluoranthene	100			BDL	
Bis(2-chloroethoxy)methane	100			BDL	
Bis(2-Chloroethyl)Ether	100			BDL	
Bis(2chloroisopropyl)ether	100			BDL	
Bis(2-ethylhexyl)phthalate	100			BDL	
4-Bromophenylphenyl ether	100			BDL	
Butylbenzyl phthalate	100			BDL	
2-Chloronaphthalene	100			BDL	
4-Chlorophenyl phenylether	100			BDL	
Chrysene	100			BDL	
Dibenzo(a,H)anthracene	500			BDL	
1,2-Dichlorobenzene	100			BDL	
1,3-Dichlorobenzene	100			BDL	
1,4-Dichlorobenzene	100	800.0	794.0	BDL	
3,3-Dichlorobenzidine	100			BDL	
Diethyl phthalate	100			BDL	
Dimethyl phthalate	100			BDL	
Di-n-butyl phthalate	100			BDL	
2,4-Dinitrotoluene	100			BDL	
2,6-Dinitrotoluene	100			BDL	
Di-n-octyl phthalate	100	800.0	820.0	BDL	
1,2-Diphenylhydrazine	100			BDL	
Fluoranthene	100	800.0	843.0	BDL	
Fluorene	100			BDL	
Hexachlorobenzene	100			BDL	
Hexachlorobutadiene	100	800.0	806.0	BDL	

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS** = PPB

Matrix Type: **W** = Water/Aqueous **S** = Soil/Solid **O** = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client : **Roy F. Weston, Inc.**	Date Extracted: 5-20-98
Lab No. : 598251	Date Analyzed : 5-20-98
PO No. : 92078L	Analyst : YK
Rep. Date : 5-21-98	

QUALITY CONTROL DATA

EPA METHOD 8270C Modified **Date Samples Rec'd:** 5-18-98

	MDL	LSB TV	LSB Results	Method Blank	
Hexachlorocyclopentadiene	100			BDL	
Hexachloroethane	100			BDL	
Indeno(1,2,3-cd)pyrene	500			BDL	
Isophorone	100			BDL	
Naphthalene	100			BDL	
Nitrobenzene	100			BDL	
N-Nitrosodimethylamine	100			BDL	
N-Nitrosodi-n-propylamine	100			BDL	
N-Nitrosodiphenylamine	100	800.0	630.0	BDL	
Phenanthrene	100			BDL	
Pyrene	100			BDL	
1,2,4-Trichlorobenzene	100			BDL	
2-Chlorophenol	500	800.0	617.0	BDL	
2,4-Dichlorophenol	500			BDL	
2,4-Dimethylphenol	500			BDL	
2-Methyl-46-dinitrophenol	500	800.0	1,087.0	BDL	
2,4-Dinitrophenol	500	800.0	866.0	BDL	
2-Nitrophenol	500			BDL	
4-Nitrophenol	500			BDL	
4-Chloro-3-methylphenol	500	800.0	640.0	BDL	
Pentachlorophenol	500	800.0	954.0	BDL	
Phenol	500	800.0	606.0	BDL	
2,4,6-Trichlorophenol	500			BDL	
Acenaphthylene-d10 (SR)	---		82	84	
Phenanthrene-d10 (SR)	---		79	80	

SR = Surrogate Recovery Percent/**LSB** = Laboratory Spiked Blank

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS** = PPB

Matrix Type: W = Water/Aqueous **S** = Soil/Solid **O** = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Date Samples Received : 5/26/98

Client Name: **Roy F. Weston**	CTL Lab. No. 598379
Report Date: 6-1-98	PO/Job No. 03886-118-02
	Sub Contract Agreement No. 92078L

RESULTS OF ANALYSIS

EPA 418.1

Matrix Type	**S**	**S**		
CTL Sample No.	**6060**	**6061**		
Field ID	**FFD-3 -00-0**	**FFD-3 -00-1**		
Oil & Grease (TPH)-ppm	2,605	4,034		

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: Roy F. Weston, Inc.	Date Extracted:	5-28-98
Lab No.	: 598379	Date Analyzed :	5-28-98
PO No.	: 92078L		
Rep. Date	: 6-1-98	Analyst :	YK

EPA METHOD 8260B GC/MS Date Samples Rec'd: 5-26-98

Matrix Type :		S	S		
CTL Sample No.		6060	6061		
Field ID :	MDL	FFD-3-00-0	FFD-3-00-1		
Dichlorodifluoromethane	10	BDL	BDL		
Chloromethane	10	BDL	BDL		
Vinyl chloride	10	BDL	BDL		
Chloroethane	10	BDL	BDL		
Bromomethane	10	BDL	BDL		
Trichlorofluoromethane	10	BDL	BDL		
1,1-Dichloroethylene	10	BDL	BDL		
Methylene chloride	10	BDL	BDL		
trans-1,2-Dichloroethylene	10	BDL	BDL		
1,1-Dichloroethane	10	BDL	BDL		
2,2-Dichloropropane	10	BDL	BDL		
cis-1,2-Dichloroethylene	10	BDL	BDL		
Chloroform	10	BDL	BDL		
Bromochloromethane	10	BDL	BDL		
1,1,1-Trichloroethane	10	BDL	BDL		
1,1-Dichloropropylene	10	BDL	BDL		
Carbon tetrachloride	10	BDL	BDL		
Benzene	10	BDL	BDL		
1,2-Dichloroethane	10	BDL	BDL		
Trichloroethylene	10	BDL	BDL		
1,2-Dichloropropane	10	BDL	BDL		
Bromodichloromethane	10	BDL	BDL		
Dibromomethane	10	BDL	BDL		
cis-1,3-Dichloropropylene	10	BDL	BDL		
Toluene	10	BDL	BDL		
t-1,3-Dichloropropylene	10	BDL	BDL		
1,1,2-Trichloroethane	10	BDL	BDL		
Tetrachloroethylene	10	BDL	BDL		
1,3-Dichloropropane	10	BDL	BDL		
Dibromochloromethane	10	BDL	BDL		
1,2-Dibromoethane (EDB)	10	BDL	BDL		
Chlorobenzene	10	BDL	BDL		
Ethylbenzene	10	74.0	74.0		
1,1,1,2-Tetrachloroethane	10	BDL	BDL		
p/m-Xylene	10	BDL	BDL		
o-Xylene	10	BDL	BDL		

MDL= Minimum Detectable Level/**BDL**= Below Detection Level/**UNITS**= PPB

Matrix Type : W= Water/Aqueous **S**= Soil/Solid **O**=Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: Roy F. Weston, Inc.	Date Extracted:	5-28-98
Lab No.	: 598379	Date Analyzed :	5-28-98
PO No.	: 92078L		
Rep. Date	: 6-1-98	Analyst :	YK

EPA METHOD 8260B GC/MS Date Samples Rec'd: 5-26-98

Matrix Type :		S	S		
CTL Sample No.		6060	6061		
Field ID :		FFD-3-00-0	FFD-3-00-1		
	MDL				
Styrene	10	BDL	BDL		
Bromoform	10	BDL	BDL		
Isopropylbenzene	10	101.0	115.0		
1,1,2,2-Tetrachloroethane	10	BDL	BDL		
Bromobenzene	10	BDL	BDL		
1,2,3-Trichloropropane	10	BDL	BDL		
n-Propylbenzene	10	196.0	206.0		
2-Chlorotoluene	10	BDL	BDL		
1,3,5-Trimethylbenzene	10	45.0	31.0		
4-Chlorotoluene	10	BDL	BDL		
tert-Butylbenzene	10	25.0	27.0		
1,2,4-Trimethylbenzene	10	22.0	14.0		
sec-Butylbenzene	10	154.0	187.0		
p-Isopropyltoluene	10	11.0	BDL		
1,3-Dichlorobenzene	10	BDL	BDL		
1,2,3-Trimethylbenzene	10	BDL	BDL		
1,4-Dichlorobenzene	10	BDL	BDL		
n-Butylbenzene	10	103.0	143.0		
1,2-Dichlorobenzene	10	BDL	BDL		
1,2Dibromo-3-chloropropane	10	BDL	BDL		
1,2,4-Trichlorobenzene	10	BDL	BDL		
Hexachlorobutadiene	10	BDL	BDL		
Naphthalene	10	1,339.0	1,142.0		
1,2,3-Trichlorobenzene	10	BDL	BDL		
Methyl ethyl ketone	50	BDL	BDL		
Methyl butyl ketone	50	BDL	BDL		
Methyl isobutyl ketone	50	BDL	BDL		
Dibromofluoromethane (SR)	---	84	75		
Toluene-d8 (SR)	---	65	79		

SR= *Surrogate Recovery Percent*

MDL= Minimum Detectable Level/**BDL**= Below Detection Level/**UNITS**= PPB

Matrix Type : **W**= Water/Aqueous **S**= Soil/Solid **O**=Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: **Roy F. Weston, Inc.**	Date Extracted:	5-29-98
Lab No.	: 598379	Date Analyzed	: 5-29/6-1-98
PO No.	: 92078L	Analyst	: YK
Rep. Date	: 6-1-98		

EPA METHOD 8270C Modified Date Samples Rec'd: 5-26-98

Matrix Type :		**S**	**S**		
CTL Sample No.		**6060**	**6061**		
Field ID :		**FFD-3**	**FFD-3**		
	MDL	**-00-0**	**-00-1**		
Acenaphthene	100	339.0	520.0		
Acenaphthylene	100	BDL	456.0		
Anthracene	100	169.0	279.0		
Benzidine	100	BDL	BDL		
Benzo(a)anthracene	100	BDL	111.0		
Benzo(a)pyrene	100	BDL	BDL		
3,4-Benzofluoranthene	100	BDL	BDL		
Benzo(ghi)perylene	500	BDL	BDL		
Benzo(k)fluoranthene	100	BDL	BDL		
Bis(2-chloroethoxy)methane	100	BDL	BDL		
Bis(2-Chloroethyl)Ether	100	BDL	BDL		
Bis(2chloroisopropyl)ether	100	BDL	BDL		
Bis(2-ethylhexyl)phthalate	100	BDL	BDL		
4-Bromophenylphenyl ether	100	BDL	BDL		
Butylbenzyl phthalate	100	BDL	BDL		
2-Chloronaphthalene	100	BDL	BDL		
4-Chlorophenyl phenylether	100	BDL	BDL		
Chrysene	100	BDL	132.0		
Dibenzo(a,H)anthracene	500	BDL	BDL		
1,2-Dichlorobenzene	100	BDL	BDL		
1,3-Dichlorobenzene	100	BDL	BDL		
1,4-Dichlorobenzene	100	BDL	BDL		
3,3-Dichlorobenzidine	100	BDL	BDL		
Diethyl phthalate	100	BDL	BDL		
Dimethyl phthalate	100	BDL	BDL		
Di-n-butyl phthalate	100	BDL	BDL		
2,4-Dinitrotoluene	100	BDL	BDL		
2,6-Dinitrotoluene	100	BDL	BDL		
Di-n-octyl phthalate	100	BDL	BDL		
1,2-Diphenylhydrazine	100	BDL	BDL		
Fluoranthene	100	156.0	251.0		
Fluorene	100	538.0	862.0		
Hexachlorobenzene	100	BDL	BDL		
Hexachlorobutadiene	100	BDL	BDL		

MDL= Minimum Detectable Level/**BDL**= Below Detection Level/**UNITS**= PPB

Matrix Type: W= Water/Aqueous S= Soil/Solid **O**= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: **Roy F. Weston, Inc.**	Date Extracted:	5-29-98
Lab No.	: 598379	Date Analyzed :	5-29/6-1-98
PO No.	: 92078L	Analyst :	YK
Rep. Date	: 6-1-98		

EPA METHOD 8270C Modified **Date Samples Rec'd:** 5-26-98

Matrix Type :		**S**	**S**		
CTL Sample No.		**6060**	**6061**		
Field ID :		**FFD-3**	**FFD-3**		
	MDL	**-00-0**	**-00-1**		
Hexachlorocyclopentadiene	100	BDL	BDL		
Hexachloroethane	100	BDL	BDL		
Indeno(1,2,3-cd)pyrene	500	BDL	BDL		
Isophorone	100	BDL	BDL		
Naphthalene	100	524.0	864.0		
Nitrobenzene	100	BDL	BDL		
N-Nitrosodimethylamine	100	BDL	BDL		
N-Nitrosodi-n-propylamine	100	BDL	BDL		
N-Nitrosodiphenylamine	100	BDL	BDL		
Phenanthrene	100	1,591.0	3,076.0		
Pyrene	100	217.0	395.0		
1,2,4-Trichlorobenzene	100	BDL	BDL		
2-Chlorophenol	500	BDL	BDL		
2,4-Dichlorophenol	500	BDL	BDL		
2,4-Dimethylphenol	500	BDL	BDL		
2-Methyl-46-dinitrophenol	500	BDL	BDL		
2,4-Dinitrophenol	500	BDL	BDL		
2-Nitrophenol	500	BDL	BDL		
4-Nitrophenol	500	BDL	BDL		
4-Chloro-3-methylphenol	500	BDL	BDL		
Pentachlorophenol	500	BDL	BDL		
Phenol	500	BDL	BDL		
2,4,6-Trichlorophenol	500	BDL	BDL		
Acenaphthene-d10 (SR)	---	109	97		
Phenanthrene-d10 (SR)	---	131	75		

SR = Surrogate Recovery Percent

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS** = PPB

Matrix Type: **W** = Water/Aqueous **S** = Soil/Solid **O** = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Date Samples Received : 5/26/98

Client Name: **Roy F. Weston**	CTL Lab. No. 598379
Report Date: 6-1-98	PO/Job No. 03886-118-02
	Sub Contract Agreement No. 92078L

RESULTS OF ANALYSIS

QUALITY CONTROL DATA

	LSB Conc.	LSB Results	Method Blank	
Oil & Grease (TPH)-ppm	1,450	1,178	ND<25	

Matrix Type CTL Sample No. Field ID	S 6062 FFD-3 -00-2 LD Results	LSM Conc.	S 6062 FFD-3 -00-2 LSM Results	% Recovery
Oil & Grease (TPH)-ppm	3,208	500	4,118	113

LSM = Laboratory Spiked Matrix

LSB = Laboratory Spiked Blank/**LD** = Laboratory Duplicte

Matrix Type : W = Water/Aqueous S = Soil/Solid O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: Roy F. Weston, Inc.		
Lab No.	: 598379	Date Analyzed	: 5-28-98
PO No.	: 92078L		
Rep. Date	: 6-1-98	Analyst	: YK

QUALITY CONTROL DATA

EPA METHOD 8260B GC/MS **Date Samples Rec'd: 5-26-98**

	MDL	LSB TV	LSB Results	Method Blank	
Dichlorodifluoromethane	1			BDL	
Chloromethane	1			BDL	
Vinyl chloride	1			BDL	
Chloroethane	1			BDL	
Bromomethane	1			BDL	
Trichlorofluoromethane	1			BDL	
1,1-Dichloroethylene	1	20.0	22.0	BDL	
Methylene chloride	1	20.0	24.0	BDL	
trans-1,2-Dichloroethylene	1	20.0	20.0	BDL	
1,1-Dichloroethane	1	20.0	20.0	BDL	
2,2-Dichloropropane	1			BDL	
cis-1,2-Dichloroethylene	1			BDL	
Chloroform	1	20.0	22.0	BDL	
Bromochloromethane	1			BDL	
1,1,1-Trichloroethane	1	20.0	21.0	BDL	
1,1-Dichloropropylene	1			BDL	
Carbon tetrachloride	1			BDL	
Benzene	1	20.0	24.0	BDL	
1,2-Dichloroethane	1	20.0	18.0	BDL	
Trichloroethylene	1	20.0	18.0	BDL	
1,2-Dichloropropane	1	20.0	19.0	BDL	
Bromodichloromethane	1			BDL	
Dibromomethane	1			BDL	
cis-1,3-Dichloropropylene	1			BDL	
Toluene	1	20.0	21.0	BDL	
t-1,3-Dichloropropylene	1			BDL	
1,1,2-Trichloroethane	1			BDL	
Tetrachloroethylene	1	20.0	18.0	BDL	
1,3-Dichloropropane	1			BDL	
Dibromochloromethane	1			BDL	
1,2-Dibromoethane (EDB)	1			BDL	
Chlorobenzene	1	20.0	24.0	BDL	
Ethylbenzene	1	20.0	22.0	BDL	
1,1,1,2-Tetrachloroethane	1			BDL	
p/m-Xylene	1			BDL	
o-Xylene	1			BDL	

MDL= Minimum Detectable Level/**BDL**= Below Detection Level/**UNITS**= PPB
Matrix Type : **W**= Water/Aqueous **S**= Soil/Solid **O**=Oil/Hydrocarbons
SR= Surrogate Recovery Percent/**LSB** = Laboratory Spiked Blank

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: Roy F. Weston, Inc.		
Lab No.	: 598379	Date Analyzed	: 5-28-98
PO No.	: 92078L		
Rep. Date	: 6-1-98	Analyst	: YK

QUALITY CONTROL DATA

EPA METHOD 8260B GC/MS **Date Samples Rec'd: 5-26-98**

	MDL	LSB TV	LSB Results	Method Blank	
Styrene	1			BDL	
Bromoform	1			BDL	
Isopropylbenzene	1			BDL	
1,1,2,2-Tetrachloroethane	1			BDL	
Bromobenzene	1			BDL	
1,2,3-Trichloropropane	1			BDL	
n-Propylbenzene	1			BDL	
2-Chlorotoluene	1			BDL	
1,3,5-Trimethylbenzene	1			BDL	
4-Chlorotoluene	1			BDL	
tert-Butylbenzene	1			BDL	
1,2,4-Trimethylbenzene	1			BDL	
sec-Butylbenzene	1			BDL	
p-Isopropyltoluene	1			BDL	
1,3-Dichlorobenzene	1			BDL	
1,2,3-Trimethylbenzene	1			BDL	
1,4-Dichlorobenzene	1			BDL	
n-Butylbenzene	1			BDL	
1,2-Dichlorobenzene	1			BDL	
1,2Dibromo-3-chloropropane	1			BDL	
1,2,4-Trichlorobenzene	1			BDL	
Hexachlorobutadiene	1			BDL	
Naphthalene	1			BDL	
1,2,3-Trichlorobenzene	1			BDL	
Methyl ethyl ketone	10			BDL	
Methyl butyl ketone	10			BDL	
Methyl isobutyl ketone	10			BDL	
Dibromochloromethane (SR)	---		99	103	
Toluene-d10 (SR)	---		100	96	

MDL= Minimum Detectable Level/**BDL**= Below Detection Level/**UNITS**= PPB
Matrix Type : W= Water/Aqueous **S**= Soil/Solid **O**=Oil/Hydrocarbons
SR= Surrogate Recovery Percent/**LSB** = Laboratory Spiked Blank

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: Roy F. Weston, Inc.	Date Extracted:	5-28-98
Lab No.	: 598379	Date Analyzed :	5-28-98
PO No.	: 92078L		
Rep. Date	: 6-1-98	Analyst :	YK

QUALITY CONTROL DATA

EPA METHOD 8260B GC/MS **Date Samples Rec'd:** 5/26/98

Matrix Type		**S**		**S**	
CTL Sample No.		**6062**		**6062**	
Field ID		**FFD-3 -00-2**		**FFD-3 -00-2**	
	MDL	**LD Results**	**LSM Conc.**	**LSM Results**	**% Recovery**
Dichlorodifluoromethane	10	BDL		BDL	
Chloromethane	10	BDL		BDL	
Vinyl chloride	10	BDL		BDL	
Chloroethane	10	BDL		BDL	
Bromomethane	10	BDL		BDL	
Trichlorofluoromethane	10	BDL		BDL	
1,1-Dichloroethylene	10	BDL	250.0	259.0	104
Methylene chloride	10	BDL	250.0	291.0	116
trans-1,2-Dichloroethylene	10	BDL	250.0	290.0	116
1,1-Dichloroethane	10	BDL	250.0	276.0	110
2,2-Dichloropropane	10	BDL		BDL	
cis-1,2-Dichloroethylene	10	BDL		BDL	
Chloroform	10	BDL		BDL	
Bromochloromethane	10	BDL		BDL	
1,1,1-Trichloroethane	10	BDL	250.0	275.0	110
1,1-Dichloropropylene	10	BDL		BDL	
Carbon tetrachloride	10	BDL	250.0	259.0	104
Benzene	10	BDL	250.0	248.0	99
1,2-Dichloroethane	10	BDL	250.0	242.0	97
Trichloroethylene	10	BDL	250.0	374.0	150
1,2-Dichloropropane	10	BDL	250.0	265.0	106
Bromodichloromethane	10	BDL		BDL	
Dibromomethane	10	BDL		BDL	
cis-1,3-Dichloropropylene	10	BDL	250.0	258.0	103
Toluene	10	BDL	250.0	240.0	96
t-1,3-Dichloropropylene	10	BDL	250.0	203.0	81
1,1,2-Trichloroethane	10	BDL	250.0	245.0	98
Tetrachloroethylene	10	BDL	250.0	240.0	96
1,3-Dichloropropane	10	BDL		BDL	
Dibromochloromethane	10	BDL		BDL	
1,2-Dibromoethane (EDB)	10	BDL		BDL	
Chlorobenzene	10	BDL	250.0	236.0	94
Ethylbenzene	10	67.0	250.0	333.0	106
1,1,1,2-Tetrachloroethane	10	BDL		BDL	
p/m-Xylene	10	BDL		BDL	
o-Xylene	10	BDL		BDL	

MDL= Minimum Detectable Level/**BDL**= Below Detection Level/**UNITS**= PPB

Matrix Type : W= Water/Aqueous S= Soil/Solid O=Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: Roy F. Weston, Inc.	Date Extracted:	5-28-98
Lab No.	: 598379	Date Analyzed :	5-28-98
PO No.	: 92078L		
Rep. Date	: 6-1-98	Analyst :	YK

QUALITY CONTROL DATA

EPA METHOD 8260B GC/MS **Date Samples Rec'd:** 5/26/98

Matrix Type		**S**		**S**	
CTL Sample No.		**6062**		**6062**	
Field ID		**FFD-3 -00-2**		**FFD-3 -00-2**	
	MDL	**LD Results**	**LSM Conc.**	**LSM Results**	**% Recovery**
Styrene	10	BDL		BDL	
Bromoform	10	BDL		BDL	
Isopropylbenzene	10	103.0		85.0	
1,1,2,2-Tetrachloroethane	10	BDL		BDL	
Bromobenzene	10	BDL		BDL	
1,2,3-Trichloropropane	10	BDL		BDL	
n-Propylbenzene	10	195.0		149.0	
2-Chlorotoluene	10	BDL		BDL	
1,3,5-Trimethylbenzene	10	30.0		21.0	
4-Chlorotoluene	10	BDL		BDL	
tert-Butylbenzene	10	25.0		20.0	
1,2,4-Trimethylbenzene	10	18.0		13.0	
sec-Butylbenzene	10	165.0		119.0	
p-Isopropyltoluene	10	BDL		BDL	
1,3-Dichlorobenzene	10	BDL	250.0	247.0	99
1,2,3-Trimethylbenzene	10	BDL		BDL	
1,4-Dichlorobenzene	10	BDL	250.0	229.0	92
n-Butylbenzene	10	122.0		86.0	
1,2-Dichlorobenzene	10	BDL	250.0	263.0	105
1,2Dibromo-3-chloropropane	10	BDL		BDL	
1,2,4-Trichlorobenzene	10	BDL		BDL	
Hexachlorobutadiene	10	BDL		BDL	
Naphthalene	10	1,535.0		1,361.0	
1,2,3-Trichlorobenzene	10	BDL		BDL	
Methyl ethyl ketone	50	BDL		BDL	
Methyl butyl ketone	50	BDL		BDL	
Methyl isobutyl ketone	50	BDL		BDL	
Dibromofluoromethane (SR)	---	77			68
Toluene-d8 (SR)	---	52			78

SR = Surrogate Recovery Percent/**LSM** = Laboratory Spiked Matrix

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS** = PPB

Matrix Type : W = Water/Aqueous S = Soil/Solid O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client : **Roy F. Weston, Inc.**	Date Extracted: 5-29-98
Lab No. : 598379	Date Analyzed : 5-29/6-1-98
PO No. : 92078L	Analyst : YK
Rep. Date : 6-1-98	

QUALITY CONTROL DATA

EPA METHOD 8270C Modified **Date Samples Rec'd:** 5/26/98

	MDL	LSB TV	LSB Results	Method Blank	
Acenaphthene	100	600.0	729.0	BDL	
Acenaphthylene	100			BDL	
Anthracene	100			BDL	
Benzidine	100			BDL	
Benzo(a)anthracene	100			BDL	
Benzo(a)pyrene	100	600.0	682.0	BDL	
3,4-Benzofluoranthene	100			BDL	
Benzo(ghi)perylene	500			BDL	
Benzo(k)fluoranthene	100			BDL	
Bis(2-chloroethoxy)methane	100			BDL	
Bis(2-Chloroethyl)Ether	100			BDL	
Bis(2chloroisopropyl)ether	100			BDL	
Bis(2-ethylhexyl)phthalate	100			BDL	
4-Bromophenylphenyl ether	100			BDL	
Butylbenzyl phthalate	100			BDL	
2-Chloronaphthalene	100			BDL	
4-Chlorophenyl phenylether	100			BDL	
Chrysene	100			BDL	
Dibenzo(a,H)anthracene	500			BDL	
1,2-Dichlorobenzene	100			BDL	
1,3-Dichlorobenzene	100	600.0	705.0	BDL	
1,4-Dichlorobenzene	100			BDL	
3,3-Dichlorobenzidine	100			BDL	
Diethyl phthalate	100			BDL	
Dimethyl phthalate	100			BDL	
Di-n-butyl phthalate	100			BDL	
2,4-Dinitrotoluene	100			BDL	
2,6-Dinitrotoluene	100			BDL	
Di-n-octyl phthalate	100	600.0	688.0	BDL	
1,2-Diphenylhydrazine	100			BDL	
Fluoranthene	100	600.0	710.0	BDL	
Fluorene	100			BDL	
Hexachlorobenzene	100			BDL	
Hexachlorobutadiene	100	600.0	717.0	BDL	

MDL= Minimum Detectable Level/**BDL**= Below Detection Level/**UNITS**= PPB

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbons

Client	: **Roy F. Weston, Inc.**	Date Extracted:	5-29-98
Lab No.	: 598379	Date Analyzed :	5-29/6-1-98
PO No.	: 92078L	Analyst	: YK
Rep. Date	: 6-1-98		

QUALITY CONTROL DATA

EPA METHOD 8270C Modified **Date Samples Rec'd:** 5/26/98

	MDL	LSB TV	LSB Results	Method Blank	
Hexachlorocyclopentadiene	100			BDL	
Hexachloroethane	100			BDL	
Indeno(1,2,3-cd)pyrene	500			BDL	
Isophorone	100			BDL	
Naphthalene	100			BDL	
Nitrobenzene	100			BDL	
N-Nitrosodimethylamine	100			BDL	
N-Nitrosodi-n-propylamine	100			BDL	
N-Nitrosodiphenylamine	100			BDL	
Phenanthrene	100	600.0	571.0	BDL	
Pyrene	100			BDL	
1,2,4-Trichlorobenzene	100			BDL	
2-Chlorophenol	500	600.0	524.0	BDL	
2,4-Dichlorophenol	500			BDL	
2,4-Dimethylphenol	500			BDL	
2-Methyl-46-dinitrophenol	500	600.0	582.0	BDL	
2,4-Dinitrophenol	500	600.0	765.0	BDL	
2-Nitrophenol	500			BDL	
4-Nitrophenol	500			BDL	
4-Chloro-3-methylphenol	500	600.0	567.0	BDL	
Pentachlorophenol	500	600.0	537.0	BDL	
Phenol	500	600.0	545.0	BDL	
2,4,6-Trichlorophenol	500			BDL	
Acenaphthylene-d10 (SR)	---		113	102	
Phenanthrene-d10 (SR)	---		118	100	

SR = Surrogate Recovery Percent/**LSB** = Laboratory Spiked Blank

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS** = PPB

Matrix Type: **W** = Water/Aqueous **S** = Soil/Solid **O** = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: **Roy F. Weston, Inc.**	Date Extracted: 5-29-98	
Lab No.	: 598379	Date Analyzed : 5-29/6-1-98	
PO No.	: 92078L	Analyst : YK	
Rep. Date	: 6-1-98		

QUALITY CONTROL DATA

EPA METHOD 8270C Modified **Date Samples Rec'd:** 5/26/98

Matrix Type		**S**		**S**	
CTL Sample No.		**6062**		**6062**	
Field ID		**FFD-3 -00-2 LD**	**LSM**	**FFD-3 -00-2 LSM**	**%**
	MDL	**Results**	**Conc.**	**Results**	**Recovery**
Acenaphthene	100	363.0	7,000.0	8,299.0	113
Acenaphthylene	100	BDL		BDL	
Anthracene	100	148.0		BDL	
Benzidine	100	BDL		BDL	
Benzo(a)anthracene	100	BDL		BDL	
Benzo(a)pyrene	100	BDL	7,000.0	7,937.0	113
3,4-Benzofluoranthene	100	BDL		BDL	
Benzo(ghi)perylene	500	BDL		BDL	
Benzo(k)fluoranthene	100	BDL		BDL	
Bis(2-chloroethoxy)methane	100	BDL		BDL	
Bis(2-Chloroethyl)Ether	100	BDL		BDL	
Bis(2chloroisopropyl)ether	100	BDL		BDL	
Bis(2-ethylhexyl)phthalate	100	BDL		BDL	
4-Bromophenylphenyl ether	100	BDL		BDL	
Butylbenzyl phthalate	100	BDL		BDL	
2-Chloronaphthalene	100	BDL		BDL	
4-Chlorophenyl phenylether	100	BDL		BDL	
Chrysene	100	BDL		BDL	
Dibenzo(a,H)anthracene	500	BDL		BDL	
1,2-Dichlorobenzene	100	BDL		BDL	
1,3-Dichlorobenzene	100	BDL	7,000.0	7,808.0	112
1,4-Dichlorobenzene	100	BDL		BDL	
3,3-Dichlorobenzidine	100	BDL		BDL	
Diethyl phthalate	100	BDL		BDL	
Dimethyl phthalate	100	BDL		BDL	
Di-n-butyl phthalate	100	BDL		BDL	
2,4-Dinitrotoluene	100	BDL		BDL	
2,6-Dinitrotoluene	100	BDL		BDL	
Di-n-octyl phthalate	100	BDL	7,000.0	7,904.0	113
1,2-Diphenylhydrazine	100	BDL		BDL	
Fluoranthene	100	145.0	7,000.0	8,130.0	114
Fluorene	100	585.0		717.0	
Hexachlorobenzene	100	BDL		BDL	
Hexachlorobutadiene	100	BDL	7,000.0	7,908.0	113

MDL= Minimum Detectable Level/**BDL**= Below Detection Level/**UNITS**= PPB

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: **Roy F. Weston, Inc.**	Date Extracted: 5-29-98	
Lab No.	: 598379	Date Analyzed	: 5-29/6-1-98
PO No.	: 92078L	Analyst	: YK
Rep. Date	: 6-1-98		

QUALITY CONTROL DATA

EPA METHOD 8270C Modified **Date Samples Rec'd:** 5/26/98

Matrix Type		**S**		**S**	
CTL Sample No.		**6062**		**6062**	
Field ID		**FFD-3 -00-2**		**FFD-3 -00-2**	
		LD Results	**LSM Conc.**	**LSM Results**	**% Recovery**
	MDL				
Hexachlorocyclopentadiene	100	BDL		BDL	
Hexachloroethane	100	BDL		BDL	
Indeno(1,2,3-cd)pyrene	500	BDL		BDL	
Isophorone	100	BDL		BDL	
Naphthalene	100	543.0		490.0	
Nitrobenzene	100	BDL		BDL	
N-Nitrosodimethylamine	100	BDL		BDL	
N-Nitrosodi-n-propylamine	100	BDL		BDL	
N-Nitrosodiphenylamine	100	BDL	7,000.0	7,158.0	102
Phenanthrene	100	1,828.0		1,783.0	
Pyrene	100	207.0		218.0	
1,2,4-Trichlorobenzene	100	BDL		BDL	
2-Chlorophenol	500	BDL	7,000.0	5,519.0	79
2,4-Dichlorophenol	500	BDL		BDL	
2,4-Dimethylphenol	500	BDL	7,000.0	7,620.0	109
2-Methyl-46-dinitrophenol	500	BDL	7,000.0	8,422.0	120
2,4-Dinitrophenol	500	BDL		BDL	
2-Nitrophenol	500	BDL		BDL	
4-Nitrophenol	500	BDL		BDL	
4-Chloro-3-methylphenol	500	BDL	7,000.0	5,548.0	79
Pentachlorophenol	500	BDL	7,000.0	5,500.0	79
Phenol	500	BDL	7,000.0	5,807.0	83
2,4,6-Trichlorophenol	500	BDL		BDL	
Acenaphthylene-d10 (SR)	---	91			94
Phenanthrene-d10 (SR)	---	99			95

SR = Surrogate Recovery Percent/**LSM** = Laboratory Spiked Matrix

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS** = PPB

Matrix Type: W = Water/Aqueous **S** = Soil/Solid **O** = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Date Samples Received : 6-9-98

Client Name: **Roy F. Weston**	CTL Lab. No. 698132
Report Date: 6-15-98	PO/Job No. 03886-118-012
Sub Contract Agreement No.: 92078L	

RESULTS OF ANALYSIS

EPA 418.1

Matrix Type		**S**			
CTL Sample No.		**6883**			
Field ID		**FFD-3-03-0**			
Oil & Grease (TPH)-ppm	256				

Matrix Type		**W**			
CTL Sample No.		**6882**			
Field ID		**FFD-3-04-0**			
Oil & Grease (TPH)-mg/L	ND<5				

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client : Roy F. Weston	Date Extracted: 6-10-98
Lab No. : 698132	Date Analyzed : 6-10-98
PO No. : 03886-118-012	
Rep. Date : 6-15-98	Analyst : DMG

EPA METHOD 8260B GC/MS **Date Samples Rec'd: 6-9-98**

Matrix Type :		**S**			
CTL Sample No.		**6883**			
Field ID :		**FFD-3-03-0**			
	MDL				
Dichlorodifluoromethane	10	BDL			
Chloromethane	10	BDL			
Vinyl chloride	10	BDL			
Chloroethane	10	BDL			
Bromomethane	10	BDL			
Trichlorofluoromethane	10	BDL			
1,1-Dichloroethylene	10	BDL			
Methylene chloride	10	BDL			
trans-1,2-Dichloroethylene	10	BDL			
1,1-Dichloroethane	10	BDL			
2,2-Dichloropropane	10	BDL			
cis-1,2-Dichloroethylene	10	BDL			
Chloroform	10	BDL			
Bromochloromethane	10	BDL			
1,1,1-Trichloroethane	10	BDL			
1,1-Dichloropropylene	10	BDL			
Carbon tetrachloride	10	BDL			
Benzene	10	BDL			
1,2-Dichloroethane	10	BDL			
Trichloroethylene	10	BDL			
1,2-Dichloropropane	10	BDL			
Bromodichloromethane	10	BDL			
Dibromomethane	10	BDL			
cis-1,3-Dichloropropylene	10	BDL			
Toluene	10	BDL			
t-1,3-Dichloropropylene	10	BDL			
1,1,2-Trichloroethane	10	BDL			
Tetrachloroethylene	10	BDL			
1,3-Dichloropropane	10	BDL			
Dibromochloromethane	10	BDL			
1,2-Dibromoethane (EDB)	10	BDL			
Chlorobenzene	10	BDL			
Ethylbenzene	10	BDL			
1,1,1,2-Tetrachloroethane	10	BDL			
p/m-Xylene	10	BDL			
o-Xylene	10	BDL			

MDL= Minimum Detectable Level/**BDL**= Below Detection Level/**UNITS**= PPB

Matrix Type : W= Water/Aqueous S= Soil/Solid O=Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: Roy F. Weston	Date Extracted:	6-10-98
Lab No.	: 698132	Date Analyzed :	6-10-98
PO No.	: 03886-118-012		
Rep. Date	: 6-15-98	Analyst :	DMG

EPA METHOD 8260B GC/MS **Date Samples Rec'd: 6-9-98**

Matrix Type : **S**
CTL Sample No. **6883**
Field ID : **FFD-3-03-0**

	MDL				
Styrene	10	BDL			
Bromoform	10	BDL			
Isopropylbenzene	10	BDL			
1,1,2,2-Tetrachloroethane	10	BDL			
Bromobenzene	10	BDL			
1,2,3-Trichloropropane	10	BDL			
n-Propylbenzene	10	BDL			
2-Chlorotoluene	10	BDL			
1,3,5-Trimethylbenzene	10	35.0			
4-Chlorotoluene	10	BDL			
tert-Butylbenzene	10	BDL			
1,2,4-Trimethylbenzene	10	BDL			
sec-Butylbenzene	10	BDL			
p-Isopropyltoluene	10	BDL			
1,3-Dichlorobenzene	10	BDL			
1,2,3-Trimethylbenzene	10	BDL			
1,4-Dichlorobenzene	10	BDL			
n-Butylbenzene	10	BDL			
1,2-Dichlorobenzene	10	BDL			
1,2Dibromo-3-chloropropane	10	BDL			
1,2,4-Trichlorobenzene	10	BDL			
Hexachlorobutadiene	10	BDL			
Naphthalene	10	405.0			
1,2,3-Trichlorobenzene	10	BDL			
Methyl ethyl ketone	50	BDL			
Methyl butyl ketone	50	BDL			
Methyl isobutyl ketone	50	BDL			
Dibromofluoromethane (SR)	---	93			
Toluene-d8 (SR)	---	75			

SR= Surrogate Recovery Percent

MDL= Minimum Detectable Level/**BDL**= Below Detection Level/**UNITS**= PPB

Matrix Type : W= Water/Aqueous S= Soil/Sclid O=Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: Roy F. Weston		
Lab No.	: 698132	Date Analyzed	: 6-10-98
PO No.	: 03886-118-012		
Rep. Date	: 6-15-98	Analyst	: DMG

EPA METHOD 8260B GC/MS **Date Samples Rec'd: 6-9-98**

Matrix Type : W

Field ID : FFD-3-04-0

	MDL				
Dichlorodifluoromethane	1	BDL			
Chloromethane	1	BDL			
Vinyl chloride	1	BDL			
Chloroethane	1	BDL			
Bromomethane	1	BDL			
Trichlorofluoromethane	1	BDL			
1,1-Dichloroethylene	1	BDL			
Methylene chloride	1	BDL			
trans-1,2-Dichloroethylene	1	BDL			
1,1-Dichloroethane	1	BDL			
2,2-Dichloropropane	1	BDL			
cis-1,2-Dichloroethylene	1	BDL			
Chloroform	1	BDL			
Bromochloromethane	1	BDL			
1,1,1-Trichloroethane	1	BDL			
1,1-Dichloropropylene	1	BDL			
Carbon tetrachloride	1	BDL			
Benzene	1	BDL			
1,2-Dichloroethane	1	BDL			
Trichloroethylene	1	BDL			
1,2-Dichloropropane	1	BDL			
Bromodichloromethane	1	BDL			
Dibromomethane	1	BDL			
cis-1,3-Dichloropropylene	1	BDL			
Toluene	1	BDL			
t-1,3-Dichloropropylene	1	BDL			
1,1,2-Trichloroethane	1	BDL			
Tetrachloroethylene	1	BDL			
1,3-Dichloropropane	1	BDL			
Dibromochloromethane	1	BDL			
1,2-Dibromoethane (EDB)	1	BDL			
Chlorobenzene	1	BDL			
Ethylbenzene	1	BDL			
1,1,1,2-Tetrachloroethane	1	BDL			
p/m-Xylene	1	BDL			
o-Xylene	1	BDL			

MDL= Minimum Detectable Level/**BDL**= Below Detection Level/**UNITS**= PPB

Matrix Type : W= Water/Aqueous **S**= Soil/Solid **O**=Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: Roy F. Weston		
Lab No.	: 698132	Date Analyzed	: 6-10-98
PO No.	: 03886-118-012		
Rep. Date	: 6-15-98	Analyst	: DMG

EPA METHOD 8260B GC/MS Date Samples Rec'd: 6-9-98

Matrix Type : W

Field ID : FFD-3-04-0

	MDL				
Styrene	1	BDL			
Bromoform	1	BDL			
Isopropylbenzene	1	BDL			
1,1,2,2-Tetrachloroethane	1	BDL			
Bromobenzene	1	BDL			
1,2,3-Trichloropropane	1	BDL			
n-Propylbenzene	1	BDL			
2-Chlorotoluene	1	BDL			
1,3,5-Trimethylbenzene	1	BDL			
4-Chlorotoluene	1	BDL			
tert-Butylbenzene	1	BDL			
1,2,4-Trimethylbenzene	1	BDL			
sec-Butylbenzene	1	BDL			
p-Isopropyltoluene	1	BDL			
1,3-Dichlorobenzene	1	BDL			
1,2,3-Trimethylbenzene	1	BDL			
1,4-Dichlorobenzene	1	BDL			
n-Butylbenzene	1	BDL			
1,2-Dichlorobenzene	1	BDL			
1,2Dibromo-3-chloropropane	1	BDL			
1,2,4-Trichlorobenzene	1	BDL			
Hexachlorobutadiene	1	BDL			
Naphthalene	1	BDL			
1,2,3-Trichlorobenzene	1	BDL			
Methyl ethyl ketone	10	BDL			
Methyl butyl ketone	10	BDL			
Methyl isobutyl ketone	10	BDL			
Dibromofluoromethane (SR)	---	107			
Toluene-d8 (SR)	---	105			

SR= Surrogate Recovery Percent

MDL= Minimum Detectable Level/**BDL**= Below Detection Level/**UNITS**= PPB

Matrix Type : W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: **Roy F. Weston**	Date Extracted:	6-10-98
Lab No.	: 698132	Date Analyzed	: 6-11-98
PO No.	: 03888-118-012	Analyst	: YK
Rep. Date	: 6-15-98		

EPA METHOD 8270C Modified **Date Samples Rec'd:** 6-9-98

Matrix Type :		**S**			
CTL Sample No.		**6883**			
Field ID		**FFD-3-03-0**			
	MDL				
Acenaphthene	100	BDL			
Acenaphthylene	100	BDL			
Anthracene	100	BDL			
Benzidine	100	BDL			
Benzo(a)anthracene	100	BDL			
Benzo(a)pyrene	100	BDL			
3,4-Benzofluoranthene	100	BDL			
Benzo(ghi)perylene	500	BDL			
Benzo(k)fluoranthene	100	BDL			
Bis(2-chloroethoxy)methane	100	BDL			
Bis(2-Chloroethyl)Ether	100	BDL			
Bis(2chloroisopropyl)ether	100	BDL			
Bis(2-ethylhexyl)phthalate	100	BDL			
4-Bromophenylphenyl ether	100	BDL			
Butylbenzyl phthalate	100	BDL			
2-Chloronaphthalene	100	BDL			
4-Chlorophenyl phenylether	100	BDL			
Chrysene	100	BDL			
Dibenzo(a,H)anthracene	500	BDL			
1,2-Dichlorobenzene	100	BDL			
1,3-Dichlorobenzene	100	BDL			
1,4-Dichlorobenzene	100	BDL			
3,3-Dichlorobenzidine	100	BDL			
Diethyl phthalate	100	BDL			
Dimethyl phthalate	100	BDL			
Di-n-butyl phthalate	100	BDL			
2,4-Dinitrotoluene	100	BDL			
2,6-Dinitrotoluene	100	BDL			
Di-n-octyl phthalate	100	BDL			
1,2-Diphenylhydrazine	100	BDL			
Fluoranthene	100	BDL			
Fluorene	100	BDL			
Hexachlorobenzene	100	BDL			
Hexachlorobutadiene	100	BDL			

MDL= Minimum Detectable Level/**BDL**= Below Detection Level/**UNITS**= PPB

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden. CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: **Roy F. Weston**	Date Extracted:	6-10-98
Lab No.	: 698132	Date Analyzed :	6-11-98
PO No.	: 03888-118-012	Analyst :	YK
Rep. Date	: 6-15-98		

EPA METHOD 8270C Modified **Date Samples Rec'd:** 6-9-98

Matrix Type :		***S***			
CTL Sample No.		**6883**			
Field ID		**FFD-3-03-0**			
	MDL				
Hexachlorocyclopentadiene	100	BDL			
Hexachloroethane	100	BDL			
Indeno(1,2,3-cd)pyrene	500	BDL			
Isophorone	100	BDL			
Naphthalene	100	BDL			
Nitrobenzene	100	BDL			
N-Nitrosodimethylamine	100	BDL			
N-Nitrosodi-n-propylamine	100	BDL			
N-Nitrosodiphenylamine	100	BDL			
Phenanthrene	100	150.0			
Pyrene	100	BDL			
1,2,4-Trichlorobenzene	100	BDL			
2-Chlorophenol	500	BDL			
2,4-Dichlorophenol	500	BDL			
2,4-Dimethylphenol	500	BDL			
2-Methyl-46-dinitrophenol	500	BDL			
2,4-Dinitrophenol	500	BDL			
2-Nitrophenol	500	BDL			
4-Nitrophenol	500	BDL			
4-Chloro-3-methylphenol	500	BDL			
Pentachlorophenol	500	BDL			
Phenol	500	BDL			
2,4,6-Trichlorophenol	500	BDL			
Acenaphthene-d10 (SR)	---	111			
Phenanthrene-d10 (SR)	---	111			

SR = Surrogate Recovery Percent

MDL= Minimum Detectable Level/BDL= Below Detection Level/**UNITS**= PPB

Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Date Samples Received : 6-9-98

Client Name: **Roy F. Weston**	CTL Lab. No. 698132
Report Date: 6-15-98	PO/Job No. 03886-118-012
Sub Contract Agreement No.: 92078L	

QUALITY CONTROL DATA

EPA 418.1

	LSB Conc.	LSB Results	Method Blank	
Oil & Grease (TPH)-ppm	1,450	1,488	ND<25	

	LSB Conc.	LSB Results	Method Blank	
Oil & Grease (TPH)-mg/L	20	20	ND<5	

LSB = Laboratory Spiked Blank

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

Client : Roy F. Weston	Date Extracted: 6-10-98
Lab No. : 698132	Date Analyzed : 6-10-98
PO No. : 03886-118-012	
Rep. Date : 6-15-98	Analyst : DMG

QUALITY CONTROL DATA

EPA METHOD 8260B GC/MS

Date Samples Rec'd: 6-9-98

	MDL	LSB Conc.	LSB Results	Method Blank	
Dichlorodifluoromethane	1			BDL	
Chloromethane	1			BDL	
Vinyl chloride	1			BDL	
Chloroethane	1			BDL	
Bromomethane	1			BDL	
Trichlorofluoromethane	1			BDL	
1,1-Dichloroethylene	1			BDL	
Methylene chloride	1			BDL	
trans-1,2-Dichloroethylene	1	20.0	21.0	BDL	
1,1-Dichloroethane	1	20.0	19.0	BDL	
2,2-Dichloropropane	1			BDL	
cis-1,2-Dichloroethylene	1	20.0	19.0	BDL	
Chloroform	1			BDL	
Bromochloromethane	1			BDL	
1,1,1-Trichloroethane	1	20.0	21.0	BDL	
1,1-Dichloropropylene	1			BDL	
Carbon tetrachloride	1	20.0	21.0	BDL	
Benzene	1	20.0	21.0	BDL	
1,2-Dichloroethane	1			BDL	
Trichloroethylene	1	20.0	19.0	BDL	
1,2-Dichloropropane	1			BDL	
Bromodichloromethane	1			BDL	
Dibromomethane	1			BDL	
cis-1,3-Dichloropropylene	1			BDL	
Toluene	1	20.0	20.0	BDL	
t-1,3-Dichloropropylene	1			BDL	
1,1,2-Trichloroethane	1			BDL	
Tetrachloroethylene	1	20.0	20.0	BDL	
1,3-Dichloropropane	1			BDL	
Dibromochloromethane	1			BDL	
1,2-Dibromoethane (EDB)	1			BDL	
Chlorobenzene	1	20.0	21.0	BDL	
Ethylbenzene	1			BDL	
1,1,1,2-Tetrachloroethane	1			BDL	
p/m-Xylene	1			BDL	
o-Xylene	1			BDL	

LSB = Laboratory Spiked Blank

MDL= Minimum Detectable Level/**BDL**= Below Detection Level/**UNITS**= PPB

Matrix Type : W= Water/Aqueous S= Soil/Solid O=Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client : Roy F. Weston	Date Extracted: 6-10-98
Lab No. : 698132	Date Analyzed : 6-10-98
PO No. : 03886-118-012	
Rep. Date : 6-15-98	Analyst : DMG

QUALITY CONTROL DATA

EPA METHOD 8260B GC/MS

Date Samples Rec'd: 6-9-98

	MDL	LSB Conc.	LSB Results	Method Blank	
Styrene	1			BDL	
Bromoform	1	20.0	21.0	BDL	
Isopropylbenzene	1			BDL	
1,1,2,2-Tetrachloroethane	1			BDL	
Bromobenzene	1			BDL	
1,2,3-Trichloropropane	1			BDL	
n-Propylbenzene	1			BDL	
2-Chlorotoluene	1			BDL	
1,3,5-Trimethylbenzene	1			BDL	
4-Chlorotoluene	1			BDL	
tert-Butylbenzene	1			BDL	
1,2,4-Trimethylbenzene	1			BDL	
sec-Butylbenzene	1			BDL	
p-Isopropyltoluene	1			BDL	
1,3-Dichlorobenzene	1			BDL	
1,2,3-Trimethylbenzene	1			BDL	
1,4-Dichlorobenzene	1			BDL	
n-Butylbenzene	1			BDL	
1,2-Dichlorobenzene	1			BDL	
1,2Dibromo-3-chloropropane	1			BDL	
1,2,4-Trichlorobenzene	1			BDL	
Hexachlorobutadiene	1			BDL	
Naphthalene	1			BDL	
1,2,3-Trichlorobenzene	1			BDL	
Methyl ethyl ketone	1			BDL	
Methyl butyl ketone	1			BDL	
Methyl isobutyl ketone	1			BDL	
Dibromofluoromethane (SR)	---		91	83	
Toluene-d8 (SR)	---		86	78	

SR= Surrogate Recovery Percent/**LSB** = Laboratory Spiked Blank

MDL= Minimum Detectable Level/**BDL**= Below Detection Level/**UNITS**= PPB

Matrix Type : **W**= Water/Aqueous **S**= Soil/Solid **O**=Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: **Roy F. Weston**	Date Extracted:	6-10-98
Lab No.	: 698132	Date Analyzed	: 6-11-98
PO No.	: 03888-118-012	Analyst	: YK
Rep. Date	: 6-15-98		

QUALITY CONTROL DATA

EPA METHOD 8270C Modified **Date Samples Rec'd:** 6-9-98

	MDL	LSB Conc.	LSB Results	Method Blank	
Acenaphthene	100	600.0	705.0	BDL	
Acenaphthylene	100			BDL	
Anthracene	100			BDL	
Benzidine	100			BDL	
Benzo(a)anthracene	100			BDL	
Benzo(a)pyrene	100	600.0	688.0	BDL	
3,4-Benzofluoranthene	100			BDL	
Benzo(ghi)perylene	500			BDL	
Benzo(k)fluoranthene	100			BDL	
Bis(2-chloroethoxy)methane	100			BDL	
Bis(2-Chloroethyl)Ether	100			BDL	
Bis(2chloroisopropyl)ether	100			BDL	
Bis(2-ethylhexyl)phthalate	100			BDL	
-Bromophenylphenyl ether	100			BDL	
Butylbenzyl phthalate	100			BDL	
2-Chloronaphthalene	100			BDL	
4-Chlorophenyl phenylether	100			BDL	
Chrysene	100			BDL	
Dibenzo(a,H)anthracene	500			BDL	
1,2-Dichlorobenzene	100			BDL	
1,3-Dichlorobenzene	100	600.0	682.0	BDL	
1,4-Dichlorobenzene	100			BDL	
3,3-Dichlorobenzidine	100			BDL	
Diethyl phthalate	100			BDL	
Dimethyl phthalate	100			BDL	
Di-n-butyl phthalate	100			BDL	
2,4-Dinitrotoluene	100			BDL	
2,6-Dinitrotoluene	100			BDL	
Di-n-octyl phthalate	100	600.0	681.0	BDL	
1,2-Diphenylhydrazine	100			BDL	
Fluoranthene	100	600.0	702.0	BDL	
Fluorene	100			BDL	
Hexachlorobenzene	100			BDL	
Hexachlorobutadiene	100	600.0	695.0	BDL	

LSB = Laboratory Spiked Blank

MDL = Minimum Detectable Level / **BDL** = Below Detection Level / **UNITS** = PPB

Matrix Type: W = Water/Aqueous S = Soil/Solid O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client : **Roy F. Weston**	Date Extracted: 6-10-98
Lab No. : 698132	Date Analyzed : 6-11-98
PO No. : 03888-118-012	Analyst : YK
Rep. Date : 6-15-98	

QUALITY CONTROL DATA

EPA METHOD 8270C Modified Date Samples Rec'd: 6-9-98

	MDL	LSB Conc.	LSB Results	Method Blank	
Hexachlorocyclopentadiene	100			BDL	
Hexachloroethane	100			BDL	
Indeno(1,2,3-cd)pyrene	500			BDL	
Isophorone	100			BDL	
Naphthalene	100			BDL	
Nitrobenzene	100			BDL	
N-Nitrosodimethylamine	100			BDL	
N-Nitrosodi-n-propylamine	100			BDL	
N-Nitrosodiphenylamine	100	600.0	612.0	BDL	
Phenanthrene	100			BDL	
Pyrene	100			BDL	
1,2,4-Trichlorobenzene	100			BDL	
-Chlorophenol	500	600.0	774.0	BDL	
,4-Dichlorophenol	500			BDL	
2,4-Dimethylphenol	500			BDL	
2-Methyl-46-dinitrophenol	500			BDL	
2,4-Dinitrophenol	500			BDL	
2-Nitrophenol	500			BDL	
4-Nitrophenol	500			BDL	
4-Chloro-3-methylphenol	500	600.0	790.0	BDL	
Pentachlorophenol	500	600.0	552.0	BDL	
Phenol	500	600.0	800.0	BDL	
2,4,6-Trichlorophenol	500			BDL	
Acenaphthene-d10 (SR)	---		94	93	
Phenanthrene-d10 (SR)	---		91	96	

SR = Surrogate Recovery Percent/**LSB** = Laboratory Spiked Blank

MDL= Minimum Detectable Level/**BDL**= Below Detection Level/**UNITS**= PPB

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbons

APPENDIX D

WASTE SHIPPING FORMS

CONTAINS HAZARDOUS MATERIALS

THIS MEMORANDUM is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, not a copy or duplicate, covering the property named herein, and is intended solely for filing or records.

Shipper's No. _____

(Carrier) TYRRELL ORGANIZATION SCAC. _____ Carrier's No. CT5xxxx1946

(Subject to the classifications and tariffs in effect on the date of this Bill of Lading)

at _____, date 5/11/95 from _____

The property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO: (Mail or street address of consignee for purposes of notification only.)	FROM: U.S. ARMY RESERVE CENTER
Consignee TYRRELL MEMORIAL	Shipper U.S. ARMY CORPS OF ENGINEERS
Street 2nd Route 109	Street 180 HIGH ST
Destination FARMINGDALE NY Zip	Origin FAIRFIELD CT Zip
Route:	

Delivering Carrier	Trailer Initial/Number	U.S. DOT Hazmat Reg. Number

No. of Packages	HM	Description of articles, special marks, and exceptions	Hazard Class	I.D. Number	Packing Group	*Weight (subject to correction)	Class or rate	Labels required (or exemption)	Check column
1 DRUM	G R	FLAMMABLE MIXTURE (H22) 285	3	NA 1993	III				

Remit C.O.D. to:
Address:
City: State: Zip:

COD AMT: $

Charges Advanced $

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.
(Signature of consignor)

C. O. D. FEE:
Prepaid ☐
Collect ☐ $

FREIGHT CHARGES
☐ Prepaid ☐ Collect

If shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight".
*Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
The agreed or declared value of the property is hereby _____ per _____
specifically stated by the shipper to be not exceeding

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of consignor)

The undersigned certifies that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Per _____

PLACARDS REQUIRED YES/NA 1993

PLACARDS SUPPLIED ☑ YES ☐ NO - FURNISHED BY CARRIER

DRIVER'S SIGNATURE: _____

SPECIAL INSTRUCTIONS:

SHIPPER: U.S. ARMY CORPS OF ENGINEERS

PER: _____ DATE: 5/11/95

CARRIER: TYRRELL ORGANIZATION

PER: _____ DATE: 5/11/95

EMERGENCY RESPONSE TELEPHONE NUMBER: (516) 794-2525

Monitored at all times the Hazardous Material is in transportation including storage incidental to transportation (§172.604).

Permanent post office address of shipper

CONTAINS HAZARDOUS MATERIALS

THIS MEMORANDUM is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, not a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper's No. _____

Carrier) TIE TRANSPORTATION SCAC. _____ Carrier's No. CT 20XXE 1966
(or subject to the classifications and tariffs in effect on the date of this Bill of Lading)

at _____, date 5/15/92 from _____

The property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO: (Mail or street address of consignee for purposes of notification only.)	FROM: U.S. ARMY RESERVE CENTER
Consignee TYLER MANUFACTURING	Shipper U.S. ARMY CORPS OF ENGINEERS
Street RT 8 PART 109	Street HIGH ST
Destination TERMINGTON NY Zip	Origin FAIRFIELD CT Zip
Route:	

Delivering Carrier	Trailer Initial/Number	U.S. DOT Hazmat Reg. Number

No. of packages	HM	Description of articles, special marks, and exceptions	Hazard Class	I.D. Number	Packing Group	*Weight (subject to correction)	Class or rate	Labels required (or exemption)	Check column
166	G	FULLER MIXTURE (HAZ)	3	UN 1993	III				

Remit C.O.D. to:
Address:
City: State: Zip:

COD AMT: $

Charges Advanced $

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.
(Signature of consignor)

C. O. D. FEE:
Prepaid ☐
Collect ☐ $

FREIGHT CHARGES
☐ Prepaid ☐ Collect

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight".
Note – where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
The agreed or declared value of the property is hereby _____ per _____

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.
Per _____

PLACARDS REQUIRED Yes / NO 1992

PLACARDS SUPPLIED ☑ YES ☐ NO - FURNISHED BY CARRIER

DRIVER'S SIGNATURE: _____

SPECIAL INSTRUCTIONS:

SHIPPER: U.S. ARMY CORPS OF ENGINEERS
PER: _____ DATE: 5/15/92

CARRIER: TYLER MANUFACTURING
PER: _____ DATE: 5/15/92

EMERGENCY RESPONSE TELEPHONE NUMBER: 800-255-3924
Monitored at all times the Hazardous Material is in transportation including storage incidental to transportation (§172.604).

Permanent post office address of shipper

CONTAINS HAZARDOUS MATERIALS

CONTAINS HAZARDOUS MATERIALS

THIS SHIPPING ORDER must be legibly filled in, in ink, in indelible Pencil, or in Carbon, and retained by the Agent

Shipper's No. _____

(Carrier) TYREE ORGANIZATION SCAC. _____ Carrier's No. CT32000196

Subject to the classifications and tariffs in effect on the date of this Bill of Lading

at _____, date 6/18/98 from _____

The property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said company (the word company be understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said [illegible] unless prevented by water line, otherwise to deliver to another carrier on the route to said destination, it is hereby agreed, as to each carrier of all or any of said property over all or any [illegible] as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by [illegible] contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO: (Mail or street address of consignee for purposes of notification only.)	FROM: U.S. ARMY RESERVE CEN...
Consignee TYREE BROTHERS ENVIRONMENTAL	Shipper UNITED STATES ARMY CORPS OF ENG...
Street 215 ROUTE 109	Street HIGH ST
Destination FARMINGDALE NY Zip	Origin FAIRFIELD CT Zip
Route:	

Delivering Carrier	Trailer Initial/Number	U.S. DOT Hazmat Reg. Number

No. of packages	HM	Description of articles, special marks, and exceptions	Hazard Class	I.D. Number	Packing Group	*Weight (subject to correction)	Class or rate	Labels required (or exemption)	Check column
328	G	Fuel Oil Mixture (H20)	3	NA 1993	III				

Remit C.O.D. to:
Address:
City: State: Zip:

COD AMT: $

Charges Advanced $ _____

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of consignor)

C. O. D. FEE: Prepaid ☐ Collect ☐ $

FREIGHT CHARGES ☐ Prepaid ☐ Collect

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight". Note. – Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Per _____

PLACARDS REQUIRED YES/NA 1993

PLACARDS SUPPLIED ☒ YES ☐ NO - FURNISHED BY CARRIER

DRIVER'S SIGNATURE: _____

SPECIAL INSTRUCTIONS:

SHIPPER: US ARMY CORP OF ENGINEERS
PER: Signed for Generator Robert Blow 6-18-98 DATE: 6/18/98

CARRIER: TYREE ORGANIZATION
PER: DAVID TOZZI DATE: 6/18/98

EMERGENCY RESPONSE TELEPHONE NUMBER: (516) 249-3550
Monitored at all times this Hazardous Material is in transportation including storage incidental to transportation (1-800-424-9300).

Permanent post office address of shipper

CONTAINS HAZARDOUS MATERIALS

Attn: Greg Spicer

The Tyree Organization, Ltd.

33 Mill Plain Road, Danbury, Ct 06811 · Fax: 203-797-0464 · Phone: 203-792-8822

TANK DISPOSAL CERTIFICATION

THIS IS TO CERTIFY THAT THE TYREE ORGANIZATION, LTD. HAS CLEANED AND RENDERED FREE OF PETROLEUM RESIDUE THE FOLLOWING TANK(S):

1. 5000 GALLON TANK
2. 1000 GALLON TANK
3. _____ GALLON TANK
4. _____ GALLON TANK

THE TANK(S) ~~ARE BEING~~ ACCEPTED AS SCRAP BY THE FOLLOWING PERSON: Ross Olson

REPRESENTING: Novella SCRAP YARD

ON THIS DATE: 6 Oct 98

REPRESENTING THE TYREE ORGANIZATION: Rod Lindsley

Member
Tyree Environmental Technologies

APPENDIX E

CONNECTICUT LEP OPINION REPORT

R. W. BARTLEY & ASSOCIATES, INC.
(860) 871-4966
37 BALD HILL ROAD
TOLLAND, CT 06084
FAX: (860) 871-4998
RWBARTLEY @ SNET.NET

September 29, 1998

Mr. Greg Snicer
Roy F. Weston, Inc.
One Wall Street
Manchester, NH 03101-1501

RE: Request for Licensed Environmental Professional Opinion
U. S. Army Reserve Center Project, Fairfield, Connecticut

Dear Mr. Snicer:

This letter is in response to your memorandum of September 23, 1998. Your memo transmits results and observations related to the removal of one 1,000-gallon and one 5,000-gallon underground storage tank from the U. S. Army Reserve Center located in Fairfield, Connecticut. Your memo describes the removal of these tanks and the subsequent environmental investigations and sampling, and other sampling associated with a building investigation in the furnace room portion of the basement.

Your memo requests my determination as a Connecticut Licensed Environmental Professional as to whether compliance with the Connecticut Remediation Standards Regulations has been achieved and if further actions are required. The Connecticut Remediation Standards Regulations are given in the Regulations of Connecticut State Agencies Section 22a-133k-1 through Section 22a-133k-3.

The Connecticut Remediation Standards Regulations do not strictly apply to underground storage tank or spill releases unless the Connecticut Department of Environmental Protection (CT DEP) Agency's Commissioner issues a related cleanup order. Although the regulations do not strictly apply, as a matter of policy the CT DEP requires the remediation of these releases to the general standards set by the regulations.

Below, for your consideration, I detail the applicable requirements of the Remediation Standards Regulations, discuss whether the current conditions at the facility are in compliance with the regulations, and offer recommendations.

APPLICABLE REMEDIATION STANDARDS

SOILS

Direct Exposure Criteria

Polluted soil at a release area must be remediated to the applicable direct exposure criteria or background, [Regulations of Connecticut State Agencies (RCSA), 22a-133k-2(a)]. Polluted soil at a release area, except for PCB polluted soil, may be remediated to the industrial/commercial direct exposure criteria rather than the residential criteria if access to the release area is limited to workers or visitors by an appropriate environmental land use restriction [RCSA 22a-133k-2(b)(2)(A)].

The direct exposure criteria are applied to all soils to a depth of 15 feet except for "inaccessible soils" [RCSA 22a-133k-2(b)(3)]. Inaccessible soils are [RCSA 22a-133k-1(a)(28)]:

1. soils beneath a building or soils beneath other structures provided notice is given to the Commissioner,
2. soils 4 feet below ground surface, and
3. soils 2 feet below pavement;

assuming that, in each case, an environmental land use restriction is placed on that portion of the property so that the soils in such situations will not be disturbed.

The specific direct exposure criteria are given in Appendix A to the Remediation Standard Regulations (RSRs).

Determining Compliance with the Direct Exposure Criteria

Soils must be analyzed within release areas and the sampling must be representative of the release area. A release area is defined as an area where the release of a substance is above the analytical detection limit [RCSA 22a-133k-1(a)(51) and (45)].

To determine compliance with the applicable criteria in Appendix A of the RSRs, soil samples are analyzed to give the total weight of the compound in the soil sample and reported on a weight of compound/weight of soil basis.

Compliance with the direct exposure criteria is determined by the 95% upper confidence level (UCL) of the mean of the samples, taken within a release area, compared to the standard, provided no single sample exceeds two times the direct exposure criteria, or when all samples taken are below the criteria [RCSA 22a-133k-2(e)(1)].

Pollutant Mobility Criteria

The USARC facility is located in an area of GB groundwater classification. Therefore, the applicable RSRs criteria to apply to a release area are the GB pollutant mobility criteria [RCS 22a-133k-2(c)(1)(A)].

The pollutant mobility criteria in a GB area apply to all the soils above the seasonal high water table unless such soils are environmentally isolated [RCSA 22a-133k-2 (c)(1)(A) and RCSA 22a-133k-2(c)(4)(B)].

Environmentally isolated soils are those beneath a building or beneath an other permanent structure that the Commissioner has approved in writing, as long as:

1. those soils are not a continuing source of pollution,
2. are above the seasonal high water table, and
3. an environmental land use restriction is put into effect which ensures that such soils will not be exposed to infiltration of soil water [RCSA 22a-133k-1(a)(15)].

Determining Compliance with the Pollutant Mobility Criteria

To determine compliance with the TPH pollutant mobility criteria, the mass analysis of the sample is compared with the GB pollutant mobility criteria, Appendix B of the RSRs [RCSA 22a-133k-2(c)(1)(A)].

For organic substances, the mass analysis analytical result is compared to the GB pollutant mobility criteria given in Appendix B of the RSRs or the SPLP (or mass analysis result times 20) analytical result of the soil sample is compared with ten times[1] the groundwater protection criteria, RSRs, Appendix C [RCSA 22a-133k-2(c)(2)(D)].

Compliance with the pollutant mobility criteria is achieved when the 95% UCL of the mean of not less than twenty samples of soil within the release area is below the criteria and no single sample exceeds two times the applicable pollutant mobility criteria, or when all samples are below the pollutant mobility criteria after excavation [RCSA 22a-133k-2(e)(2)].

GROUNDWATER

Groundwater/Surface Water Protection Criteria

Remediation of a groundwater plume in a GB groundwater area shall [RCSA 22a-133k-3(a)]:

1. meet the requirements of the groundwater surface water protection criteria,

[1] A greater dilution factor can be used or approved under certain circumstances, 22a-133k-2(2).

2. meet the requirements concerning volatilization, or
3. meet background concentrations.

In addition, the groundwater plume shall not interfere with any existing use of the groundwater [RCSA 22a-133k-3(a)(3)], and light, non-aqueous phase liquids shall be removed in accordance with 22a-449(d)-106(f) [RCSA 22a-133k-2(g)].

Note: The groundwater protection criteria do not apply to GB-classified groundwater.

Groundwater that discharges to surface water shall meet the groundwater surface water protection criteria as given in Appendix D to the RSRs [RCSA 22a-133k-3(b)(1)]. The numerical criteria can be adjusted depending upon the flow of the plume discharge to the surface water body relative to the seven-day low flow of the surface water body [RCSA 22a-133k-3(b)(3)(a)]. Discharges to intermittent streams shall meet the applicable aquatic life criteria, Appendix D to the Connecticut Water Quality Standards [RCSA 22a-133k-3(b)(2)].

Determining Compliance with the Groundwater/Surface Water Protection Criteria

To determine compliance with the standards, the average concentration in the plume or the concentration of substances at the point where the groundwater enters the surface water body must be compared with the appropriate numerical criteria. If compliance is determined at the point where the groundwater enters the surface water body, it must also be shown that the plume concentrations are not increasing over time [RCSA 22a-133k-3(f)(2)].

Volatilization Criteria

Groundwater polluted with a volatile organic substance within 15 feet of the ground surface or a building shall be remediated to the applicable groundwater volatilization criteria. RSR Appendix E [RCSA 22a-133k-3(c)(1)].

If an industrial environmental land use restriction is placed upon the USARC property, the applicable criteria are the industrial/commercial volatilization criteria [RCSA 22a-133k-3(c)(2)].

Determining Compliance with Volatilization Criteria

Compliance is achieved when representative sampling of the plume or soil vapor is less than the applicable criteria or when the 95 percent upper confidence level of the mean of all samples is less than the applicable criteria and no sample exceeds two times the criteria for four consecutive quarterly sampling periods [RCSA 22a-133k-3(f)(3)].

COMPLIANCE DETERMINATION

SOILS

Direct Exposure Criteria

All samples taken and analyzed from the 1,000-gallon and 5,000-gallon underground storage tank graves were below the applicable residential direct exposure criteria. A sample and duplicate sample taken beneath the floor in the basement furnace room showed contamination of those soils with total petroleum hydrocarbons at a concentration in excess of the residential and industrial/commercial direct exposure criteria of 500 mg/kg and 2,500 mg/kg respectively. The direct exposure criteria do not apply to soils beneath a building or soils four feet below the ground surface as long as an environmental land use restriction has been placed on that portion of the property so that soils in such situations will not be disturbed.

Pollutant Mobility Criteria

The USARC facility is located in an area of groundwater classified as GB by the CT DEP. The results of sampling at the 1,000-gallon and 5,000-gallon underground storage tank graves showed concentrations of constituents in the soils below the applicable GB pollutant mobility criteria. Sampling of soils beneath the furnace basement floor indicated concentrations of total petroleum hydrocarbons above the applicable GB pollutant mobility criteria of 2,500 mg/kg at one location. Pollutant mobility criteria do not apply to environmentally isolated soils which are soils beneath a building as long as these soils are not a continuing source of pollution, the soils are above the seasonal high water table, and an environmental land use restriction is put into effect which ensures that the soils will not be exposed to infiltration of soil water. In addition, the pollutant mobility criteria in a GB area do not apply to soils below the seasonal high water table. Therefore, the pollutant mobility criteria do not apply to these soils as they will be environmentally isolated as long as the soils are not a continuing source of pollution and an environmental land use restriction is put into effect to ensure that these soils will be remediated if the building is removed.

We can conclude that these soils are not a continuing source of pollution because soluble volatile organics are not present; the soils are not subject to rainwater infiltration; a groundwater sample taken at the area does not show contamination above analytical method detection limits by constituents that may be present due to the release; the concentrations of constituents at the release area are near standards; and the release is limited. We know that the release is limited because a release is not evident at the underground storage tank or along the supply line to the basement wall, a release was not evident in the trench dug down below the building footing at the point where the supply line entered the basement, and a sample taken along the south wall beneath the basement furnace room floor showed minimal contamination. It appears that the observed contamination below the basement floor at the north end of the furnace basement is the result of poor housekeeping within the furnace room.

Surface Water Protection Criteria for Substances in Groundwater

The surface water protection criteria for substances in groundwater is met because:

1. there is not a surface water protection criteria for substances in groundwater for total petroleum hydrocarbons, and
2. the sampling of the groundwater and the sampling of the soils in the vicinity do not indicate concentrations in the groundwater of any substances in excess of the applicable surface water protection criteria for substances in groundwater.

Volatilization Criteria

Samples of representative soils and groundwater do not show the presence of volatile organic substances and, thus, an exceedance of the groundwater volatilization criteria is not apparent.

Note: In a phone discussion with a representative of the CT DEP's Bureau of Water Management, Permitting, Enforcement and Remediation Division it was agreed that further sampling of the groundwater by placement of monitoring wells with screens below the clay layer was not appropriate given the circumstances. A situation like this was described and it was agreed that the level of contamination above the clay layer is adequately characterized and is minimal, and therefore: the clay layer will act as an effective barrier to downward migration of contamination. The representative did suggest for this type of situation that even though the area is GB we check to make sure that the groundwater in the immediate vicinity was not used as a source of drinking water.

SUMMARY

The sampling performed at the USARC facility in Fairfield, Connecticut, in the area of the underground storage tanks and basement furnace room is representative of the observed contamination. A concentration of total petroleum hydrocarbons above the industrial/commercial direct exposure criteria and GB pollutant mobility criteria was evident in the soil at one location beneath the basement furnace room floor. The direct exposure criteria and pollutant mobility criteria do not apply to these soils as they are environmentally isolated and inaccessible in accordance with the RSRs. If the RSRs were applicable, the placement of an environmental land use restriction on this area would be required.

RECOMMENDATIONS

1. Additional investigations and/or remediation do not appear necessary.

2. Given the physical circumstances in the area of the basement furnace room, the concentration of constituents in the soil, the practical compliance with the RSRs, and because the RSRs are not applicable, an environmental land use restriction does not appear to be necessary.

Natural degradation of the contaminants should reduce the concentration of the contaminants to an acceptable concentration in a reasonable time period.

3. It should be confirmed that the groundwater in the immediate vicinity is not used as a drinking water source.

Please call me with any questions.

Sincerely,

R. W. BARTLEY & ASSOCIATES, INC.

Russell W. Bartley, PE, LEP
President
Connecticut LEP License #104

C: Todd Walles, Roy F. Weston, Inc.
File

R. W. BARTLEY & ASSOCIATES, INC.

PHONE CONVERSATION RECORD

CONVERSATION WITH: ORIGINATOR: Russell Bartley

NAME: William Warzecha DATE: September 25, 1998

COMPANY: CT DEP, Permitting, Enforcement and Remediation TIME:

ADDRESS: Division Bureau of Water Management

PHONE: (860) 424-3776

SUBJECT: Remediation Standard Regulations

NOTES:

I asked for a determination as to whether the Remediation Standard Regulations apply to an underground storage tank or spill release. He said that they did not by statute but they will require compliance as a matter of good practice.

I also discussed the circumstances of the circumstances of the U.S. Army Reserve Center as a hypothetical situation and asked if he thought groundwater monitoring wells were necessary. He said not because the GA was GB, contamination was minimal, concentration was low and the clay should act as an effective barrier. He suggested we ensure that groundwater is not used for drinking water in the immediate vicinity.

☒ FILE ☐ FOLLOW-UP BY:

FOLLOW-UP ACTION:

R. W. BARTLEY & ASSOCIATES, INC.

PHONE CONVERSATION RECORD

CONVERSATION WITH: ORIGINATOR: Russell Bartley

NAME: Jim Fitting DATE: September 29, 1998

COMPANY: CT DEP, Permitting, Enforce- TIME: _____

ADDRESS: ment and Remediation
Division, Bureau of Water Management

PHONE: (860) 424-3910

SUBJECT: Remediation Standard Regulations

NOTES:

I asked for a determination as to whether the Remediation Standard Regulations apply to an underground storage tank oil spill release. He said that they did not unless an order for remediation was issued by the Commissioner of the CT DEP.

☐ FILE ☐ FOLLOW-UP BY: _____

FOLLOW-UP ACTION: _____

U.S. ARMY RESERVE
STORMWATER POLLUTION-PREVENTION PLAN (UPDATE)
(SWP3)

1st Lt. John S. Turner USARC Facility
180 High Street
Fairfield, Connecticut
CT004

Drafted by

U.S. GEOLOGICAL SURVEY
Water Resources Division
Connecticut District

for

94th REGIONAL SUPPORT COMMAND
Devens, Massachusetts

10/1/2001

SWP3 Certification [GP-014.Section 5.(j)]
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."
Signature:
Typed name:
Title:
Telephone numbers:

Acronyms and Abbreviations	
AMSA	Area Maintenance Support Activity
ATF	Automatic-Transmission Fluid
BMP	Best Management Practice
CFR	Code of Federal Regulations
CTDEP	Connecticut Department of Environmental Protection
DCSOPS (T)	Deputy Chief of Staff, Operations (Training Division)
DRMO	Defense Reutilization and Marketing Office
ECAR	Environmental Compliance Assessment Report
GP	General Permit
ISCP	Installation Spill Contingency Plan
MEP	Military Equipment Park
MGD	Million Gallons per Day
MSDS	Material Safety Data Sheet
NPDES	National Pollutant Discharge Elimination System
NSWD	Non-Stormwater Discharge
OF	Outfalls
OMS	Operational Maintenance and Support
POL	Petroleum, Oil, and Lubricants
POV	Privately Owned Vehicles
PPM	Potentially Polluting Material
PPT	Pollution Prevention Team
RSC	94th Regional Support Command, Devens, Massachusetts
SOP	Standard Operating Procedure
SWP3	Stormwater-Pollution Prevention Plan
USARC	Headquarters - U.S. Army Reserve Command, Atlanta, GA
USEPA	U.S. Environmental Protection Agency
USGS	U.S. Geological Survey

TABLE OF CONTENTS

1.0 INTRODUCTION

The Clean Water Act of 1987 [40 Code of Federal Regulations (CFR) 122] requires Federal installations that discharge stormwater whose quality may be affected by industrial activities to implement plans to control the quality of stormwater discharges. This "*Stormwater Pollution-Prevention Plan*" (SWP3) was developed in response to these requirements. The plan identifies sources of potential pollution, describes "*Best Management Practices*" (BMPs) designed to minimize pollution through prevention and source control, and recommends actions for this facility. The SWP3 also discusses stormwater-runoff drainage, identifies point-source outfalls into local surface waters, and provides non-stormwater discharge certification of stormwater outfalls.

1.1 FACILITY PERMIT

The State of Connecticut, in which this facility is located, has National Pollutant Discharge Elimination System (NPDES) permitting authority. The State has two General Permits (GPs) for stormwater dischargers, one for the discharge of stormwater associated with industrial activity and the other for stormwater runoff and dewatering wastewater discharges from construction sites. Stormwater permitting in the State is administered by the Connecticut Department of Environmental Protection (CTDEP) Water Management Bureau, Hartford, Connecticut (Stormwater Permit Manual, Thompson Publishing Group Inc., written commun., January 1995). The CTDEP representative is Chris Stone who can be reached at (860) 424-3850.

As of December 8, 1999, the U.S. Environmental Protection Agency's (USEPA) final Phase II stormwater rule allows for a "No Exposure" exemption for facilities that have no discharges of stormwater contaminated by exposure to industrial activities. For more information about Phase II, see USEPA 64 FR 68721, Dec. 8, 1999 and call your state DEP representative.

The State of Connecticut will be adopting the USEPA "No Exposure" exemption but has not done so at this time (oral commun., Chris Stone, CTDEP, September 2001).

1.2 FACILITY DESCRIPTION

The 1st Lt. John S. Turner United States Army Reserve Center (USARC) facility (*Plates 1 & 2*) is located at 180 High Street in Fairfield, Connecticut. Private property, High Street, and Holland Hill Road border the facility. The facility was under the control of the 773rd Transportation Company of the 9th Battalion and consists of an administrative building and one three-bay Organizational Maintenance Shop (OMS) (*PLATES 3 & 4*) and three Military Equipment Parks (MEP). Since the original SWP3 plan was written, the 773rd has relocated to Fort Totten in Plains, New York. The facility is currently under the control of the 9th Battalion 4th Brigade 98th Division Institutional Training (IT) and is shared with the 325th transportation company of the 94th RSC. The facility encompasses about 5.6 acres at an approximate elevation of 80 feet above mean sea level (figure 1.2). Geographic coordinates for the facility are latitude 41°09′49″ North and longitude 073°14′34″ West. The OMS and MEP are CTDEP-regulated activities.

The OMS is currently unused and no vehicle maintenance, except occasional operator maintenance, is conducted on site according to Mr. Hines the new facility manager/coordinator. Area Maintenance Support Activity (AMSA) 69 (G) in Milford, Connecticut performs all direct support and organizational maintenance for all military vehicles stored on site.

1.3 PLAN DEVELOPMENT

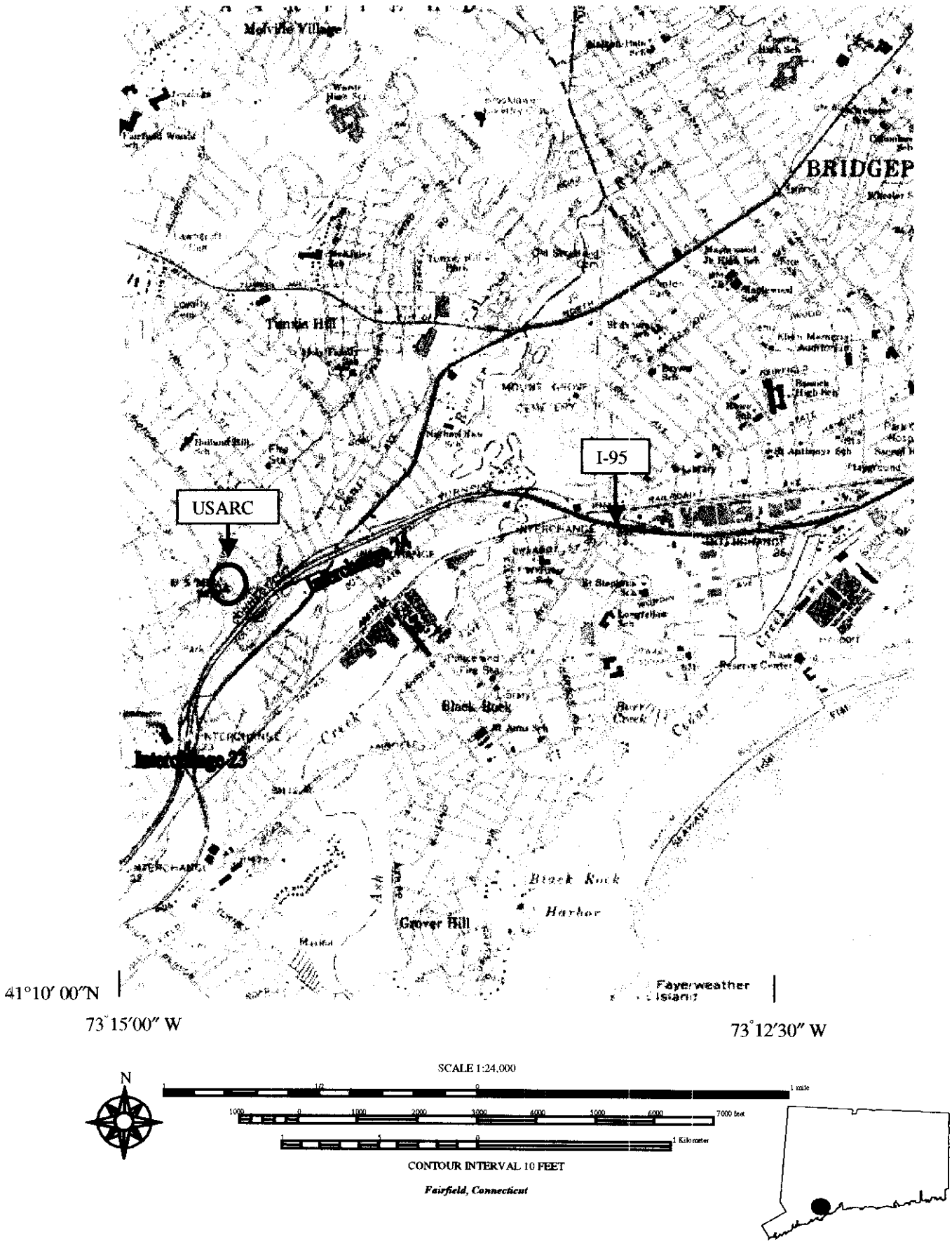
The U.S. Geological Survey (USGS), Water Resources Division (WRD), drafted this plan. Information and illustrations included in the plan were developed from site inspections and from the 94th Regional Support Command (RSC) and USGS databases.

1.4 PLAN REVISIONS

The SWP3 should be updated annually or more often, if required. Many elements of the plan are presented in maps and tables describing (i) sites where potential pollution of storm water might occur, (ii) stormwater-pollution risks from those sites to surface waters of the State, and (iii) BMPs that prevent or control stormwater pollution. Detailed notes and sketches should be made during periodic stormwater inspections to facilitate the annual plan revision.

1.0 Introduction...*continued*

Figure 1.2 – Location Map (source: USGS)



2.0 POLLUTION-PREVENTION TEAM [GP-014.Section 5(b)(6)(A)]

The Pollution-Prevention Team (PPT) is responsible for implementing and evaluating the effectiveness of the SWP3 at this facility. Personnel should be officially appointed to the team. Table 2.0 lists the members of the PPT and shows their respective duties. Additional members may be appointed to the PPT as needed.

Table 2.0—Pollution-Prevention Team Members and Duties.

Team member	Duties
94th Regional Support Command – Chief Environmental Division (978) 796-3169	• Reviews and approves the SWP3 and any modifications or updates to the plan in coordination with State and Federal regulators. • Provides guidance and information as requested. • Performs annual site compliance inspection.
Reserve Center Regional Facility Manager (Connecticut) (860) 627-2462	• Reviews and approves the SWP3 and any modifications or updates to the plan.
1st Lt. John S. Turner USARC Facility Manager/Coordinator (203) 256-9493	• Implements the stormwater pollution-prevention program at the facility. • Schedules meetings of the PPT. • Sign documents and certificates required in the SWP3. • Prepares cost estimates for implementation plans for advanced and baseline BMPs at the facility. • Submits requisitions and work orders and promotes self-help initiatives. • Reviews monthly stormwater-inspection checklists. • Serves as backup emergency-response spill coordinator for the facility. • Informs Commanding Officer and 94th RSC of problems and equipment and training needs.
OMS Maintenance Administrative Technician (None at this facility)	• Assists Facility Coordinator with implementation of the SWP3 at the facility, including plans for equipment, construction, and training. • Serves as official emergency-response spill coordinator for the facility. • Conducts monthly stormwater inspections and files inspection reports. • Inspects hazardous material and waste-storage areas, updates records on those areas, monitors waste generation, and monitors the transfer of such materials among units. • Ensures that OMS and reserve personnel implement good housekeeping, preventive-maintenance, and spill-prevention practices at the motor pool.

3.0 ASSESSMENT [GP-014.Section 5(b)(6)(B)]

As required by the Connecticut General Permit for the Discharge of Stormwater Associated with Industrial Activity, the site assessment includes a description of potential sources of pollutants that may affect stormwater discharges or which may cause the discharge of pollutants during dry weather from the facility. All activities and materials that may be potential pollutant sources are identified. Pollutant sources are referenced to stormwater outfalls to aid in conducting the risk assessment, implementing BMPs, and updating the SWP3.

3.1 SITE MAP [GP-014.Section 5(b)(6)(B)(i)(1)]

The CTDEP stormwater regulations require that a facility site map be developed as part of the SWP3. Required elements of the map include locations of industrial activities, stormwater structures, and the directions of stormwater runoff. The site map (figure 3.1) shows primary stormwater-runoff directions, outfalls, and the location of buildings and facilities. Stormwater-control structures, pollutant sources, and areas at high risk for pollution are labeled with site map codes.

3.2 DRAINAGE [GP-014.Section 5(b)(6)(B)(i)]

Site observation at this USARC property identified two stormwater outfalls (OF-1 and OF-2) that could be subject to CTDEP stormwater regulations (*PLATES 20 and 14*). OF-1 is in the eastern corner of the facility and serves to drain the paved MEP Parking 1, behind the OMS. Stormwater flows off the paved parking lot to the low-lying area at the southeastern border of the facility (*PLATE 20*) and exits through OF-1.

The outfall designated OF-2 (**site 7**; *PLATE 14*) discharges stormwater runoff collected from the majority of the facility. All paved parking areas on site, except MEP Parking 1 behind the OMS, direct flow to OF-2. MEP Parking 2 on the north side of the facility drains southerly into a drainage trench that directs flow into a storm-drain distribution box (**site 6**, *PLATE 15*). The flow is directed into a 12" conduit that conveys the water to a storm-drain access box (with manhole) (**site 12**) and then to the storm-drain invert at OF-2. The lot labeled Privately Owned Vehicles (POV) Parking lot 3 on the site map of the original SWP3 plan has since been converted to a military vehicle parking area MEP 3 (figure 3.1, *PLATE 11*) and drains to the southern corner of the lot. Runoff is directed to a bituminous storm-drain trench with a culvert (**site 13**, *PLATE 19*). Runoff then flows into the storm-drain access box (with manhole) (**site 12**) and exits the facility through OF-2. POV Parking 4 drains into an invert (**site 10**, *PLATE 17*), which then directs flow into the storm-drain access box (with manhole) (**site 12**) and then through OF-2.

OF-2 flows into the municipal storm-sewer system, the municipal system then discharges into a small stream that feeds into the duck pond at nearby Gould Manor Park. Outflow from the duck pond is then piped by way of the town storm-sewer system until it discharges into Ash Creek, near Old Post Road. Ash Creek discharges into Long Island Sound at the South Benson Marina (oral commun. Engineering Department, Town of Fairfield).

3.3 STRUCTURES [GP-014.Section 5(b)(6)(B)(i)(1)]

Stormwater runoff at the Fairfield USARC is controlled by numerous stormwater structures. These include drainage trenches, stormwater inverts, and stormwater access boxes (w/ manholes). Flows from these structures discharge into the municipal storm-drain system. This facility does not have a washrack and there is no evidence of an oil/water separator onsite.

3.0 Assessment...*continued*

3.4 POTENTIALLY POLLUTING MATERIALS [GP-014.Section 5(b)(6)(B)(i)]

Exposed Potentially Polluting Materials (PPMs) include any hazardous materials that contact precipitation and/or stormwater runoff during storage, active use, or loading/unloading. A lack of cover and containment during loading/unloading or storage of PPMs commonly causes exposure to stormwater. The hazardous-materials inventory at the facility has been reduced to minimal quantities required for operator maintenance of vehicles. The inventory should be continuously updated and include the locations of the materials and approximate quantities on hand.

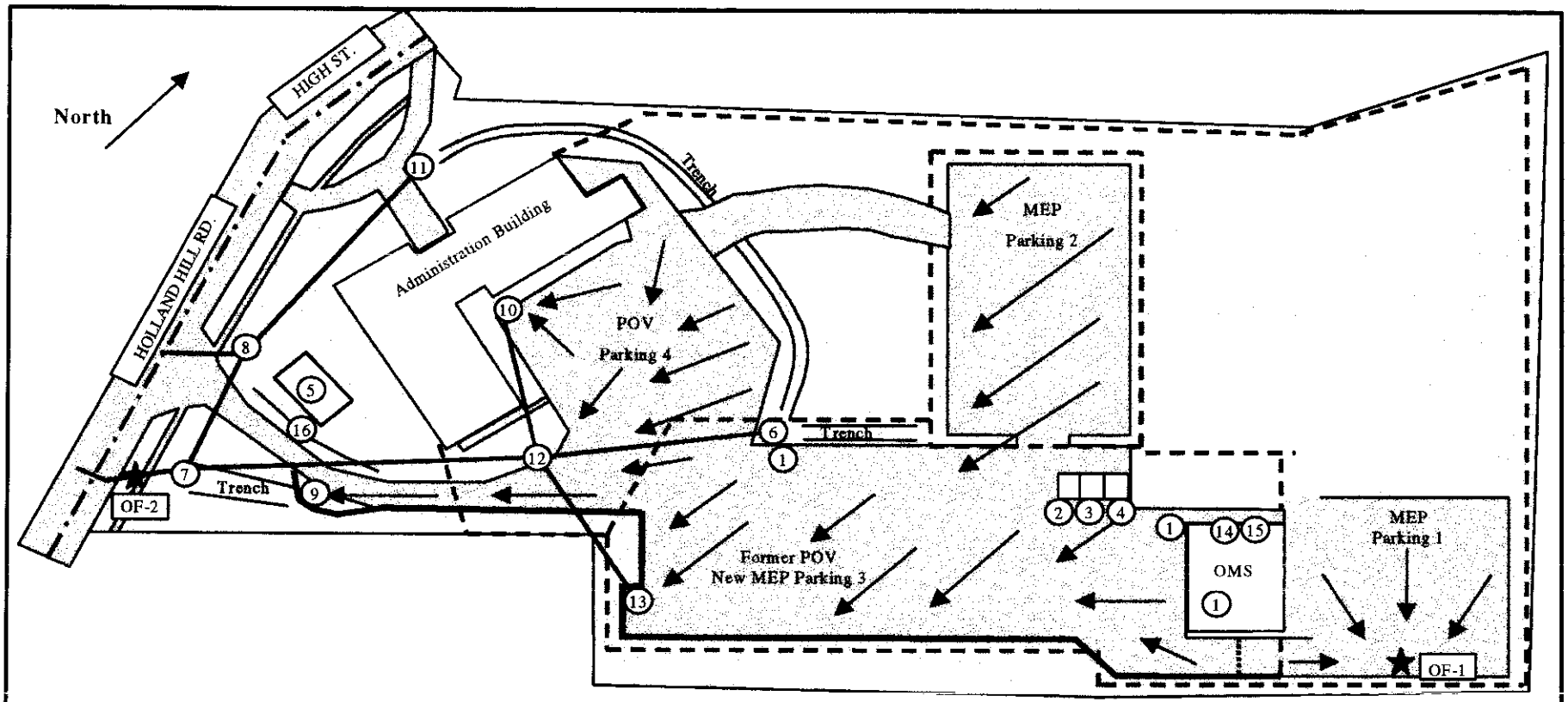
3.5 POTENTIAL SOURCES OF POLLUTANTS [GP-014.Section 5(b)(6)(B)(ii)]

An inventory of areas at the 1st Lt. John S. Turner USARC facility, where industrial activities could potentially pollute stormwater runoff, was compiled from facility plans, staff interviews, and field reconnaissance. There are no pollutant sources at the facility that are directly related to vehicle maintenance, or loading and unloading of PPMs exposed temporarily or stored permanently. The only potential pollutant source is from possible leaks from military vehicle parking in the MEPs. No significant fueling is conducted onsite.

No vehicle and equipment maintenance is performed inside the OMS building (*PLATES 3 & 4*). Vehicle maintenance that involves the exchange of fluids is not conducted in the parking areas. Only occasional operator maintenance such as topping off fluids is performed onsite. The AMSA 69 (G) in Milford, Connecticut performs significant repairs and maintenance that involves fluid changes.

The small quantities of new PPMs used for operator maintenance operations at the facility are stored in one of two flammables storage cabinets inside the OMS (**sites 14, 15**; *PLATES 7, 8*). The three-door double-floored petroleum, oil, and lubricant (POL) shed in the MEP 3 parking area is currently unused (**sites 2-4**, *PLATE 10*). Materials stored at these locations are fully protected from precipitation and stormwater runoff during storage.

The 1st Lt. John S. Turner USARC facility is considered to be a conditionally exempt, small-quantity hazardous-waste generator by the CTDEP and has been issued a generation number (CVS024248900). No waste PPM's are accumulated at this facility at the present time. AMSA 69 (G) in Milford, Connecticut performs all necessary maintenance on military vehicles stored at this facility.



SITE MAP CODE GUIDE

1. Spill Kits
2. POL Shed, Bay 1
3. POL Shed, Bay 2
4. POL Shed, Bay 3
5. Water Meter Box
6-9. Storm-drain Inverts
10-11. Inverts
12. Storm-drain Access Box (w/ manhole)
13. Storm-drain Trench with Culvert
14-15. Flammable Materials Cabinets
16. Area of Soil Erosion

KEY

Building
Vegetation
Paved
Storm Water Runoff
Security Fence
Drainage Divide
Storm Drain
Storm-sewer Line
Bituminous Curb
Outfall OF-1

FIGURE 3.1 - USARC - CT004 Site Map

Not to scale 8/29/01

Drafted by Remo A. Mondazzi, Hydrologist

Reviewed by Emitt C. Witt, Supervisory Hydrologist

3.0 Assessment...*continued*

3.6 SIGNIFICANT SPILLS AND LEAKS [GP-014.Section 5(b)(6)(B)(iii)]

There have not been any significant (reportable) spills or leaks during the last three years at the 1st Lt. John S. Turner USARC facility, according to facility personnel.

3.7 NON-STORMWATER DISCHARGES [GP-014.Section 5(b)(6)(B)(viii)]

Unauthorized connections discharging pollutants to stormwater runoff or inappropriate management practices result in non-stormwater discharges (NSWDs) to stormwater-sewer systems, open drainage ditches, and outfalls. Sources of unauthorized NSWDs must be identified and permitted, or eliminated, except for flows in compliance with another NPDES permit. Stormwater pollution prevention measures should be adopted and implemented where necessary to minimize pollutants in these discharges.

Outfalls OF-1 and OF-2 were observed for NSWDs on August 27, 2001, as part of the 1st Lt. John S. Turner USARC facility site assessment update conducted by the USGS. No dry-weather inflows to the stormwater system were noted. A NSWD certification is provided in the Appendix (table 6.0). The Facility Coordinator must sign the certification.

3.8 STORMWATER-MONITORING DATA [GP-014.Section 5(c)]

At the time of assessment, there was no knowledge of existing stormwater-quality data. There are currently no plans to collect stormwater-quality data at 1st Lt. John S. Turner USARC facility. Sampling of stormwater, if required, should be conducted at regulated outfalls as mandated by CTDEP. Stormwater sampling and analysis must be performed by qualified individuals adhering to a specific quality assurance/quality control program. Stormwater monitoring is currently not required for vehicle-maintenance activities in U.S. Environmental Protection Agency (USEPA) regulated states and most states with NPDES permitting authority like Connecticut.

3.9 RISK SUMMARY [GP-014.Section 5(b)(6)(C)(vi)]

An initial assessment of areas at this USARC facility with a potential for pollution from stormwater runoff has been prepared as part of the SWP3 update. The assessment should be considered a "snapshot" in time and must be updated annually or more often, as necessary. The following narratives summarize conditions observed during the August 27, 2001 site assessment. Sites identified as having a potential for stormwater pollution are listed in table 3.9. Locations of these sites are shown in figure 3.1.

ORGANIZATIONAL MAINTENANCE AND SUPPORT

No organizational maintenance is currently conducted at this facility. AMSA 69 (G) in Milford, Connecticut performs all organizational and direct support maintenance for military vehicles stored on site.

All small quantity PPMs used at the shop for occasional operator maintenance are stored in two flammable materials storage cabinets inside the shop (*PLATES 7 and 8*). PPMs stored inside the flammables cabinets are doubly contained and fully protected from precipitation and stormwater runoff and therefore have very little chance of becoming stormwater pollutants. There are no floor drains inside the OMS building.

3.0 Assessment...*continued*

The shop has adequate workspace that is kept in a neat and orderly manner, with spill-response materials readily available. An over-pack barrel containing a spill response kit was centrally located in the work bays (**site 1**; *PLATE 6*). Barrels filled with speedy dry were noted at a few locations through out the shop. Material Safety Data Sheets (MSDS) and Right To Know information were present in the safety area (*PLATE 5*). A recommended BMP is to post the following at the safety board or have readily available; Hazardous Material/Waste Handling Plan, Environmental Compliance Assessment Report (ECAR), Installation Spill Contingency Plan (ISCP), Spill Standard Operating Procedures (SOP), Hazardous Material/Waste Handling SOP, Maintenance SOP, Washrack Operators Manual, Washrack/Oil-Water Separator Servicing Records, Updated Hazardous Materials Inventories, Hazardous Waste Tracking System, and Hazardous Waste Removal and Disposal Contract and Correspondence.

A small, wet POL stain was observed under the military vehicle that was parked inside the OMS at the time of the site assessment. A number of small spill absorbent pans were observed in the shop area but not under the vehicle. It is recommended that a visual inspection be conducted of all military vehicles on site daily and that drip absorbent pans be placed under vehicles with observed leaks.

The OMS shop posses a low risk to the surface waters of the State of Connecticut. Only very small quantities of PPMs are stored inside the shop. Adequate spill-response equipment is located within the shop. The most significant risk to stormwater from this area would be an undetected vehicle leak from inside the shop that eventually discharges to OF-2.

MILITARY EQUIPMENT PARK AREAS

Four parking areas exist on-site, three MEPs and one POV areas. Parking areas 1, 2 and 3 are secure MEPs located in the rear and center of the facility, and parking area 4 is for privately owned vehicles and is situated behind the administrative building (figure 3.1). A new driveway has been added in the north side of the facility connecting POV parking area 4 and MEP parking area 2 (figure 3.1). The MEP areas are used for the storing of military vehicles and equipment. At the time of assessment, eleven military vehicles were located in the new MEP parking area 3 (*PLATE 11*) and one vehicle was located inside the OMS shop. A small wet POL stain was observed under one vehicle in MEP parking area 3 during the site assessment. It is recommended that a visual inspection be conducted of all military vehicles in the MEP parking areas daily and that drip absorbent pans be placed under vehicles with observed leaks.

The contents of the one triple bay POL shed located in MEP parking area 3 (**sites 2-4**, *PLATE 10*) could not be determined at the time of site assessment. The regional facility manager will do a follow-up inspection and process any PPM disposal documents as needed. This shed protects stored materials from precipitation and stormwater runoff. However, PPMs have the potential to become stormwater pollutants during loading and unloading for use or accumulation. The area outside the POL shed drains onto POV parking 3, which drains the storm-drain system through OF-2. The POL shed is located on a paved surface. Observed BMPs include secondary containment in the storage areas. Facility staff should ensure that regular visual inspections are conducted in these chemical/waste storage areas.

The facility has undergone significant site upgrades and modifications. A driveway was added and parking lots and driveways re-graded and re-paved.

3.0 Assessment...*continued*

The parking areas pose a low risk to the surface waters of the State of Connecticut, due primarily to *potential leaks from vehicles and equipment. All OMS personnel should be trained in proper house* keeping and spill control/response.

3.0 Assessment...*continued*

Table 3.9--Risk summary.

Site map code	Location	Regulated activity	Potentially polluting materials	Outfall/ Receiving waters	Exposure type[1]	Rating/ Reason[2]
14,15	OMS	PPM usage/storage	New POL, POL leaks	OF-2, Ash Creek	E	Low /a, d
--	MEP Parking 1, 2 and 3	Vehicle/equipment parking	POL leaks	OF-1, OF-2, Ash Creek	E	Low /a, f
2, 3, and 4	MEP parking 3	PPM Storage/Loading	Used POL	OF-2, Ash Creek	E	Low / h

[1] **Exposure type:**

A No exposure to precipitation or stormwater runoff
B Direct exposure to precipitation due to lack of covering during storage
C Direct exposure to stormwater runoff due to lack of containment during storage
D Some indirect exposure to precipitation due to a lack of walls
E Direct exposure to precipitation and runoff due to spills/leaks during storage
F Direct exposure of washrack drainage devices to storm runoff due to lack of cover

[2] **Rating/Reason key:**

a Lack of preventive maintenance and visual inspection program
b Lack of containment, preventing exposure to stormwater runoff
c Lack of covering, preventing exposure to precipitation
d Lack of employee training and/or awareness
e Lack of spill kits, drip pans, sorbent, and/or other spill equipment
f Proximity to floor drain inlet or other conveyance
g Not a point-source discharge to surface waters of the State
h Potential for spills/leaks to exposed areas during material transfer
i Not regulated industrial activity

4.0 BEST MANAGEMENT PRACTICES PLAN [GP-014.Section 5(b)(6)(C)]

Best Management Practices (BMPs) are measures and controls that can reduce potential stormwater pollution from industrial-activity pollutant sources. These BMPs are classified, as "*baseline*" or "*advanced*" and they may be either inexpensive or costly to implement. Baseline BMPs include inspection programs and a contingency plan that attempts to identify and eliminate conditions and practices that could cause stormwater pollution. Advanced BMPs are techniques, equipment, or structures that eliminate contact between stormwater runoff and PPMs.

In the following sections, foundations are established for a BMP's program at the 1st Lt. John S. Turner USARC facility. Baseline and advanced BMPs necessary for the implementation of the facility stormwater program are discussed and listed in table 4.0. The stormwater inspection checklist in Section 5.0 should be used to monitor potential problems and to select BMPs.

4.1 BASELINE BEST MANAGEMENT PRACTICES

Baseline BMPs are relatively simple inspection programs and contingency plans that are implemented at a facility. The Maintenance Administrative Technician will perform monthly stormwater inspections. The 94th RSC is responsible for updating the spill plan, ensuring that motor pool personnel receive environmental training, and conducting an annual compliance inspection of the facility. The following baseline programs are briefly discussed in this chapter and are included in the stormwater inspection checklist provided in table 5.1b.

4.1.1 Good Housekeeping [GP-014.Section 5(b)(6)(C)(i)]

Good housekeeping addresses cleanliness and orderliness of work and storage areas. Practicality guides the appropriate implementation of good-housekeeping practices.

4.1.2 Preventive Maintenance [GP-014.Section 5(b)(6)(C)(v)]

Preventive maintenance involves an inspection of all vehicles and equipment for conditions that could lead to leaks or spills of PPMs. A technical inspection for fluid leaks or drips should be done for all incoming vehicles and equipment. Vehicles and equipment stored at the facility should be inspected daily for fluid leaks and drips. Maintenance equipment, oil/water separators (when present), storage tanks and drums, pipes, and pumps should be included in the technical inspection.

4.1.3 Spill Prevention and Response [GP-014.Section 5(b)(6)(C)(vi)]

The facility spill plan should be reviewed and revised by the 94th RSC for the 1st Lt. John S. Turner USARC facility. The Maintenance Administrative Technician has the responsibility to serve as emergency coordinator in the event of a spill. The Facility Coordinator should be designated as emergency-response spill coordinator at the facility when the Maintenance Administrative Technician is not present. The Maintenance Administrative Technician (or alternate) has the responsibility to ensure the spill is immediately contained, proper spill reporting procedures are followed, and the 94th RSC is immediately informed.

4.0 Best Management Practices Plan...*continued*

4.1.4 Visual Inspections [GP-014.Section 5(b)(6)(D)(i)]

A formal visual-inspection program is used to ensure that good housekeeping and preventive maintenance are being actively practiced, and that spill plan and spill-containment equipment are readily available at the facility. The Maintenance Administrative Technician or Facility Manager should conduct a monthly visual inspection of the motor pool using the stormwater-inspection checklist. The 94th RSC should perform annual compliance inspections using the stormwater-inspection checklist.

4.1.5 Sediment and Erosion Control [GP-014.Section 5(b)(6)(C)(iv)]

The Connecticut General Permit requires identification of areas having a high potential for significant soil erosion and selection of measures (BMPs) to mitigate soil loss. During the August 27, 2001 site visit, soil erosion was observed along the north side of the entrance driveway caused by stormwater runoff from the driveway and POV parking area 4 (**site 16**, *PLATE 21*). An attempt made to control the erosion with sandbags appears ineffective. A recommended permanent solution to stop the erosion would be to install bituminous curbing along the north side of the driveway to direct stormwater away from the eroded area and seed the affected area with grass seed.

4.1.6 Environmental Training [GP-014.Section 5(b)(6)(C)(vii)])

Headquarters, U.S. Army Reserve Command (USARC) has developed a video-based stormwater-training package. Annual stormwater training is mandated by the Deputy Chief of Staff, Operations (Training Division) [DCSOPS (T)] for all reservists assigned to a facility with a stormwater permit. All civilian personnel who work within regulated areas also are required to attend this training. The training, using several videos supplied by the USARC, can be implemented in two or more sessions during the year.

4.2 ADVANCED BEST MANAGEMENT PRACTICES

Advanced BMPs are techniques, equipment, structures, or construction practices that prevent hazardous materials or wastes from reaching the environment in stormwater runoff. All Army Reserve maintenance facilities employ advanced BMPs. Implementation of new advanced BMPs or maintenance and upkeep of existing advanced BMPs usually requires requisitions, work orders, or self-help initiatives. Identification, implementation, and upkeep of advanced BMPs involve communication among the Facility Coordinator, Maintenance Administrative Technician, shop personnel, senior officers, and 94th RSC staff. The Facility Coordinator has the responsibility to work with OMS, unit, and 94th RSC personnel to identify needed advanced BMPs and provide proper maintenance and upkeep for existing advanced BMPs. Also, the Facility Coordinator has the responsibility to inform senior officers of advanced BMP needs, and to submit and follow up on requisitions and work orders for those BMPs selected.

Table 4.0 details the status of the BMP program at the facility. Baseline and advanced BMPs can be prioritized according to need and scheduled by the PPT. "Recommended" BMPs in Table 4.0 should be endorsed by the PPT as goals for 2002. The Facility Coordinator should initial and date the block indicating that the recommended BMP is accepted and is being implemented.

4.0 Best Management Practices Plan...*continued*

Table 4.0—Best Management Practices.

Best management practice (BMP)	BMP type[1]	Implemented	Recommend improvement	Implemented by	Implementation date
Keep work areas and outside areas clean, free of easily spilled materials, and free of sediment and loose soil	GH		X		
Ensure that facility maintenance and PPM storage buildings are in good condition	GH	X			
Perform maintenance at authorized areas	GH	X			
Clean spilled materials with dry sweep or rags, not with water	GH	X			
Enforce proper handling, storage, disposal, and labeling of new and used PPMs	GH	X			
Maintain updated MSDSs and PPMs inventory	GH	X			
Post good-housekeeping visual aids at the motor pool	GH		X		
Provide technical inspection for all incoming and parked vehicles and equipment with particular emphasis on fluid leaks	PM/VI		X		
Ensure that an updated spill plan, emergency coordinator, and spill equipment are available at the facility during working hours	SPR		X		
During off- duty hours, in the event of a significant spill or leak, the designated spill coordinator should refer to the spill plan	SPR		X		
Provide formal training in emergency spill response to all military and civilian maintenance personnel	SPR/TG		X		
Ensure that outdoor-storage structures provide secondary containment and prevent contact between PPMs and stormwater	SPR	X			
Conduct a monthly visual inspection of the motor pool using the stormwater-inspection checklist. Sign, date, and retain with SWP3	VI		X		
Identify conditions that could cause stormwater pollution and report potential problems to the 94th RSC	VI		X		
Perform an annual stormwater compliance inspection	VI		X		
Provide stormwater training for all military and civilian maintenance personnel	TG		X		
Requisition drip pans for use at MEP (if review of the number of available drip pans makes this necessary)	ABMP		X		

[1]BMP type:

GH	Good Housekeeping	SPR	Spill Prevention and Response	SEC	Sediment Erosion and Control	BBMP	Baseline Best Management Practice
PM	Preventive Maintenance	VI	Visual Inspections	TG	Training	ABMP	Advanced Best Management Practice

5.0 IMPLEMENTATION [GP-014.Section 5(b)(6)(D)]

This section establishes inspection and record keeping programs that will bring the facility into compliance. Included in this chapter are a guide for implementing a stormwater program, a stormwater-log sheet for record keeping, a stormwater-inspection checklist to be used when performing monthly and annual stormwater inspections, and an annual compliance schedule. Table 5.0 presents key elements required to implement and evaluate the stormwater-management program. Columns for approval and scheduling of such activities by senior officials are provided in Table 5.0.

Table 5.0--Key elements to implement and evaluate the stormwater-management program.

Element to implement stormwater program	By	Date
Assign top priority to: (1) correct problems identified during the initial site assessment; and (2) establish a stormwater inspection and personnel training program.		
Record significant stormwater management activities on the stormwater log sheet.		
The Maintenance Administrative Technician will perform monthly inspections. Any problems identified will be reported to the Facility Coordinator for corrective action. If the Facility Coordinator cannot correct the problem, recommendations for corrective actions will be made to the 94th RSC.		
Monthly inspection checklists will be reviewed, signed and dated by the Facility Coordinator, and filed by the Maintenance Administrative Technician for future reference by compliance inspectors.		
Periodic stormwater inspection reviews will be performed by the 94th RSC. Recommended corrective actions and employee training needs should be discussed.		
The Facility Coordinator should discuss equipment, construction, and training needs with the Maintenance Administrative Technician, senior officers and the 94th RSC. The Facility Coordinator should submit requisitions and work orders through proper channels.		
Employee training should be conducted.		
Advanced BMPs should be implemented.		
Personnel from the 94th RSC will conduct the annual compliance evaluations for the stormwater-management program and stormwater plan reviews.		

5.1 STORMWATER-LOG SHEET AND -INSPECTION CHECKLIST [GP-014.Section 5(b)(6)(D)(ii)]

The stormwater-log sheet (table 5.1a) and stormwater-inspection checklist (table 5.1b) for motor pool operations are provided on the following pages. The log sheet and checklist are a permanent record of stormwater-management activities conducted at this facility. Items such as stormwater inspections, PPM spills, or activities related to implementation and maintenance of BMPs should be recorded on the log sheet. The inspection checklist is designed to reinforce the existing BMP program by assessing the effectiveness of implemented measures and controls. Regularly (monthly) updating logs and checklists will aid the facility in tracking pollutant sources, risks, and BMPs. The original documents should be signed and dated, and kept with the SWP3 at the facility for future reference during plan revisions or inquiries by 94th RSC, State, or Federal inspectors.

5.0 Implementation...*continued*

Table 5.1a—Stormwater-log sheet.

Date	Initials	Narrative
Example: 1-1-98	EFD	PPM spill occurred at waste-oil AST. Twenty gallons spilled and 12 gallons recovered. Remaining spillage drained into sanitary sewer system.

5.0 Implementation...*continued*

Table 5.1b—Stormwater-inspection checklist.

Unit name:	Building name:	Date:
Problems noted:		
Inspector's name:	Signature:	

Yes	No	Type Inspection item
		Do you see any evidence of recently spilled materials, either solid or liquid?
		Are PPMs exposed to precipitation or stormwater runoff?
		Are drums, PPM storage structures, and secondary-containment units secure and properly labeled?
		Is a contract in place for the proper collection and disposal of spent PPMs generated at the OMS_____?
		Are vehicles and equipment stored outdoors free of excessive mud and dirt?
		Do you see excess trash, unswept or cluttered work areas, or materials that can be easily spilled?
		Are there spots, pools, or other traces of PPMs on the ground?
		Do you see any leaking vehicles, drums, tanks, dumpsters, or other equipment?
		Does standing water have oil sheening or discoloration?
		Does vehicle/equipment washing or steam cleaning occur at this facility?
		Is an updated spill plan or SOP posted on the shop bulletin board?
		Is spill-containment equipment readily accessible?
		Are monthly visual inspections performed and documented?
		Does stormwater runoff enter and cause problems inside shop and storage buildings?
		Is there any active soil erosion at the motor pool?
		Are there areas of standing water at the motor pool?
		Are any non-stormwater discharges entering the stormwater-sewer system or drainage ditches?
		Do outdoor PPM storage structures prevent contact with precipitation or stormwater runoff?
		Are secondary-containment units in use at new and used PPM storage areas?
		Are drip pans in use at the motor pool? Estimated percentage of vehicles with drip pans: _____%.
		Are connex boxes or milvans used to store new or used PPMs at this motor pool? If yes, please give the number of connex boxes or milvans in use: _____
		Are visual aids such as stormwater posters and warning signs displayed at this OMS?
		Is environmental training provided for personnel working at the OMS?

Corrective actions needed:		
Reviewer's name:	Signature:	Date:

5.0 Implementation...*continued*

5.2 ANNUAL COMPLIANCE INSPECTION [GP-014.Section 5(b)(6)(D)]

The SWP3 should be updated annually or more often, as required. The 94th RSC is charged with conducting compliance evaluations and updating the plan. Major tasks include (i) reviewing updated site information (including stormwater-log sheets and -inspection forms); (ii) re-inspecting industrial-activity and pollutant-source areas and outfalls; (iii) updating information about those areas and the PPMs inventory; (iv) conducting non-stormwater discharge inspections of outfalls; (v) reevaluating the use of BMPs and recommending additional controls (if necessary); and (vi) convening the PPT to review stormwater issues and problems. The compliance update also allows the PPT to assess and update training needs. Table 5.2 provides information on conducting the evaluations.

Table 5.2--Annual compliance schedule.

Compliance element	Conducted by	Start date	Completion date
Review monthly stormwater-inspection checklists completed by the Maintenance Administrative Technician			
Review site assessment in SWP3 and update as necessary (outfalls, sources, PPMs, site map)			
Review implementation status of BMPs in SWP3 and update as necessary			
Based on updates to implemented BMPs, update recommended BMPs			
Review and update regulatory information in the SWP3 if necessary			
Conduct NSWD assessment and certification			
Conduct stormwater sampling of regulated outfalls if required. (Consult CTDEP and Connecticut General Permit for information.)			
Complete report of compliance findings and sample results, and file			

6.0 APPENDIX

Table 6.0--Non-stormwater discharge certification.

Non-stormwater discharge assessment and certification			Completed by: Agency: Date:		Remo Mondazzi, CT USGS-WRD 27 August 2001	
Date of test or evaluation	Outfall directly observed during the test	Method used to test or evaluate discharge	Describe test results for the presence of non-stormwater discharge	Identify potential significant sources	Agency conducting test or evaluation	Recommended action
08/27/01	OF-1	Visual	No NSWD	NA	USGS, CT	NA
08/27/01	OF-2	Visual	No NSWD	NA	USGS, CT	NA

I certify that periodic NSWD inspections will be performed at 1st Lt. John S. Turner USARC Facility and conducted in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information that is collected. Additionally, I certify the NSWD information listed in this table is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name and Title of Certifying Authority	B. Area Code and Telephone Number
C. Signature Certifying Authority	D. Date Signed

6.0 Appendix...*continued*

Figure 6.0—Photolog.

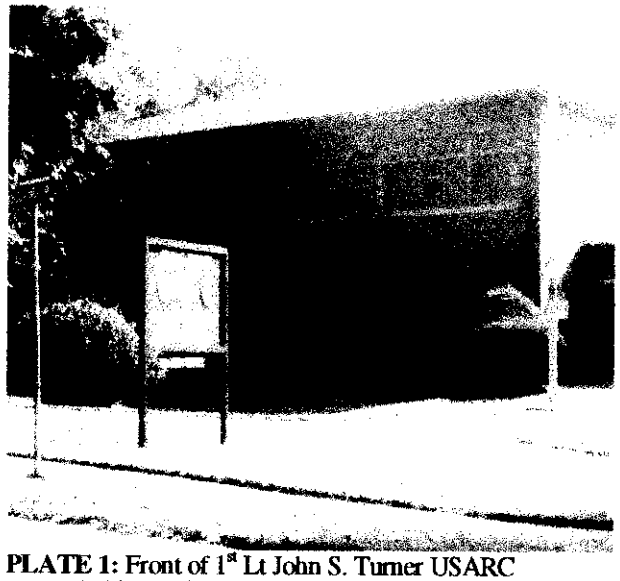


PLATE 1: Front of 1st Lt John S. Turner USARC

PLATE 2: Front entrance gate into facility

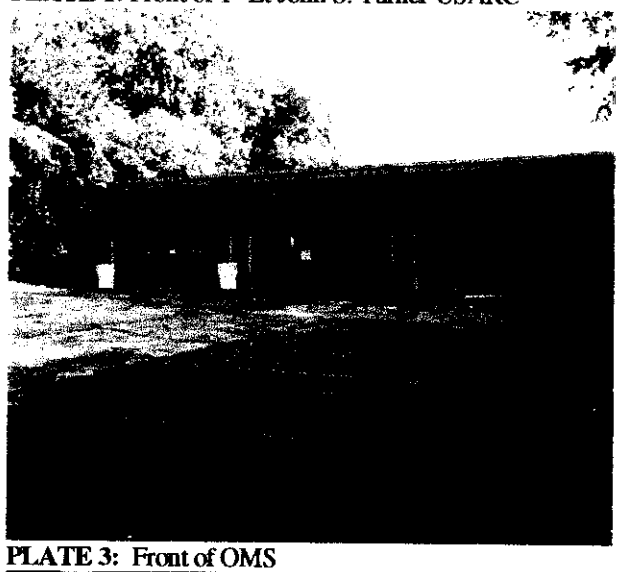


PLATE 3: Front of OMS

PLATE 4: Rear of OMS, scrap security cage sections

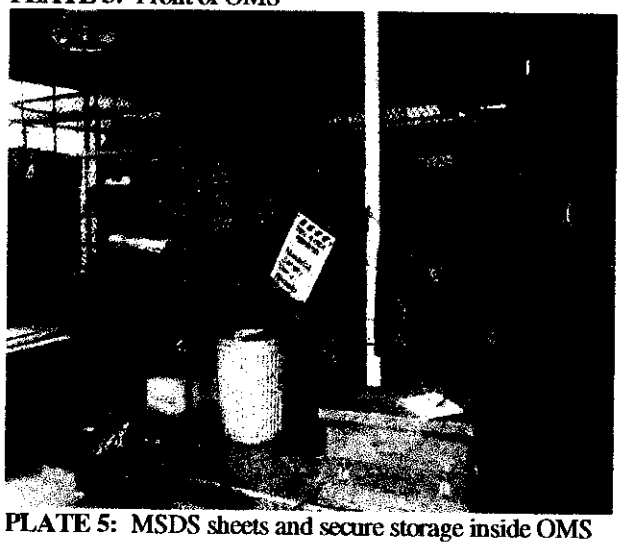


PLATE 5: MSDS sheets and secure storage inside OMS

PLATE 6: Spill response kit inside OMS (site 1)

6.0 Appendix...*continued*

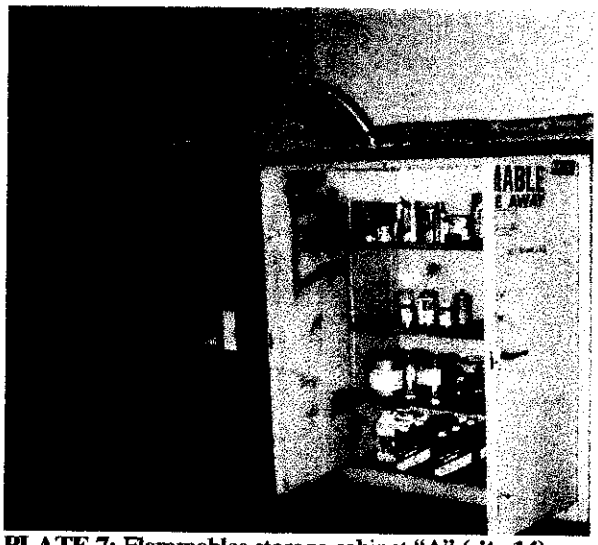


PLATE 7: Flammables storage cabinet "A" **(site 14)**

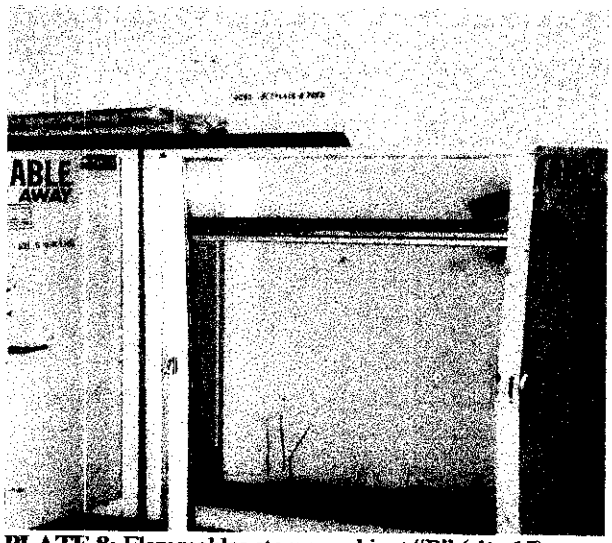


PLATE 8: Flammables storage cabinet "B" **(site 15)**

PLATE 9: Unused parts washer, storage in OMS

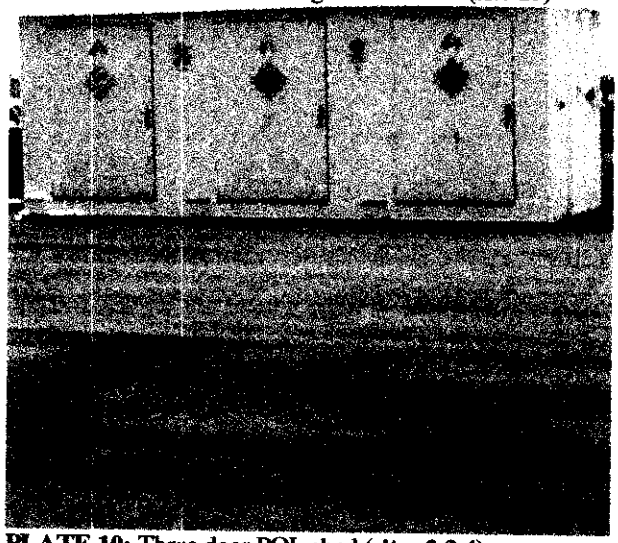


PLATE 10: Three door POL shed **(sites 2,3,4)**

PLATE 11: MEP Parking lot 3

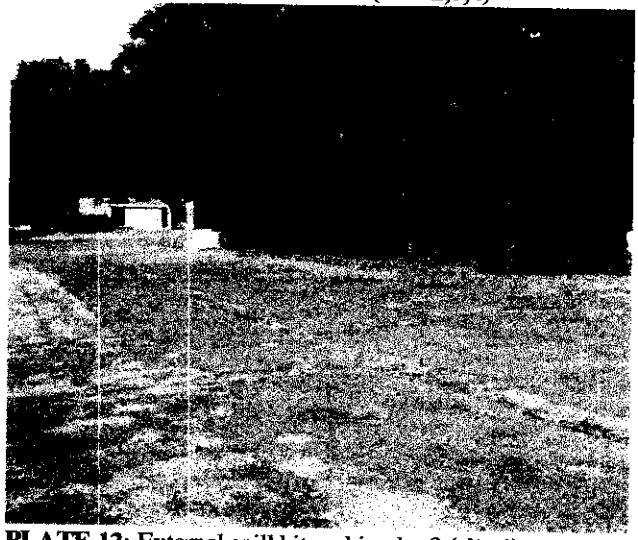


PLATE 12: External spill kit parking lot 3 **(site 1)**

6.0 Appendix...*continued*

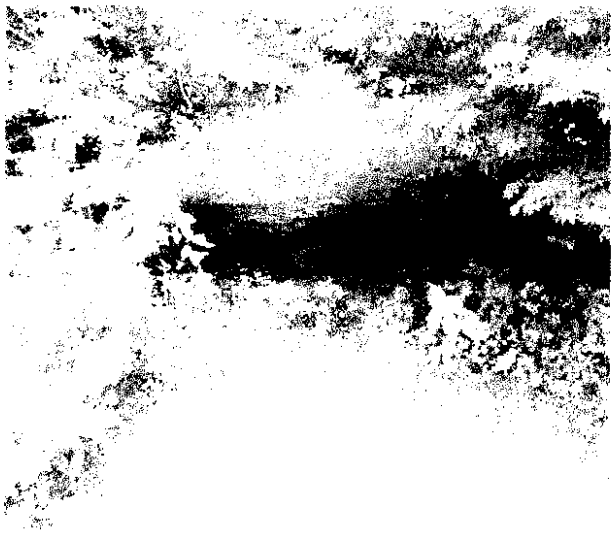


PLATE 13: Water-meter box **(site 5)**

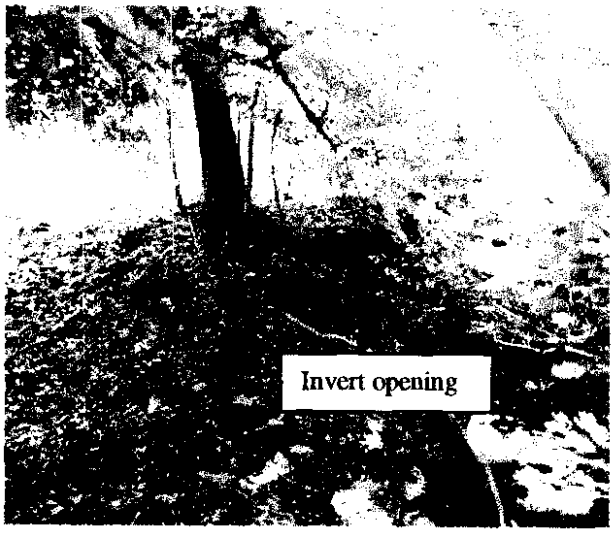


PLATE 14: Storm-drain invert and OF-2 **(site 7)**

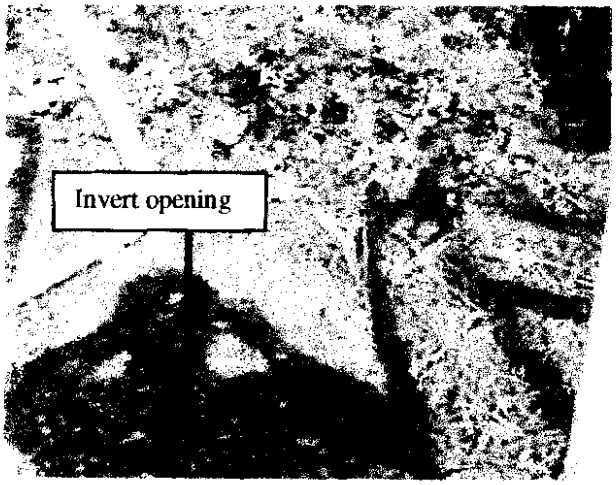


PLATE 15: Storm-drain invert **(site 6)**

PLATE 16: Storm-drain invert **(site 8)**

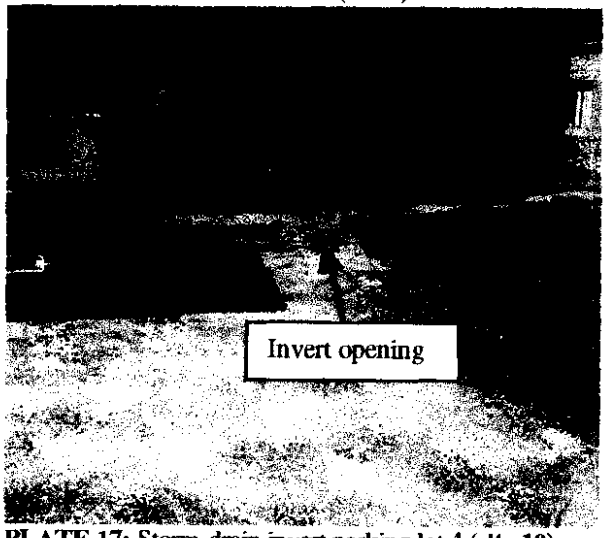


PLATE 17: Storm-drain invert parking lot 4 **(site 10)**

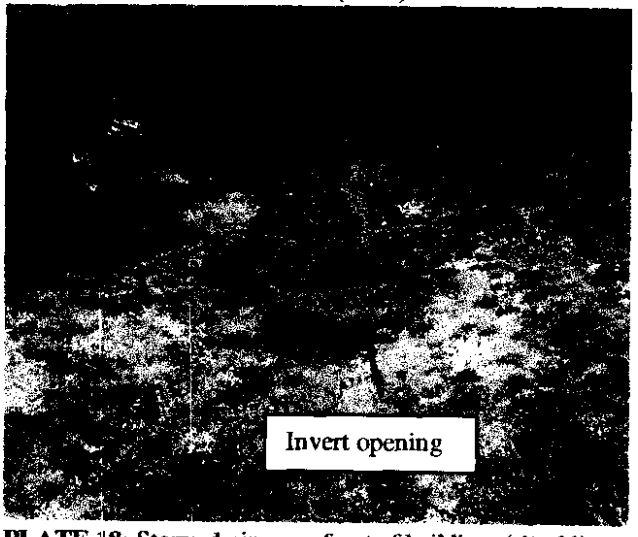


PLATE 18: Storm-drain near front of building **(site 11)**

6.0 Appendix...*continued*

PLATE 19: Storm-drain trench w/ culvert parking lot 3 **(site 13)**

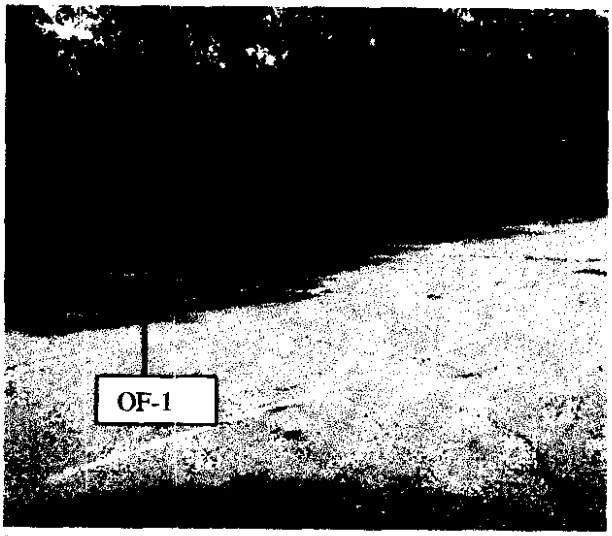


PLATE 20: OF-1 behind OMS – MEP parking lot 1

PLATE 21: Soil erosion area with sand bags **(site 16)**

PLATE 22: New storm-drain invert and curbing **(site 9)**

CT 004

HISTORIC RESOURCES INVENTORY
BUILDINGS AND STRUCTURES

HIST-6 REV 6/83

STATE OF CONNECTICUT
CONNECTICUT HISTORICAL COMMISSION
59 SOUTH PROSPECT STREET, HARTFORD, CONNECTICUT 06106
(203) 566-3005

FOR OFFICE USE ONLY

Town No.: | Site No.:

UTM | QUAD:

DISTRICT ☐ S ☐ NR | IF NR, SPECIFY ☐ Actual ☐ Potential

IDENTIFICATION

1. BUILDING NAME *(Common)*: 1st Lt. John S. Turner U. S. Army Reserve Center *(Historic)*:

2. TOWN / CITY: Fairfield | VILLAGE: | COUNTY: Fairfield

3. STREET AND NUMBER *(and / or location)*: 180 High Street

4. OWNER(S): U. S. 94th Army Reserve Command (94th ARCOM) military ☐ Public ☐ Private

5. USE *(Present)*: Defense - Military Training *(Historic)*:

6. ACCESSIBILITY TO PUBLIC: limited | EXTERIOR VISIBLE FROM PUBLIC ROAD ☒ Yes ☐ No | INTERIOR ACCESSIBLE ☒ Yes ☐ No | IF YES, EXPLAIN: active military facility - permission required

DESCRIPTION

7. STYLE OF BUILDING: Contemporary - American International | DATE OF CONSTRUCTION: 1957

8. MATERIAL(S) *(Indicate use or location when appropriate)*

- ☐ Clapboard
- ☐ Wood shingle
- ☐ Board & batten
- ☐ Aluminum siding
- ☐ Asbestos siding
- ☐ Asphalt siding
- ☐ Stucco
- ☐ Concrete Type: ____
- ☒ Brick
- ☐ Fieldstone
- ☐ Cobblestone
- ☐ Cut stone Type: ____
- ☐ Other *(Specify)* ____

9. STRUCTURAL SYSTEM

- ☐ Wood frame
- ☐ Post and beam
- ☐ Balloon
- ☒ Load-bearing masonry
- ☐ Structural iron or steel
- ☐ Other *(Specify)* ____

10. ROOF *(Type)*

- ☐ Gable ☐ Flat ☐ Mansard ☐ Monitor ☐ Sawtooth
- ☐ Gambrel ☐ Shed ☒ Hip ☐ Round ☐ Other *(Specify)* roofs originally flat

(Material)

- ☐ Wood shingle ☐ Roll asphalt ☐ Tin ☐ Slate
- ☐ Asphalt shingle ☐ Built up ☐ Tile ☐ Other *(Specify)* ____

11. NUMBER OF STORIES: one | APPROXIMATE DIMENSIONS: 145' x 114'

12. CONDITION *(Structural)*: ☐ Excellent ☒ Good ☐ Fair ● Deteriorated | *(Exterior)*: ☐ Excellent ☒ Good ☐ Fair ☐ Deteriorated

13. INTEGRITY *(Location)*: ☒ On original site ☐ Moved | WHEN? | ALTERATIONS ● Yes ● No | IF YES, EXPLAIN: hipped roofs built over flat, built-up roofs

14. RELATED OUTBUILDINGS OR LANDSCAPE FEATURES

- ☐ Barn ☐ Shed ☒ Garage ☐ Other landscape features or buildings *(Specify)*
- ☐ Carriage house ☐ Shop ☐ Garden

three-bay maintenance shop (MS) garage

15. SURROUNDING ENVIRONMENT

- ☐ Open land ☐ Woodland ☒ Residential ☐ Scattered buildings visible from site
- ☐ Commercial ☐ Industrial ☐ Rural ☐ High building density

16. INTERRELATIONSHIP OF BUILDING AND SURROUNDINGS

Fenced Reserve Center is at an intersection in a residential area. Wooded, rocky, and open, landscaped grounds help center to blend into residential area.

(OVER)

17. OTHER NOTABLE FEATURES OF BUILDING OR SITE (Interior and/or exterior)

DESCRIP (Continued)

18. ARCHITECT
Reisner & Urbahn

BUILDER

19. HISTORICAL OR ARCHITECTURAL IMPORTANCE

SIGNIFICANCE

See attached architectural description and historical significance statement.

SOURCES

Fort Devens Real Property Office Records
Facility Records

PHOTO

PHOTOGRAPHER
Kirk Van Dyke

DATE
March 19, 1995

VIEW
looking southwest R2F12

NEGATIVE ON FILE
94th ARCOM HQ, Fort Devens, MA

COMPILED BY

NAME
Matt Kierstead

DATE
August 8, 1995

ORGANIZATION
The Public Archaeology Laboratory, Inc.

ADDRESS
210 Lonsdale Avenue, Pawtucket, Rhode Island

20 SUBSEQUENT FIELD EVALUATIONS

21 THREATS TO BUILDING OR SITE

None known ☐ Highways ☐ Vandalism ☐ Developers ☐ Other

☐ Renewal ☐ Private ☐ Deterioration ☐ Zoning Explanation

Community: Fairfield
Property Address: 180 High Street

ARCHITECTURAL DESCRIPTION ***(continued)***

The First Lieutenant John S. Turner United States Army Reserve Center, designed by Reisner & Urbahn, and built in 1957 as a 400-man center, is an L-shaped, one-story structure, with a 114-foot by 48-foot main administrative and classroom block with basement, and a 72-foot by 52-foot drill hall wing. These two sections are connected at the northwest corner of the structure by a narrow, 25-foot long corridor. All walls are concrete block with exterior brick veneer. The main block and drill hall wing both originally had flat roofs, which were altered to asphalt-shingled, low-pitch hip roofs with ridges in 1987. Double aluminum and plate-glass entrance doors are located at the west side of the 25-foot long corridor which connects the main block with the drill hall wing. The main block is a long, low building, with overhanging eaves, and a thin concrete string course above the windows. The long, south elevation contains thirteen recessed, metal-sash windows with two vertical panes on slightly protruding concrete sills. This type of window also appears on the north and west elevations. These windows replaced the original four- and six-pane, steel sash windows. The ground line is punctuated by cast concrete basement light wells located at ten-foot intervals. A short, square, brick chimney is located on the north roof plane. Interior features include administrative offices and classrooms arranged along a double-loaded corridor, a kitchen, boiler room, weapons vault, locker rooms, and equipment storage. The drill hall wing is a taller, 22-foot high structure, lit by six-foot high bands of three-pane, metal sash windows which span the length of the tops of the long, side walls. These windows replaced the original eight-pane, steel sash windows. Each window bay has a slightly protruding concrete sill. The walls are divided into four wide bays which express the location of the three I-beams which support the diagonally-braced, open-web steel roof joists. The east wall of the drill hall contains a roll-type garage door for vehicle access. The drill hall floor is a thick concrete slab to support the weight of heavy military vehicles. The end walls of the drill hall are unfenestrated brick.

One related outbuilding, the Maintenance Shop (MS), is located approximately 250 feet northeast of the main wing and drill hall. The maintenance shop, also designed by Reisner & Urbahn, and built in 1961, is a 70-foot by 46-foot, three-bay, one-story, brick vehicle garage, with a slightly pitched, built-up roof, capped with wide metal coping. Three large roll-type garage doors with small oval windows fill the front (southwest) bays, and the southeast and northwest side walls are divided into three bays by brick pilasters which support the roof beams. The maintenance shop is lit by a band of windows high on the rear (northeast) wall. A personnel access door is located in the northwest side of the building.

The 1st Lt. John S. Turner Reserve Center is located on a 5.11-acre graded lot on High Street, in a residential neighborhood. Interstate 95 is visible to the east. A large pond, with park land, is located to the southwest. The reserve center is open to the street at the front (west) and south sides, and fenced beyond the building. A paved walk leads to the front entrance, and a gated driveway at the south side of the building leads to a large parking area and the maintenance shop. The land to the northeast of the main building and drill hall is rocky, and densely-overgrown to the north corner of the property. A rectangular portion of this area has been cleared for an additional parking lot. Landscaping at the south and west sides of the main building and drill hall consists of mown lawns, trimmed yews, and a combination of a few large and small flowering trees. A flagpole is located in front of the building.

The 1st Lt. John S. Turner Reserve Center is an altered example of the main design phase of a series of similar reserve centers constructed across the United States from the early 1950s to the early 1960s. These spartan buildings were designed according to an architectural program developed by the U.S. Army Corps of Engineers and the New York architectural firm of Reisner & Urbahn, and a later incarnation, Urbahn, Brayton & Burrows. The reserve centers were built from a set of master plans, which were

adapted as necessary to conform to military capacity requirements, and modified to conform to specific site configurations. The reserve center design program combined the need for low cost, easy expansion, and uniformity with Contemporary, International Style-derived architectural features such as hard-edged rectangular massing, flat roofs, lack of ornamentation, and emphasis on simple materials and regular rhythms of fenestration. The use of the Contemporary Style, combined with the function and interior layout of the reserve centers, resulted in a building type which resembles primary school architecture, as well as corporate and municipal buildings of the period. The addition of the hipped, asphalt-shingled roofs and replacement fascia and windows have altered the original appearance and architectural integrity of the 1st Lt. John S. Turner Reserve Center.

HISTORICAL SIGNIFICANCE ***(continued)***

The United States Army Reserve (USAR) is a Federal military organization distinct from the full-time, professional Regular Army and the state National Guard. The USAR is maintained as a source of personnel to rapidly support the Regular Army in the event of conflict. The USAR is composed of "citizen-soldiers," civilians committed to a period of duty in exchange for benefits and pay. The history of the USAR has been characterized by conflict between the Regular Army, U.S. Presidents, and Congress over the combat role and funding of the USAR. This conflict resulted in early difficulties in reaching projected goals for equipment, facilities, and utilization. The USAR has its origins in the Colonial state militia, informally trained citizens organized against the British Army during the Revolution. The modern USAR has its roots in the Medical Act of 1908, which started a reserve force of medical officers. Distinct organizations of reserve officers and regulars participated in World War I. During the 1930s, the Works Projects Administration provided reserve officers with the opportunity to run Civilian Conservation Corps camps.

The USAR also sent soldiers into combat during World War II. The postwar period was a time of change for the USAR, as emerging Cold War defense philosophy called for a larger reserve force to augment the Regular Army. Reliance on nuclear detente during the Cold War drew attention away from the development of the USAR, and reduced its effectiveness in the Korean Conflict. The USAR was not a major participant in the Vietnam War, as President Lyndon Johnson anticipated the negative political implications of USAR mobilization for an unpopular war. Under Nixon's 1970 Total Force policy, the USAR was made an all-volunteer force with an increased combat role and increased benefits and pay. Overall, USAR equipment and facilities have been increased since World War II. These gains have been vital for USAR units in reaching unit size and readiness requirements.

The USAR remains an active element in the U.S. military establishment. In the event of mobilization, USAR units are assimilated into the Regular Army to provide service and support. Army reservists today are required to attend forty-eight 4-hour drills per year at a Reserve Center, where Army training staff instruct them in procedure and the use of equipment, and one 15-day intensive summer training camp. Military training personnel of the 98th Training Division are stationed at New England reserve centers to provide instruction. USAR activities in New England and New York are controlled by the 94th Regional Support Command (RSC) headquartered at Fort Devens, Massachusetts.

Prior to the end of World War II, defense policy makers were already planning for the Cold War. Defense plans called for an increased role for the Army Reserve, which was to augment the Regular Army in times of national emergency. The Army Reserve lacked proper facilities for training and equipment after World War II, and reserve units could not be activated without them. The War Department recommended that the Federal Government appropriate funds for armory (reserve center) land purchases and construction. This appropriation required Congressional approval, and in May 1946, H.R. 5762, a bill for armory construction funds was introduced into Congress. This bill failed due to disagreements over funding allocation and property ownership, as did six other pieces of legislation introduced over four years. On September 11, 1950, the 81st Congress passed H.R. 8594, the National Defense Facilities Act, which gave

the reserve components $250 million for construction over five years. This bill was amended in 1955, allocating another $25 million for reserve construction.

During this period the reserve components were developing the new reserve center concept. Proposed facility criteria and specifications were collected from numerous military agencies, and approved by the Secretary of Defense. From this information sketches and models were made by the Corps of Engineers, and reviewed by the parties involved. From the resulting comments the Corps of Engineers developed construction criteria, and finished drawings were made by selected outside architects and engineers such as Reisner & Urbahn. Reisner & Urbahn were known by the Corps of Engineers for successful work with National Guard armory design, and were awarded the commission for the New England reserve centers after funding was insured by passage of the National Defense Facilities Act. Due to similar facility needs the reserve center program was overseen by the National Guard Bureau. Designers recognized that due to changing military tactics and technology, instruction space would take precedence over the traditional drill hall in the new architectural environment they were designing. Other requirements included storage space and offices. The reserve centers were typically constructed using inexpensive materials, were devoid of ornamentation, and were designed to blend into their architectural surroundings. Standardization was important for construction efficiency and was key to facilitating the expansible nature of the design, which allowed for additional wings to be added to increase the capacity of the reserve center. The bulk of the Reisner & Urbahn reserve centers were constructed in the mid-1950s, particularly after the additional funds acquired by the amendment of the National Defense Facilities Act in 1955. The Reisner & Urbahn New England reserve center campaign ended in 1964, with 23 reserve centers constructed. After this large commission, reserve facility policy shifted to the utilization of existing defense facilities. This facility was built on 5.11 acres purchased for $24,900 in 1955.

The function of this reserve center is to provide administrative, classroom, maintenance, and storage space to Army Reserve personnel and assigned Army Reserve units. The reserve center serves as a base of operations for specialized units that can be mobilized and assimilated into the Regular Army when required. At the reserve center, assigned Army Reserve units receive advanced individual training in the use of military equipment, weapons, tactics, and vehicles. In the event of mobilization with a draft, U.S. Army training instructors stationed at the reserve center are deployed to conduct basic training of draftees. Military instruction at the reserve center takes place in the classrooms and in the drill hall, which is used for general assemblies and drill practice and can accommodate large military vehicles. A kitchen is also associated with the drill hall. Administrative office space is provided for full-time unit support personnel, including the Facility Manager, who is responsible for the day-to-day operation and maintenance of the facility; and the Unit Administrator, who is responsible for unit personnel, pay, promotion, and supply. In the event that the assigned reserve units are mobilized, the reserve center also provides home support for the units. The reserve center also serves as an Army Reserve recruiting center.

This maintenance shop is a motor vehicle garage used by reserve center personnel for routine periodic maintenance and storage of smaller assigned unit vehicles. Tasks performed at the maintenance shop include oil changes, lubrication, battery filling, light running repairs, and minor maintenance such as tire changing, replacement of light bulbs, and minor painting, tuning and washing. Heavier repairs are performed at a centralized regional Area Maintenance Support Activity (AMSA) facility which is discussed on a separate form. The maintenance shop is now also used for unit equipment storage, with most assigned unit vehicles stored outdoors.

BIBLIOGRAPHY and SOURCES *(continued)*

Butz, Jerry, Facility Manager
1995 Interview with Matt Kierstead, Fairfield, Connecticut, March 20, 1995.

Crossland, Richard B. and James T. Currie
1984 *Twice the Citizen: A History of the United States Army Reserve, 1908-1983.* Office of the Chief, Army Reserve, Washington, D.C.

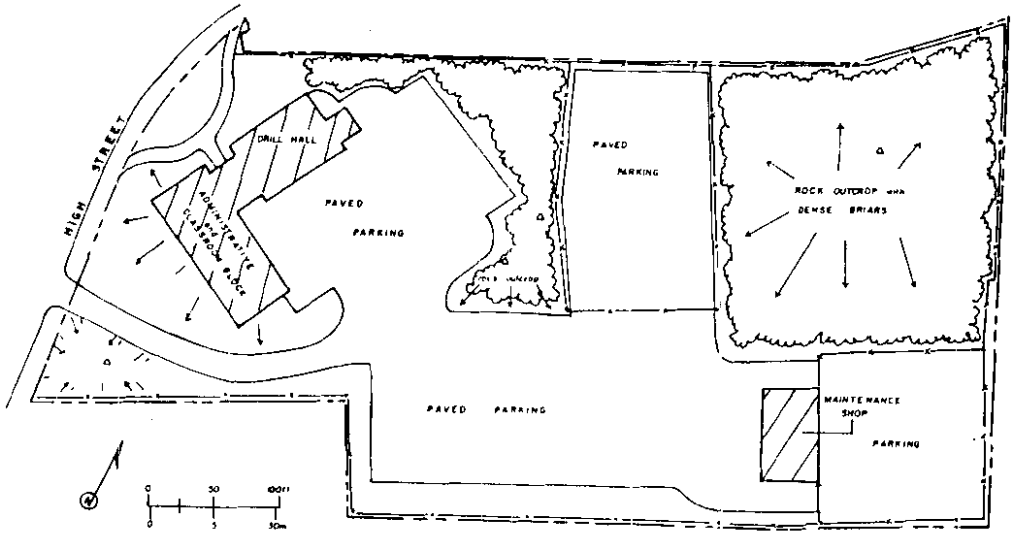
1st Lt. John S. Turner U.S. Army Reserve Center, Fairfield, Connecticut.
1995 Facility Files

Fort Devens
1995 Real Property Files

National Archives and Records Administration, Washington, DC and College Park, MD
Record Groups 168, 319, and 407

Urbahn, Max
1995 Interview with Matt Kierstead, Pawtucket, Rhode Island, May 17, 1995.

SITE PLAN OF THE FIRST LIEUTENANT JOHN S. TURNER USARC



LT John S. Turner USARC (CT004)

Facility Description

The LT John S. Turner USARC is located on the east side of High Street, within a residential neighborhood in Fairfield, Fairfield County, Connecticut (Figure **3-4).** The 5.11-acre lot **was** purchased in 1955 and currently contains the reserve center, maintenance shop, paved parking lots, and an unpaved military vehicle storage area. The facility is open to the street at the west and south sides, and fenced beyond the building. Interstate 95 is located 164 yards to the southeast.

Environmental Setting

Topography and Physiographic Zone

The Turner USARC lies within the Connecticut Valley Lowland region of the **New** England physiographic province The facility is **also** included in the Western Coastal Ecoregion, which is a maturely dissected area with low hills and ridges rising above open valleys that lie entirely within the lowland area. Elevations generally range from 10 to 70 ft msl along the immediate coast and **from** 100 to *850* ft msl inland

Bedrock, Surficial Geology, and Soils

The underlying bedrock formation in the Western Coastal Ecoregion consists primarily of metamorphic gneisses and schists in northern sections and Triassic sedimentary and igneous rocks in the southern sections. The soils developed from glacial till in upland interior regions and local stratified deposits **of** sand, gravel, and silt in river valleys. Soils within the Turner USARC property are classified **as** Hollis-Charlton-Rock outcrop complex (USDA 198 la). This complex consists of gently sloping and sloping soils (3 to 15 percent slope) on hills and ridges and has undulating topography marked with exposed bedrock, a few narrow drainageways, and a few small, wet depressions. The complex **is** about 25 percent somewhat excessively drained Hollis soils (fine sandy loam), 20 percent well-drained Charlton soils (fine sandy loam), 20 percent exposed bedrock, and 25 other soils (moderately well-drained Sutton scils, poorly drained Leicester soils, and v e n poorly drained Adrian soils. The Hollis and Charlton soils and exposed bedrock are so intermingled on the landscape that it **was** not practical to map them separately (USDA 1981a).

Housatonic River Drainage

The Turner USARC facility lies within the Connecticut Western Coastal area, which encompasses much of the southwestern part of the state. Drainage flows into Long Island Sound between New York. State and the Housatonic River Basin. The facility lies 164 yards north and east of **an** unnamed pond and stream, and 985 yards northwest of Ash Creek, which feeds into Long Island Sound.

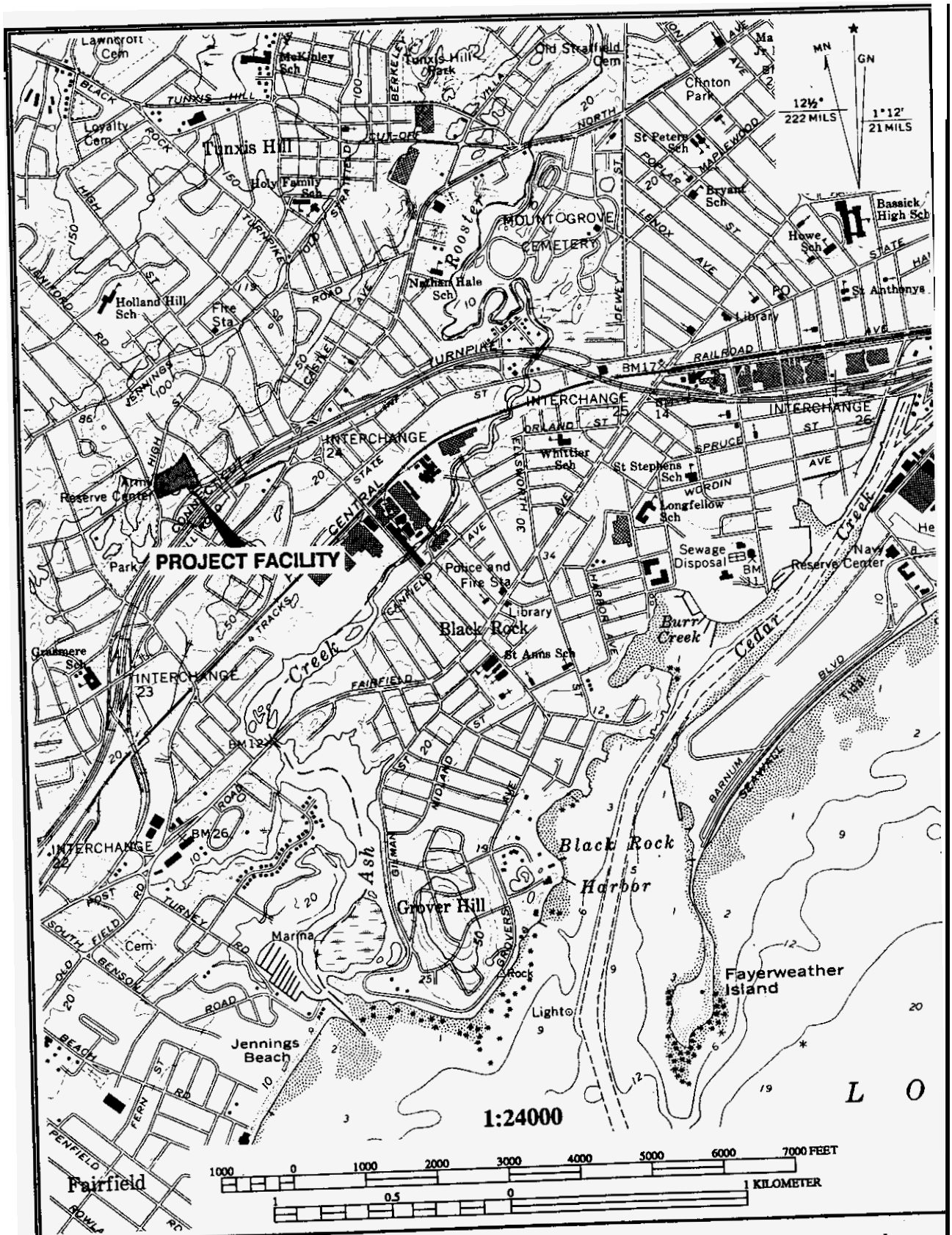


Figure 3-4. **Location of the LT John S. Turner USARC (CT004) project facility on the Fairfield, Connecticut USGS topographical quadrangle, 7.5 minute series.**

Prehistoric Context

The general prehistoric overview for the Turner USARC is the same a:; that presented under the Middleton USARC facility.

The area surrounding the Turner USARC facility contains a low density of identified prehistoric sites. There are no recorded sites within a I-mile radius of the facility, but several have been identified within **2** miles (University of Connecticut/Storrs site files). Five of the six known sites are only recorded with locational information. The Mill River **3** and 4 sites (CT 51-4 and 7) are located west of the project facility in a topographic region known as Mill Plain. The Mill River drains into the ocean at Southport Harbor a few miles to the south. Excavations at these two sites identified two quartz projectile point tips, a quartz biface, and quartz chipping debris. No temporal or cultural affiliation could be applied to the deposits.

The Pequannock Old Fort Site (CT 15-21): located approximately 2 miles east of the Turner USARC property in Bridgeport, is reported as a fortified village. Although **no** additional information on the site is available, it most likely dates to the Late Woodland/Contact or Early Historic period. The site is located **on** the banks of Cedar Creek, which empties into Black Rock Harbor.

Expected Prehistoric Resources

The archaeological sensitivity for the project vicinity is high. Although few sites have been identified in the immediate area: many have been located in similar coastal settings in Connecticut and southern New England. The combination of nearby coastal resources and several tidal streams (Ash Creek, Cedar Creek, and Rooster River) would have been desirable to prehistoric groups in the area. Expected site types within **any** intact, well-drained sandy portions of the Turner USARC property could include small, special-purpose campsites associated with hunting, fishing, or gathering activities as well as larger, more permanent Woodland Period base camps. Shell midden features could be expected due to the proximity of the coast and tidal streams. The proximity of a Woodland Period fortified site indicates that additional resources dating to this period could he located in the project vicinity.

Historic Context

The area encompassed within present-day Fairfield was known as Uncoway, the Indian name of the place, prior to European settlement. Following the end of the Pequot War in 1937, Roger Ludlow and a small group of Englishmen from Windsor settled the plantation that became Fairfield. Ludlow purchased this tract of land from the Pequonnock Indians in **1639,** and the General Court directed him to survey and divide the plantation for additional settlers. The purchase comprised the parishes ***of*** Fairfield, Greenfield, Green's Farms, a part of Stratfield, all the town of Weston, and a part of Reading (Barber 1838). The first lots extended back from Long Island Sound about 10 miles, and near the center 1 sq m was reserved for a common. Greenfield Hill was situated within the limits of the mile-long common.

The settlement was officially incorporated as a township under the jurisdiction of the colony of Connecticut in 1645. It was named Fairfield, either from its meaning 'fair field' or from Fairfield in Kent, England (Crofut 1937). The early settlers were each provided with 1 lot of land for the erection of a dwelling and garden plot. By 1639 five streets had been laid out near the meetinghouse green. In 1640 the green contained the church, which also served as a school and **a** townhouse. A grammar school was started in 1693, and by 1695 a separate schoolhouse had been built on the green. The town was situated along King's Highway, which later became the Old Post Road from New York to Boston. The town contained rich agricultural soil and thick forests that provided ample timber for the early proprietors.

The period of European settlement and expansion in Fairfield came to an abrupt halt during the Revolutionary War. The entire settlement, including over 85 dwellings, **2** churches, 1 courthouse, 55 barns, and 15 shops were destroyed by fire during a raid by Governor Tryon on July 7 and 8,1779 (Barber 1838; Crofut 1937). Following the war, the town's inhabitants and their heirs were offered 500,000 acres of land owned by Connecticut in Huron County, Ohio. This area became known as the Fire Lands (Crofut 1937).

The settlers who returned to the former town erected new buildings on nearly the same foundations that stood before the 1779 destruction. By the end of the Federal Period, the town had experienced such an increase in residents that it was divided into three parishes: Fairfield, Green's Farms, and Greenfield. Like the original settlement, the new town was built along one principal street, Old Post Road, around the 1-sq m green or square. The village consisted of about 100 dwellings, a courthouse and jail, a Congregational church, and an academy. By 1830 it had become the shire town of Fairfield County (Barber 1838). The academy was established in 1783 by Reverand Timothy Dwight. It **was** known as the Greenfield Hill Academy and later the Dwight Grammar School. In 1804 the Fairfield Academy was founded on the south side of Old Post Road.

The local economy of Fairfield throughout the Early Industrial Period was centered at Southport, **a** village situated at the mouth of the Mill River. By the 1830s this small hamlet had grown to include nearly 70 dwellings, 8 stores, an academy, a post office, a bank, and an Episcopal church. The village flourished through its shipping industry, taking advantage of the extensive and fertile backlands. The produce from Greenfield and surrounding villages was shipped from Southport to New York and southern ports. The harbor was small, but sufficient for 100-ton vessels.

By 1850 the town's population had reached 3,614 individuals (Census of 1850). It was densely settled in the village of Greenfield to the north and along the New York and New Haven rail line to the south (Anon. 185[?]). The villages of Southport P.O., Fairfield P.O., and Black Rock P.O. thrived due to their proximity to the rail **line** that connected Fairfield to New York City and points southwest and to New Haven and points northeast at Providence and Boston. The project facility was historically situated to the north side **of** the rail line between the Fairfield P.O. and Black Rock P.O. village centers (Figure 3-5).

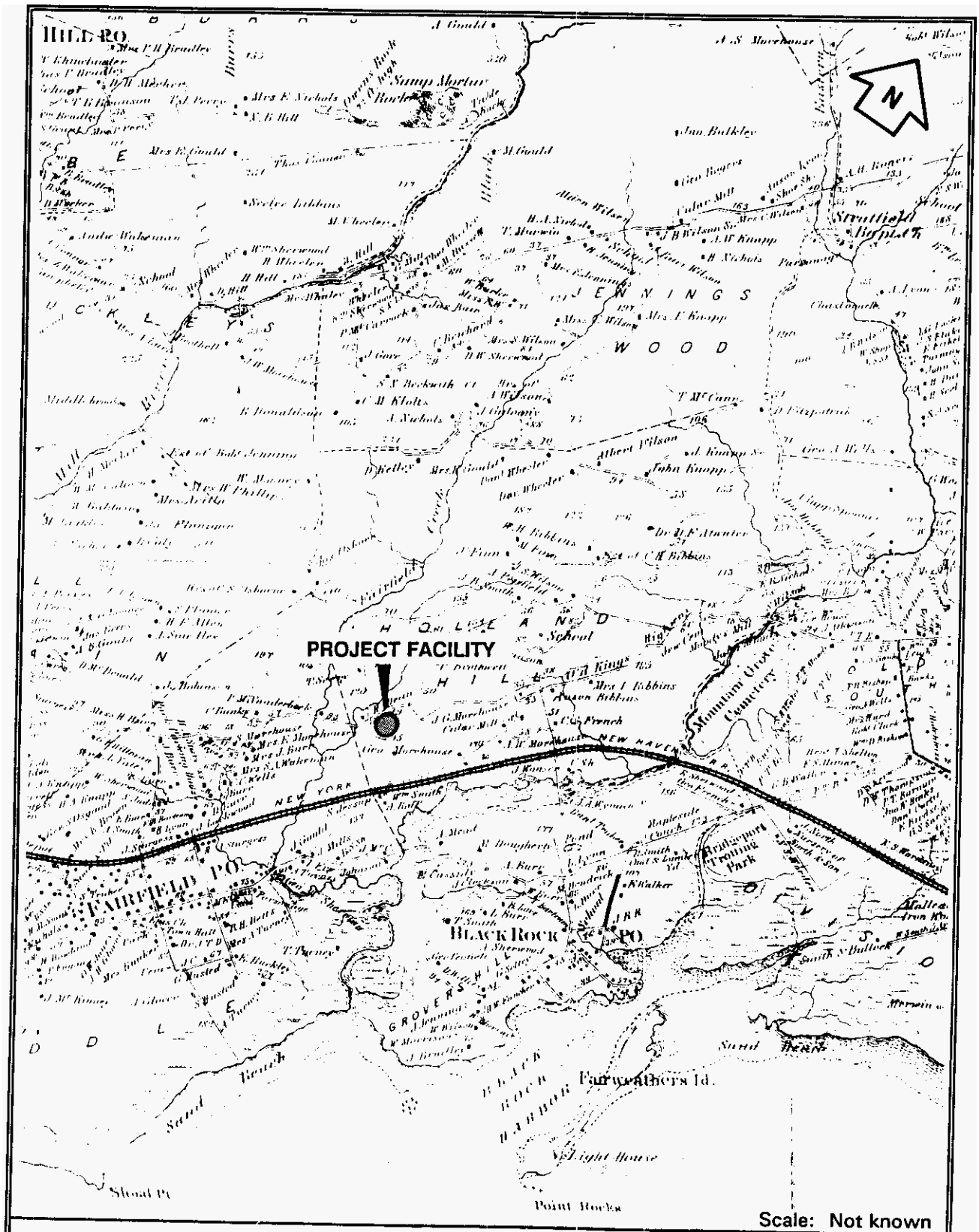


Figure 3-5. **185- map of Fairfield, Connecticut with the location of the LT John S. Turner (CT004) project facility (source: Anon. 185[?]).**

Expected Historic Resources

A review of town histories and nineteenth-century maps of Fairfield (Barber 1838; Anon. 185[?]; Crofut 1937) and facility files indicates an absence of documented historic period sites within the Turner USARC property. However, the project property is located near secondary Native American Contact Period trails and later EuroAmerican Colonial Period settlement. The presence and integrity of any under-documented historic resources within the Turner USARC property is dependent on the degree of ground disturbance related to facility construction and associated earthmoving activities.

Results of Previous Archaeological Studies

The 1979 archaeological survey of the Turner USARC determined that the facility contained 7,000 sq m of undisturbed area (Hammer 1983). This area consisted of a bedrock outcrop with no soil disposition. An intensive archaeological survey of the parcel was not recommended.

Results of Validation Survey

The validation survey of the Turner USARC included a walkover of the facility to reassess the previous determination of low sensitivity and recommendation for no further work. Based on the walkover survey, a review of 1955 through 1994 facility plans, and four shovel turnovers, it was determined that the natural topography of a majority of the property had been disturbed as a result of machine grading and filling, building and parking construction, and the placement of underground utility lines and tanks. The remainder of the property is comprised of slope and bedrock outcrop, and is therefore untestable (Figure 3-6). The shovel turnover profiles confirmed the presence of disturbed soils and very shallow topsoils capping the outcrop (see Appendix B).

Conclusion/Recommendation

Based on the degree of previous disturbance and the extent of the bedrock outcrop, it was confirmed that this facility possesses a low archaeological sensitivity for intact cultural resources. No further archaeological investigation is recommended.

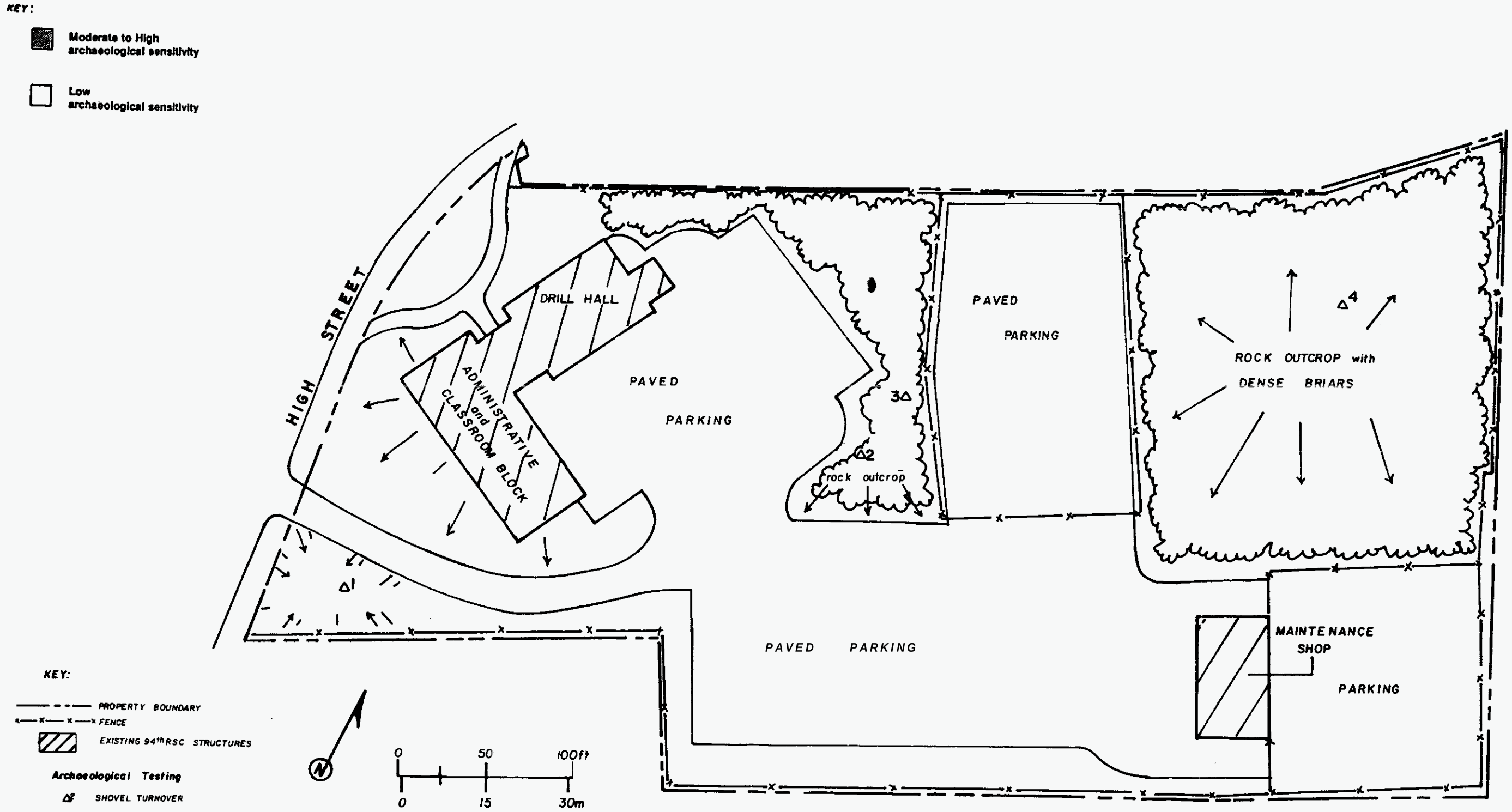


Figure 3-6. **LT John S. Turner USARC (CT004) project facility, showing the location of shovel turnovers and archaeological sensitivity.**

Fax

[redacted]

To: Leslie Shannon **From:** Omar Tyson-CT-DEP

Fax: 334-277-5763 **Pages:** (4 incl cover sheet)

Phone: **Date:** 3/14/2007

Re: 164 Birchwood / Fairfield, CT **CC:**

Urgent x **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

Hello Leslie,

Per our telephone conversation, attached please find the LUST and Spills reports associated with the property at 164 Birchwood Street in Fairfield, CT.

Hopefully this information proves useful to you/your client. Please feel free to contact me directly at **860-424-3116** if you have any other questions or concerns.

Good Luck!

Truly yours

Omar Tyson
CT-DEP-USTEP
Sanitary Engineer I
860-424-4061-fax

Lust Lookup

30395 Entry: Active: ☐

Status: ○ Pending ◉ Investigation ○ Cleanup Initiated ○ Completed

Incident Date: 6/1/1994
Site Name1: SCHON PROPERTY
Site Name2:
Site Address1: 164 BIRCHWOOD RD.
Site Address2:
Site Town, Zip: 51 Fairfield CT
Comments:

LUST Staff:
Investigator: 24
DEP Contact:
Ref Source:
Date Referred:
Zip Code: 06430-

Referred To:

Flags

☐ **Emergency** ☐ OCSRD Complete ☐ Alt Water Supply
☑ **Private HF**
☐ **Commercial HF**
☐ Comm HF LE 2100 Ga
☐ Comm HF GR 2100 Ga
☐ Comm HF Unknown Amt.
☐ **Motor Fuel**
☐ Diesel
☐ Gasoline
☐ **Leak**
☐ Tank
☐ Removal
☐ Piping
☐ Overfill
☐ Other Release >
☐ Spill $ Candidate
☐ Relocation
☐ Lust Follow Up Follow Up Date:

	Contractor	Consultant
Site Contact:		
Contact Address1:		
Contact Address2:		
Contact Town St.:	0	0
Contact Zip:		
Contact Phone:		
Contact Fax:		
Contact Type:		

Work Done: ☐ Site Inspection

☐ Cellar Borings ☐ Soil Gas ☐ Survey
☐ Install MWs ☐ Soil Venting ☐ Potable Well Sample
☐ GW Sample ☐ Soil Excavate ☐ Sample MWs
☐ Soil Sample ☐ Geo Probe ☐ GW Gauging

☐ Responsible Party
RP Name1:
RP Name2:
RP Address1:
RP Address2:
RP Town, St: 0
RP ZipNo:
RP Phone:
RP Phone2:
RP Fax:

Links

USTE Facility ID:
Owner ID:
SITS Spillcase No:
Old SITS Spillcase No:
Cost Recovery Spillcase No:
UST Comm Site No:
Case Log Log ID:
Monthly Rpt Monthly Rpt ID: 0000-00000

Ground Water

GW Classification:
Sampling/Gauging Frequency:
GW Flow Direction:
GW Depth:
GW Gradient:
Depth of Free Product:
No. of Wells:
Wells Containing LPH:
Comments:

Action

Action	Date	Medium: DEP?
		☐

NOV

NOV Discovery Date:	Discovery	☐ Stop All NOV Actions
NOV Issued:	+90	
NOV Compliance Sched:	+120 (30)	
Admin Order:	+180	
Referred To AG:	+210	

Release

Substance	Source	Quantity	Unit
Heating Oil	Residential Heatl	550	Gallons

☐ Release Investigation Rpt
☐ DEP Approval Letter1
☐ Corrective Action Plan
☐ DEP Approval Letter2
☐ Remedial System Install Install Date:
☐ Remedial Sys Monitor Rpt
☐ Qrtly GWater Monitor Rpts
☐ Closure Request Report
☐ DEP Closure Letter

NOV Comments:
Closure Date:

Location:
Release:
Work done:
Follow up:

Lust Lookup

30395 Entry:
Active: [ ]

Status:
( ) Pending (•) Investigation ( ) Cleanup Initiated ( ) Completed

SITS Old Data Report Spillcase: 0094-03637

1994
Representing: UNITED INDUSTRIAL SERVICES
Location: 164 BIRCHWOOD DRIVE
Reported By: ANDY VANETTEN

Release Town: FAIRFIELD

RP Town: FAIRFIELD
RP Zip:
Rel. Substance: #2 FUEL OIL

Assigned To: EMANUELSON
Date Reported: 7/6/1994
Date of Release: 7/6/1994
Terminated?: Y

Gallons, Yards:
Waterbody: BROOK

Action:

Information: 550 LUST NEAR STREAM/BROOK

Comments:

W

Appendix E

Regulatory Database Search Reports

The EDR Radius Map
with GeoCheck®

1LT John S. Turner USARC, CT
180 HIGH STREET
FAIRFIELD, CT 06824

Inquiry Number: 01714247.140r

July 12, 2006

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

TABLE OF CONTENTS

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

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

180 HIGH STREET
FAIRFIELD, CT 06824

COORDINATES

Latitude (North):	41.164900 - 41° 9' 53.6''
Longitude (West):	73.242400 - 73° 14' 32.6''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	647454.9
UTM Y (Meters):	4558339.5
Elevation:	89 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	41073-B2 BRIDGEPORT, CT
Most Recent Revision:	1984
West Map:	41073-B3 WESTPORT, CT
Most Recent Revision:	1984

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following government records. For more information on this property see page 6 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
US ARMY RESERVES 180 HIGH STREET FAIRFIELD, CT 06430	LUST	N/A
180 HIGH STREET, US ARMY RESERVE 180 HIGH STREET, US ARMY RESERVE CE FAIRFIELD, CT	CT Spills	N/A
FAIRFIELD, USAR CENTER 180 HIGH STREET FAIRFIELD, CT 06430	UST	N/A

EXECUTIVE SUMMARY

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:

FEDERAL RECORDS

NPL	National Priority List
Proposed NPL	Proposed National Priority List Sites
Delisted NPL	National Priority List Deletions
NPL RECOVERY	Federal Superfund Liens
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP	CERCLIS No Further Remedial Action Planned
RCRA-TSDF	Resource Conservation and Recovery Act Information
RCRA-LQG	Resource Conservation and Recovery Act Information
RCRA-SQG	Resource Conservation and Recovery Act Information
ERNS	Emergency Response Notification System
HMIRS	Hazardous Materials Information Reporting System
US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
US BROWNFIELDS	A Listing of Brownfields Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
ODI	Open Dump Inventory
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)
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
MINES	Mines Master Index File
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

SWF/LF	List of Landfills/Transfer Stations
SWRCY	Recycling Facilities
AST	Marine Terminals and Tank Information
CT MANIFEST	Hazardous Waste Manifest Data
AUL	ELUR Sites
VCP	Voluntary Remediation Sites
DRYCLEANERS	Drycleaner Facilities
BROWNFIELDS	Brownfields Inventory
ENF	Enforcement Case Listing
CT PROPERTY	Property Transfer Filings

TRIBAL RECORDS

INDIAN RESERV	Indian Reservations

EXECUTIVE SUMMARY

INDIAN LUST R1 Leaking Underground Storage Tanks on Indian Land
INDIAN UST R1 Underground Storage Tanks on Indian Land

EDR PROPRIETARY RECORDS

Manufactured Gas Plants EDR Proprietary Manufactured Gas Plants
EDR Historical Auto Stations EDR Proprietary Historic Gas Stations
EDR Historical Cleaners EDR Proprietary Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

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.

FEDERAL RECORDS

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 03/15/2006 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
HANDY & HARMON	***1770 KINGS HIGHWAY***	***1/2 - 1 SSE***	***22***	***66***

STATE AND LOCAL RECORDS

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 Inventory of Hazardous Disposal Sites.

A review of the SHWS list, as provided by EDR, and dated 05/19/2006 has revealed that there are 2 SHWS sites within approximately 1 mile of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
BULLARD COMPANY	***40 BLACK ROCK TURNPIKE***	***1/2 - 1 ESE***	***28***	***95***
BULLARD COMPANY	***286 CANFIELD AVENUE***	***1/2 - 1 ESE***	***29***	***97***

EXECUTIVE SUMMARY

SDADB: Site Discovery and Assessment Database.

A review of the SDADB list, as provided by EDR, and dated 05/19/2006 has revealed that there is 1 SDADB site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
ROLOCK INC.	***1350 KINGS HIGHWAY***	***1/4 - 1/2 ESE***	***14***	***40***

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 Leaking Underground Storage Tank List.

A review of the LUST list, as provided by EDR, and dated 05/23/2006 has revealed that there are 15 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
ARMY RESERVE	182 HIGH ST.	0 - 1/8 NNE	4	12
SCHON PROPERTY	164 BIRCHWOOD RD.	1/8 - 1/4 W	6	18
MR. SAMUEL DECARO	***29 JENIFORD ROAD***	***1/8 - 1/4 NNW***	***7***	***21***
RICHARD FORD	***438 CRESTWOOD***	***1/4 - 1/2 W***	***8***	***25***
MRS. BUDNICK	***155 JENIFORD RD.***	***1/4 - 1/2 NNW***	***11***	***35***
ALBERT SZABO	***771 HIGH STREET***	***1/4 - 1/2 N***	***20***	***60***

Lower Elevation	Address	Dist / Dir	Map ID	Page
UNKNOWN	***90 PARKWOOD ROAD***	***1/8 - 1/4 SW***	***5***	***14***
LEAHY RES.	***108 BLACKROCK AVE.***	***1/4 - 1/2 ENE***	***9***	***29***
COCA COLA	BLACK ROCK TPKE.	1/4 - 1/2 E	10	33
RITA FALVEY	***35 QUAKER LA.***	***1/4 - 1/2 SSW***	***15***	***42***
FAIRCO AIR CONDITIONING	BLACK ROCK TPKE.	1/4 - 1/2 E	16	46
JERRY TOUGAS	***61 QUAKER LA.***	***1/4 - 1/2 SSW***	***17***	***48***
SONITROL	***1501 KINGS HIGHWAY EAST***	***1/4 - 1/2 SE***	***18***	***52***
WILLIAM MASON	***684 COMMERCE DR***	***1/4 - 1/2 ESE***	***19***	***56***
GETTY SERVICE STATION	721 KING HIGHWAY	1/4 - 1/2 S	21	64

CT LWDS: The Leachate and Waste Water Discharge Inventory Data Layer (LWDS) includes point locations digitized from Leachate and Wastewater Discharge Source maps compiled by the Connecticut DEP.

A review of the LWDS list, as provided by EDR, and dated 09/22/1999 has revealed that there are 8 LWDS sites within approximately 1 mile of the target property.

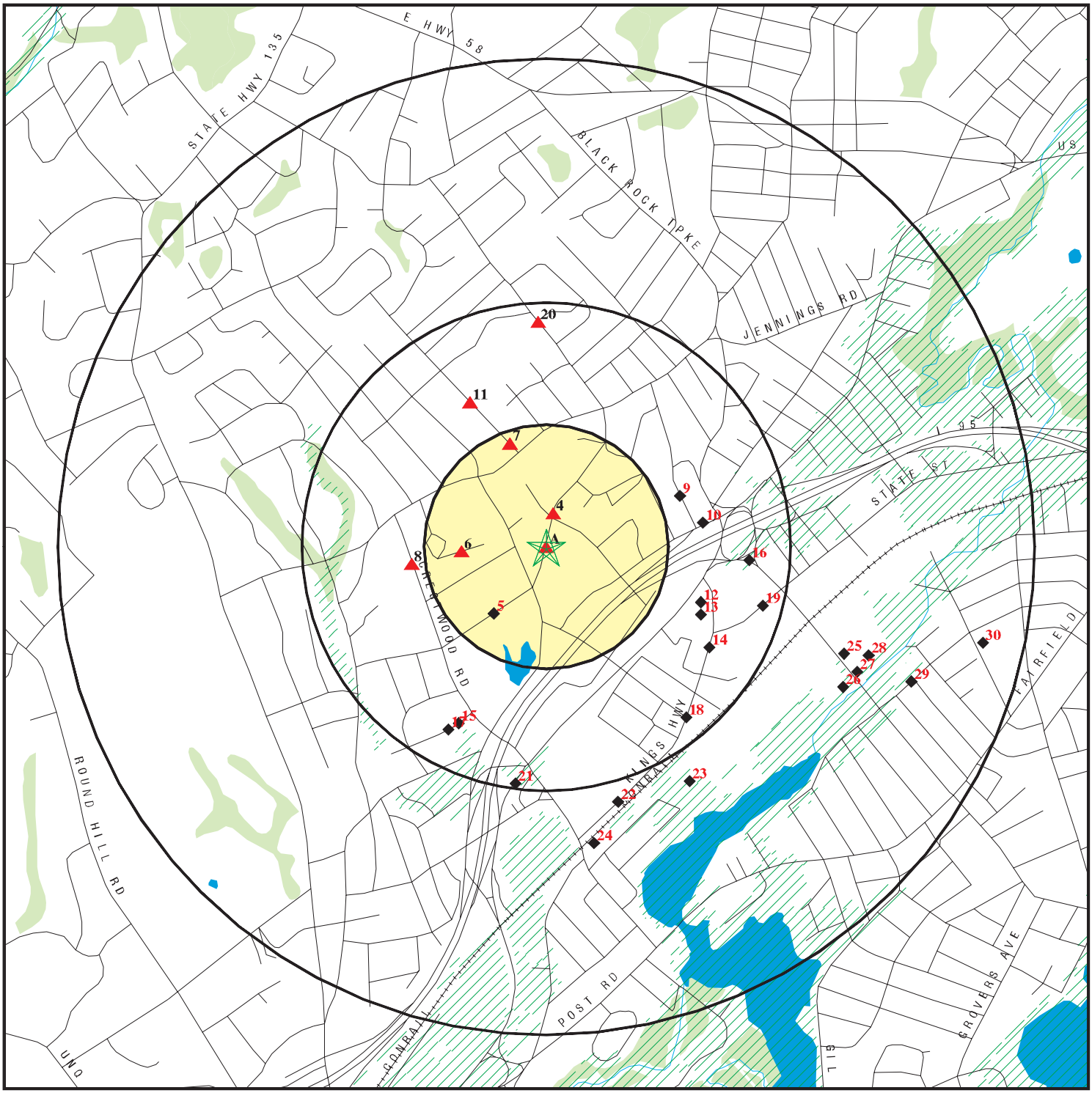
Lower Elevation	Address	Dist / Dir	Map ID	Page
CLARK METAL PRODUCTS	INDUSTRIAL PIT	1/4 - 1/2 ESE	12	39
CLARK METAL PRODUCTS	COOLING WTR -SURFACE	1/4 - 1/2 ESE	13	40
BULLARD DIVISION	LANDFILL	1/2 - 1 SSE	23	93
HANDY & HARMON	COOLING/IND DISCHRG	1/2 - 1 S	24	93
BJ'S WHOLESALE	LEAKING UNGRND TANK	1/2 - 1 ESE	25	94
BULLARD DIVISION	INDUSTRIAL PIT	1/2 - 1 ESE	26	94
BULLARD DIVISION	MISCELLANEOUS -SURF	1/2 - 1 ESE	27	94
Not reported	OIL/CHEMICAL SPILLS	1/2 - 1 ESE	30	100

EXECUTIVE SUMMARY

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

Site Name	Database(s)
PURSANT TO CT. GENERAL STATUTE 22A-4511 RESP.	CT MANIFEST
CONNECTICUT DEPARTMENT OF TRANSPORTATION	CT MANIFEST
STATE OF CONNECTICUT DOT	CT MANIFEST
CT STATE OF DOT	CT MANIFEST
CT. DEPT. OF TRANSPORTATION	CT MANIFEST
CT. DEPT. OF TRANSPORTATION	CT MANIFEST
CONN. DEPT. OF TRANSPORTATION	CT MANIFEST
CONN. DEPT. OF TRANSPORTATION	CT MANIFEST
SHELL STATION	CT Spills, CT MANIFEST
LIL SEAGAL	CT MANIFEST
GETTY	CT MANIFEST
GETTY	CT MANIFEST
SMITH RICHARD GOLF COURSE	NY MANIFEST
CT DEPT. OF TRANSPORTATION	CT MANIFEST
TOWN OF FAIRFIELD PUBLIC WORKS	CT MANIFEST
MERRITT PKWY.-EASTBOUND	CT MANIFEST
CLARK METAL PRODUCTS INC	SHWS, CT PROPERTY, SDADB
AT PUBLIC WORKS COMPLEX / STP	SWF/LF
FORMER SHELL FACILITY 136309	LUST, CT Spills, CT PROPERTY
MOBIL SERVICE STA.06-FD6	SDADB

OVERVIEW MAP - 01714247.140r

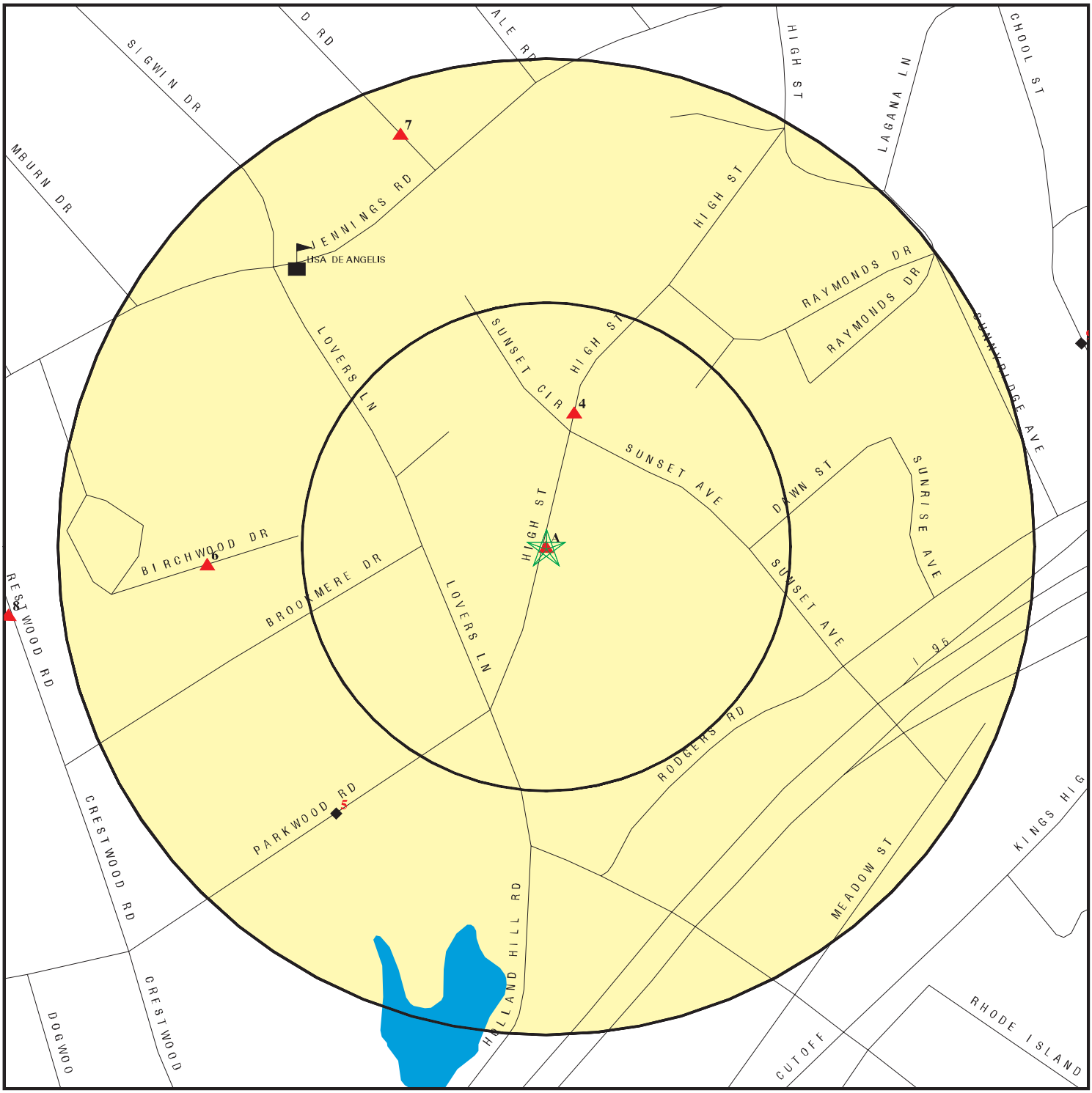


- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

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: 1LT John S. Turner USARC, CT ADDRESS: 180 HIGH STREET FAIRFIELD CT 06824 LAT/LONG: 41.1649 / 73.2424	CLIENT: CH2M Hill CONTACT: Mary Beth Jacques INQUIRY #: 01714247.140r DATE: July 12, 2006

DETAIL MAP - 01714247.140r



- 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
- Landfill Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone

0 1/16 1/8 1/4 Miles

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: 1LT John S. Turner USARC, CT ADDRESS: 180 HIGH STREET FAIRFIELD CT 06824 LAT/LONG: 41.1649 / 73.2424	CLIENT: CH2M Hill CONTACT: Mary Beth Jacques INQUIRY #: 01714247.140r DATE: July 12, 2006

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
FEDERAL RECORDS								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL RECOVERY		TP	NR	NR	NR	NR	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.500	0	0	0	NR	NR	0
CORRACTS		1.000	0	0	0	1	NR	1
RCRA TSD		0.500	0	0	0	NR	NR	0
RCRA Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRA Sm. Quan. Gen.		0.250	0	0	NR	NR	NR	0
ERNS		TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
STATE AND LOCAL RECORDS								
State Haz. Waste		1.000	0	0	0	2	NR	2
SDADB		0.500	0	0	1	NR	NR	1
State Landfill		0.500	0	0	0	NR	NR	0
SWRCY		0.500	0	0	0	NR	NR	0
LUST	X	0.500	1	3	11	NR	NR	15
LWDS		1.000	0	0	2	6	NR	8
UST	X	0.250	0	0	NR	NR	NR	0
AST		0.250	0	0	NR	NR	NR	0
MANIFEST		0.250	0	0	NR	NR	NR	0
CT Spills	X	TP	NR	NR	NR	NR	NR	0
AUL		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
BROWNFIELDS		0.500	0	0	0	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
ENF		TP	NR	NR	NR	NR	NR	0
CT Property		TP	NR	NR	NR	NR	NR	0
TRIBAL RECORDS								
INDIAN RESERV		1.000	0	0	0	0	NR	0
INDIAN LUST R1		0.500	0	0	0	NR	NR	0
INDIAN UST R1		0.250	0	0	NR	NR	NR	0
EDR PROPRIETARY RECORDS								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0
EDR Historical Auto Stations		TP	NR	NR	NR	NR	NR	0
EDR Historical Cleaners		TP	NR	NR	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **US ARMY RESERVES** **LUST** **S104238834**
Target **180 HIGH STREET** **N/A**
Property **FAIRFIELD, CT 06430**

Site 1 of 3 in cluster A

Actual:
89 ft.

LUST:

LUST Case Id:	31359
Cost Recovery Spill Case #:	Not reported
Site Case Id:	9803168
Old SITS Number:	Not reported
UST Site Id:	Not reported
LUST ID:	3310
Case Log Id:	Not reported
Monthly Report Id:	0
UST Facility Id:	5783
UST Owner Id:	7400
UST Event Id:	3346
Contact Info:	Not reported
Facility City Num:	51
Incident Date:	05/22/98
Entry Date:	Not reported
Site Contact:	Greg Snicer
Site Contact Address:	Roy F. Weston
Site Contact City,St,Zip:	0, XX
Site Contact Add 2:	Not reported
Site Contact City 2:	ZipCode Unknown
Site Contact Phone:	(603) 656-5400
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
2nd Contact:	Not reported
2nd Contact Address:	Not reported
2nd Contact City,St,Zip:	0
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported
2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Date Referred:	Not reported
Private Heating Fuel:	False
Commercial Heating Fuel:	True
Commercial HF < 2100 Gal.:	True
Commercial HF > 2100 Gal.:	True
Commercial HF - Size Unk:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other Release:	Not reported
No Release:	False
No LUST Site:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Cost Recvry Prgm Candidate:	False

US ARMY RESERVES (Continued) **S104238834**

OCSRD Complete:	True
Responsible Party:	False
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	0
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
LUST Owner Id:	Not reported
Investigator Id:	35
Follow Update:	Not reported
Lust Status:	Completed
Processing Status:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Effected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported

US ARMY RESERVES (Continued) **S104238834**

NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
Follow Up:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV COmments:	Not reported
Release Desc:	Not reported
Running Comments:	Not reported
Work Performed:	Not reported

A2 **CT Spills** **S106501620**
Target Property **180 HIGH STREET, US ARMY RESERVE CE** **N/A**
FAIRFIELD, CT

Site 2 of 3 in cluster A

Actual: 89 ft.

SPILL:

Year of Database:	5/22/1998 0:00:00	Case Number:	9803168
Who Took Spill:	916	Assigned To:	0
Report Date:	5/22/1998 0:00:00	Report Time:	12/30/1899 16:00:00
Date Release:	5/12/1998 0:00:00	Time Responded:	12/30/1899 16:00:00
Reported By:	GREG SNICER	Phone:	603 6565400
Representing:	ROY F. WESTON		
Terminated:	YES	Recovd (Total):	0.00
Total (Water):	0.00	Facility Status:	Closed
Date Responded:	Not reported	Time Responded:	Not reported

Who Assigned Spill:	Not reported
Continuous Spill:	No
Released Substance:	#2 FUEL OIL
Qty:	0.00 (Gallons)
Emergency Measure:	1000 GAL FIBERGLASS UST AND A 5000 GALLON STEEL UST REMOVED, TOLUENE 18 PPB, TPH 272 PPM, PYRENE 126 PPB
Water Body:	Not reported
Discharger:	US ARMY RESERVES

(Continued) **S106501620**

Telephone:	Not reported
Discharger Addr:	Not reported
Dicharger City,St,Zip:	Not reported
Responsible Party:	YES
RP Address 1:	Not reported
RP City,St,Zip:	CT
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Address:	Not reported
Property Owner 1 City,ST,Zip:	Not reported

Historic:	No	Waterbody:	0
Qty Rec Water:	Not reported	Waterway:	Not reported
OPA:	Not reported	EPA:	Not reported
EPA Time:	Not reported	EPA Date:	Not reported
EPA Contact:	Not reported		
USCG Contact:	Not reported	USCG:	Not reported
USCG Time:	Not reported	USCG Date:	Not reported
Spill Fund:	Not reported	Authorized By:	Not reported
Date Authorized:	Not reported	Time Authorized:	Not reported
OCSRD Rep:	Not reported	Accepted By:	Not reported
Time Authorized:	Not reported	Date Accepted:	Not reported
Transportation:	Not reported	Make:	Not reported
Registration:	Not reported	Tractor No:	Not reported
Trailer Registrtn:	Not reported		
Vehicle Operator:	Not reported	License No:	Not reported
Vehicle Owner:	Not reported	Owner Phone:	Not reported
Special Contact:	Not reported	Contractor Retained:	Not reported
Time Requested:	Not reported	Date Requested:	Not reported
Date Arrived:	Not reported	Time Arrived:	Not reported
Time Stamp:	5/26/1998 14:23:42		
Sr Inspector:	Stavola, Rosanne	At Inspctor:	**NO RESPONSE
Sign 1:	Not reported	Sign 2:	Not reported
Sign 3:	Not reported	Sign 4:	Not reported
Sign 5:	Not reported	Sign 6:	Not reported
Sign 7:	Not reported	User Stamp:	Not reported
Action ID:	17		
Other Action:	Not reported		
Agency ID:	9		
Other Agency:	Not reported		
DEP Bureau:	BUREAU OF WASTE MANAGEMENT		
DEP Agency:	OIL AND CHEMICAL SPILL RESPONSE		
Cause ID:	3		
Other Cause:	Not reported		
Media ID:	4		
Other Media:	Not reported		
Class ID:	Not reported		
Other Class:	Not reported		
Release ID:	1		
Other Release:	Not reported		
Waterbody ID:	Not reported		
Other Wtrbody:	Not reported		

A3 **FAIRFIELD, USAR CENTER** **UST** **U002174573**
Target **180 HIGH STREET** **N/A**
Property **FAIRFIELD, CT 06430**

Site 3 of 3 in cluster A

Actual:
89 ft.

UST:

Owner:	UNITED STATES ARMY
Owner Address:	MA AFZD-DEQ BOX 10
Owner City,St,Zip:	Ft Devens, MA 01433
Facility Id:	5783
Alt. Facility ID:	51-5783
Latitude Degrees:	4
Latitude Minutes:	19
Latitude Seconds:	49
Longitude Degrees:	73
Longitude Minutes:	14
Longitude Seconds:	54
Tank ID:	2
Alt. Tank ID:	B-1
Tank Status:	**Permanently Out of Use**
Capacity:	1000
Substance:	Heating Oil
Date Last Used:	02/01/90
Closure Status:	**Tank removed from ground**
Tank Material:	Asphalt Coated or Bare Steel
2ndary Material:	None
Pipe Material:	Bare Steel
Pipe Mode Description:	None
Date Installed:	06/01/50
Spill Installed:	False
Overfill Installed:	True

Owner:	UNITED STATES ARMY
Owner Address:	MA AFZD-DEQ BOX 10
Owner City,St,Zip:	Ft Devens, MA 01433
Facility Id:	5783
Alt. Facility ID:	51-5783
Latitude Degrees:	4
Latitude Minutes:	19
Latitude Seconds:	49
Longitude Degrees:	73
Longitude Minutes:	14
Longitude Seconds:	54
Tank ID:	4
Alt. Tank ID:	D1
Tank Status:	**Permanently Out of Use**
Capacity:	1000
Substance:	Heating Oil
Date Last Used:	05/01/98
Closure Status:	**Tank removed from ground**
Tank Material:	Fiberglass Reinforced Plastic
2ndary Material:	None
Pipe Material:	Not Listed
Pipe Mode Description:	None
Date Installed:	01/01/90
Spill Installed:	False
Overfill Installed:	False

FAIRFIELD, USAR CENTER (Continued) **U002174573**

Owner:	UNITED STATES ARMY
Owner Address:	MA AFZD-DEQ BOX 10
Owner City,St,Zip:	Ft Devens, MA 01433
Facility Id:	5783
Alt. Facility ID:	51-5783
Latitude Degrees:	4
Latitude Minutes:	19
Latitude Seconds:	49
Longitude Degrees:	73
Longitude Minutes:	14
Longitude Seconds:	54
Tank ID:	3
Alt. Tank ID:	C-1
Tank Status:	**Permanently Out of Use**
Capacity:	5000
Substance:	Heating Oil
Date Last Used:	05/01/98
Closure Status:	**Tank removed from ground**
Tank Material:	Asphalt Coated or Bare Steel
2ndary Material:	None
Pipe Material:	Bare Steel
Pipe Mode Description:	None
Date Installed:	06/01/50
Spill Installed:	False
Overfill Installed:	True

Owner:	UNITED STATES ARMY
Owner Address:	MA AFZD-DEQ BOX 10
Owner City,St,Zip:	Ft Devens, MA 01433
Facility Id:	5783
Alt. Facility ID:	51-5783
Latitude Degrees:	4
Latitude Minutes:	19
Latitude Seconds:	49
Longitude Degrees:	73
Longitude Minutes:	14
Longitude Seconds:	54
Tank ID:	1
Alt. Tank ID:	A-1
Tank Status:	**Permanently Out of Use**
Capacity:	1000
Substance:	Used Oil
Date Last Used:	12/01/91
Closure Status:	**Removed**
Tank Material:	Asphalt Coated or Bare Steel
2ndary Material:	None
Pipe Material:	Bare Steel
Pipe Mode Description:	None
Date Installed:	02/01/84
Spill Installed:	False
Overfill Installed:	True

4
NNE
< 1/8
371 ft.

ARMY RESERVE
182 HIGH ST.
FAIRFIELD, CT 06430

LUST

S105456045
N/A

Relative:
Higher

Actual:
97 ft.

LUST:

LUST Case Id:	28254
Cost Recovery Spill Case #:	Not reported
Site Case Id:	Not reported
Old SITS Number:	Not reported
UST Site Id:	Not reported
LUST ID:	228
Case Log Id:	Not reported
Monthly Report Id:	0
UST Facility Id:	5783
UST Owner Id:	7400
UST Event Id:	227
Contact Info:	Not reported
Facility City Num:	51
Incident Date:	03/01/90
Entry Date:	Not reported
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact City,St,Zip:	0
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
2nd Contact:	Not reported
2nd Contact Address:	Not reported
2nd Contact City,St,Zip:	0
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported
2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Date Referred:	Not reported
Private Heating Fuel:	False
Commercial Heating Fuel:	True
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other Release:	Not reported
No Release:	False
No LUST Site:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	False

ARMY RESERVE (Continued) **S105456045**

Responsible Party:	False
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	0
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
LUST Owner Id:	Not reported
Investigator Id:	28
Follow Update:	Not reported
Lust Status:	Completed
Processing Status:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Effected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported

ARMY RESERVE (Continued) **S105456045**

NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Kelly McShea
Date Stamp:	08/17/04
Correspondence:	Not reported
Environmental Impact:	Not reported
Follow Up:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV COmments:	Not reported
Release Desc:	Not reported
Running Comments:	Not reported
Work Performed:	Not reported

---

5 **UNKNOWN** **LUST** **S103154434**
SW **90 PARKWOOD ROAD** **CT Spills** **N/A**
1/8-1/4 **FAIRFIELD, CT 06430**
918 ft.

Relative:
Lower

Actual:
72 ft.

LUST:

LUST Case Id:	32320
Cost Recovery Spill Case #:	Not reported
Site Case Id:	9603373
Old SITS Number:	Not reported
UST Site Id:	Not reported
LUST ID:	4148
Case Log Id:	Not reported
Monthly Report Id:	0
UST Facility Id:	Not reported
UST Owner Id:	Not reported
UST Event Id:	4247
Contact Info:	Not reported
Facility City Num:	51
Incident Date:	07/05/96
Entry Date:	Not reported
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact City,St,Zip:	0
Site Contact Add 2:	Not reported

UNKNOWN (Continued) **S103154434**

Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
2nd Contact:	Not reported
2nd Contact Address:	Not reported
2nd Contact City,St,Zip:	0
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported
2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Date Referred:	Not reported
Private Heating Fuel:	True
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other Release:	Not reported
No Release:	False
No LUST Site:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	True
Responsible Party:	False
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	0
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
LUST Owner Id:	Not reported
Investigator Id:	28
Follow Update:	Not reported
Lust Status:	Cleanup Initiated
Processing Status:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Effected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported

UNKNOWN (Continued) **S103154434**

Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported

UNKNOWN (Continued) **S103154434**

Correspondence:	Not reported
Environmental Impact:	Not reported
Follow Up:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV COmments:	Not reported
Release Desc:	Not reported
Running Comments:	#2 HEATING OIL, , #2 OIL
Work Performed:	Not reported

SPILL:

Year of Database:	9/5/1996 0:00:00	Case Number:	9603373
Who Took Spill:	917	Assigned To:	922
Report Date:	7/5/1996 0:00:00	Report Time:	12/30/1899 15:40:00
Date Release:	7/5/1996 0:00:00	Time Responded:	Not reported
Reported By:	ANTHONY PONTBERK	Phone:	2598845
Representing:	OWNER		
Terminated:	YES	Recovd (Total):	0.00
Total (Water):	0.00	Facility Status:	CLOSED
Date Responded:	Not reported	Time Responded:	Not reported

Who Assigned Spill:	Not reported
Continuous Spill:	No
Released Substance:	#2 FUEL OIL
Qty:	0.00 (Gallons)
Emergency Measure:	#2 OIL
Water Body:	Not reported
Discharger:	Not reported
Telephone:	Not reported
Discharger Addr:	Not reported
Dicharger City,St,Zip:	Not reported
Responsible Party:	YES
RP Address 1:	Not reported
RP City,St,Zip:	CT
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Address:	Not reported
Property Owner 1 City,ST,Zip:	Not reported

Historic:	No	Waterbody:	0
Qty Rec Water:	Not reported	Waterway:	Not reported
OPA:	Not reported	EPA:	Not reported
EPA Time:	Not reported	EPA Date:	Not reported
EPA Contact:	Not reported		
USCG Contact:	Not reported	USCG:	Not reported
USCG Time:	Not reported	USCG Date:	Not reported
Spill Fund:	Not reported	Authorized By:	Not reported
Date Authorized:	Not reported	Time Authorized:	Not reported
OCSRD Rep:	Not reported	Accepted By:	Not reported
Time Authorized:	Not reported	Date Accepted:	Not reported
Transportation:	Not reported	Make:	Not reported
Registration:	Not reported	Tractor No:	Not reported
Trailer Registrtn:	Not reported		
Vehicle Operator:	Not reported	License No:	Not reported
Vehicle Owner:	Not reported	Owner Phone:	Not reported
Special Contact:	Not reported	Contractor Retained	Not reported
Time Requested:	Not reported	Date Requested:	Not reported
Date Arrived:	Not reported	Time Arrived:	Not reported
Time Stamp:	7/1/1997 8:31:11		

UNKNOWN (Continued) **S103154434**

Sr Inspector:	Emanuelson, Brian	At Inspctor:	Aceto, John
Sign 1:	Not reported	Sign 2:	Not reported
Sign 3:	Not reported	Sign 4:	Not reported
Sign 5:	Not reported	Sign 6:	Not reported
Sign 7:	Not reported	User Stamp:	Not reported
Action ID:	18		
Other Action:	Not reported		
Agency ID:	Not reported		
Other Agency:	Not reported		
DEP Bureau:	Not reported		
DEP Agency:	Not reported		
Cause ID:	3		
Other Cause:	Not reported		
Media ID:	Not reported		
Other Media:	Not reported		
Class ID:	Not reported		
Other Class:	Not reported		
Release ID:	1		
Other Release:	Not reported		
Waterbody ID:	Not reported		
Other Wtrbody:	Not reported		

---

6 **SCHON PROPERTY** **LUST** **S105457188**
West **164 BIRCHWOOD RD.** **N/A**
1/8-1/4 **FAIRFIELD, CT 06430**
918 ft.

Relative:
Higher

Actual:
90 ft.

LUST:

LUST Case Id:	30395
Cost Recovery Spill Case #:	Not reported
Site Case Id:	Not reported
Old SITS Number:	Not reported
UST Site Id:	Not reported
LUST ID:	2324
Case Log Id:	Not reported
Monthly Report Id:	0
UST Facility Id:	Not reported
UST Owner Id:	Not reported
UST Event Id:	2323
Contact Info:	Not reported
Facility City Num:	51
Incident Date:	06/01/94
Entry Date:	Not reported
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact City,St,Zip:	0
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
2nd Contact:	Not reported
2nd Contact Address:	Not reported
2nd Contact City,St,Zip:	0
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported
2nd Contact Fax Number:	Not reported

SCHON PROPERTY (Continued) **S105457188**

2nd Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Date Referred:	Not reported
Private Heating Fuel:	True
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other Release:	Not reported
No Release:	False
No LUST Site:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	False
Responsible Party:	False
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	0
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
LUST Owner Id:	Not reported
Investigator Id:	24
Follow Update:	Not reported
Lust Status:	Investigation
Processing Status:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Effected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported

SCHON PROPERTY (Continued) **S105457188**

Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
Follow Up:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV COmments:	Not reported
Release Desc:	Not reported
Running Comments:	Not reported
Work Performed:	Not reported

7
NNW
1/8-1/4
1185 ft.

MR. SAMUEL DECARO
29 JENIFORD ROAD
FAIRFIELD, CT 06430

LUST
CT Spills

S105444498
N/A

Relative:
Higher

Actual:
105 ft.

LUST:

LUST Case Id:	32103
Cost Recovery Spill Case #:	Not reported
Site Case Id:	9904068
Old SITS Number:	Not reported
UST Site Id:	Not reported
LUST ID:	8399
Case Log Id:	Not reported
Monthly Report Id:	0
UST Facility Id:	Not reported
UST Owner Id:	Not reported
UST Event Id:	8580
Contact Info:	Not reported
Facility City Num:	51
Incident Date:	06/23/99
Entry Date:	Not reported
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact City,St,Zip:	0
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
2nd Contact:	Not reported
2nd Contact Address:	Not reported
2nd Contact City,St,Zip:	0
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported
2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Date Referred:	Not reported
Private Heating Fuel:	True
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other Release:	Not reported
No Release:	False
No LUST Site:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	True

MR. SAMUEL DECARO (Continued) **S105444498**

Responsible Party:	False
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	0
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
LUST Owner Id:	Not reported
Investigator Id:	35
Follow Update:	Not reported
Lust Status:	Completed
Processing Status:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Effected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported

MR. SAMUEL DECARO (Continued) **S105444498**

NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
Follow Up:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV COmments:	Not reported
Release Desc:	Not reported
Running Comments:	550, Heating Oil, PRIVATE, REMOVAL OF A 550 - GALLON L.U.S.T. / SOIL CONTAMINATION NOT ADDRESSED / FIRE MARSHAL ON SITE (SEE OCSRD# 9904148 tank and soil removal no free product city water 550 l.
Work Performed:	Not reported

SPILL:

Year of Database:	6/23/1999 0:00:00	Case Number:	9904068
Who Took Spill:	922	Assigned To:	0
Report Date:	6/23/1999 0:00:00	Report Time:	6/23/1999 9:12:53
Date Release:	6/10/1999 0:00:00	Time Responded:	Not reported
Reported By:	LT. GEORGE MULLIGAN	Phone:	203 2544700
Representing:	FAIRFIELD FIRE DEPARTMENT		
Terminated:	YES	Recovd (Total):	0.00
Total (Water):	0.00	Facility Status:	closed
Date Responded:	Not reported	Time Responded:	Not reported

Who Assigned Spill:	Not reported
Continuous Spill:	No
Released Substance:	#2 FUEL OIL
Qty:	0.00 (Gallons)
Emergency Measure:	REMOVAL OF A 550 - GALLON L.U.S.T. / SOIL CONTAMINATION NOT ADDRESSED / FIRE MARSHAL ON SITE
Water Body:	NA
Discharger:	MR. SAMUEL DECARO
Telephone:	Not reported
Discharger Addr:	Not reported
Dicharger City,St,Zip:	Not reported
Responsible Party:	NO

MR. SAMUEL DECARO (Continued) **S105444498**

RP Address 1:	644 REEF ROAD		
RP City,St,Zip:	FAIRFIELD, CT 06430		
Property Owner Name:	Not reported		
Property Owner Phone:	Not reported		
Property Owner Address:	Not reported		
Property Owner 1 City,ST,Zip:	Not reported		
Historic:	No	Waterbody:	0
Qty Rec Water:	Not reported	Waterway:	Not reported
OPA:	Not reported	EPA:	Not reported
EPA Time:	Not reported	EPA Date:	Not reported
EPA Contact:	Not reported		
USCG Contact:	Not reported	USCG:	Not reported
USCG Time:	Not reported	USCG Date:	Not reported
Spill Fund:	Not reported	Authorized By:	Not reported
Date Authorized:	Not reported	Time Authorized:	Not reported
OCSRD Rep:	Not reported	Accepted By:	Not reported
Time Authorized:	Not reported	Date Accepted:	Not reported
Transportation:	Not reported	Make:	Not reported
Registration:	Not reported	Tractor No:	Not reported
Trailer Registrtn:	Not reported		
Vehicle Operator:	Not reported	License No:	Not reported
Vehicle Owner:	Not reported	Owner Phone:	Not reported
Special Contact:	Not reported	Contractor Retained:	Not reported
Time Requested:	Not reported	Date Requested:	Not reported
Date Arrived:	Not reported	Time Arrived:	Not reported
Time Stamp:	6/23/1999 9:16:33		
Sr Inspector:	Aceto, John	At Inspctor:	**NO RESPONSE
Sign 1:	Not reported	Sign 2:	Not reported
Sign 3:	Not reported	Sign 4:	Not reported
Sign 5:	Not reported	Sign 6:	Not reported
Sign 7:	Not reported	User Stamp:	Not reported
Action ID:	4		
Other Action:	Not reported		
Action ID:	17		
Other Action:	Not reported		
Agency ID:	3		
Other Agency:	Not reported		
DEP Bureau:	Not reported		
DEP Agency:	Not reported		
Agency ID:	9		
Other Agency:	Not reported		
DEP Bureau:	BUREAU OF WASTE MANAGEMENT		
DEP Agency:	OIL AND CHEMICAL SPILL RESPONSE		
Cause ID:	3		
Other Cause:	Not reported		
Media ID:	4		
Other Media:	Not reported		
Class ID:	6		
Other Class:	Not reported		
Release ID:	1		
Other Release:	Not reported		
Waterbody ID:	Not reported		
Other Wtrbody:	Not reported		

8
West
1/4-1/2
1465 ft.

RICHARD FORD
438 CRESTWOOD
FAIRFIELD, CT 06430

LUST
CT Spills

S103159107
N/A

Relative:
Higher

Actual:
94 ft.

LUST:

LUST Case Id:	32880
Cost Recovery Spill Case #:	Not reported
Site Case Id:	9701793
Old SITS Number:	Not reported
UST Site Id:	Not reported
LUST ID:	4755
Case Log Id:	Not reported
Monthly Report Id:	0
UST Facility Id:	Not reported
UST Owner Id:	Not reported
UST Event Id:	4864
Contact Info:	Not reported
Facility City Num:	51
Incident Date:	04/14/97
Entry Date:	Not reported
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact City,St,Zip:	0
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
2nd Contact:	Not reported
2nd Contact Address:	Not reported
2nd Contact City,St,Zip:	0
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported
2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Date Referred:	Not reported
Private Heating Fuel:	True
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other Release:	Not reported
No Release:	False
No LUST Site:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	True

RICHARD FORD (Continued) **S103159107**

Responsible Party:	False
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	0
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
LUST Owner Id:	Not reported
Investigator Id:	35
Follow Update:	Not reported
Lust Status:	Completed
Processing Status:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Effected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported

RICHARD FORD (Continued) **S103159107**

NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
Follow Up:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV COmments:	Not reported
Release Desc:	Not reported
Running Comments:	#2 HEATING OIL, , contracted tank and soil removal
Work Performed:	Not reported

SPILL:

Year of Database:	4/14/1997 0:00:00	Case Number:	9701793
Who Took Spill:	936	Assigned To:	0
Report Date:	4/14/1997 0:00:00	Report Time:	4/14/1997 15:38:58
Date Release:	4/14/1997 0:00:00	Time Responded:	Not reported
Reported By:	charles mcgoldrick	Phone:	203 2550189
Representing:	mcgoldrick fuel		
Terminated:	YES	Recovd (Total):	0.00
Total (Water):	0.00	Facility Status:	Closed
Date Responded:	Not reported	Time Responded:	Not reported

Who Assigned Spill:	Not reported
Continuous Spill:	No
Released Substance:	#2 FUEL OIL
Qty:	0.00 (Gallons)
Emergency Measure:	conracted tank and soil removal
Water Body:	Not reported
Discharger:	richard ford
Telephone:	203 2559077
Discharger Addr:	Not reported
Dicharger City,St,Zip:	Not reported
Responsible Party:	YES
RP Address 1:	438 crestwood
RP City,St,Zip:	FAIRFIELD, CT 06430
Property Owner Name:	Not reported

RICHARD FORD (Continued) **S103159107**

Property Owner Phone:	Not reported		
Property Owner Address:	Not reported		
Property Owner 1 City,ST,Zip:	Not reported		
Historic:	No	Waterbody:	0
Qty Rec Water:	Not reported	Waterway:	Not reported
OPA:	Not reported	EPA:	Not reported
EPA Time:	Not reported	EPA Date:	Not reported
EPA Contact:	Not reported		
USCG Contact:	Not reported	USCG:	Not reported
USCG Time:	Not reported	USCG Date:	Not reported
Spill Fund:	Not reported	Authorized By:	Not reported
Date Authorized:	Not reported	Time Authorized:	Not reported
OCSRD Rep:	Not reported	Accepted By:	Not reported
Time Authorized:	Not reported	Date Accepted:	Not reported
Transportation:	Not reported	Make:	Not reported
Registration:	Not reported	Tractor No:	Not reported
Trailer Registrtn:	Not reported		
Vehicle Operator:	Not reported	License No:	Not reported
Vehicle Owner:	Not reported	Owner Phone:	Not reported
Special Contact:	Not reported	Contractor Retained:	Not reported
Time Requested:	Not reported	Date Requested:	Not reported
Date Arrived:	Not reported	Time Arrived:	Not reported
Time Stamp:	4/14/1997 15:46:36		
Sr Inspector:	Wofford, Ron	At Inspctor:	**NO RESPONSE
Sign 1:	Not reported	Sign 2:	Not reported
Sign 3:	Not reported	Sign 4:	Not reported
Sign 5:	Not reported	Sign 6:	Not reported
Sign 7:	Not reported	User Stamp:	Not reported
Action ID:	4		
Other Action:	Not reported		
Action ID:	17		
Other Action:	Not reported		
Action ID:	18		
Other Action:	Not reported		
Agency ID:	3		
Other Agency:	Not reported		
DEP Bureau:	Not reported		
DEP Agency:	Not reported		
Cause ID:	3		
Other Cause:	Not reported		
Media ID:	6		
Other Media:	ground subsurface		
Class ID:	Not reported		
Other Class:	Not reported		
Release ID:	1		
Other Release:	Not reported		
Waterbody ID:	Not reported		
Other Wtrbody:	Not reported		

9
ENE
1/4-1/2
1547 ft.

LEAHY RES.
108 BLACKROCK AVE.
FAIRFIELD, CT 06430

LUST
CT Spills

S104311651
N/A

Relative:
Lower

Actual:
55 ft.

LUST:

LUST Case Id:	37154
Cost Recovery Spill Case #:	Not reported
Site Case Id:	9907060
Old SITS Number:	Not reported
UST Site Id:	Not reported
LUST ID:	9128
Case Log Id:	Not reported
Monthly Report Id:	0
UST Facility Id:	Not reported
UST Owner Id:	Not reported
UST Event Id:	9309
Contact Info:	Not reported
Facility City Num:	51
Incident Date:	10/15/99
Entry Date:	Not reported
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact City,St,Zip:	0
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
2nd Contact:	Not reported
2nd Contact Address:	Not reported
2nd Contact City,St,Zip:	0
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported
2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Date Referred:	Not reported
Private Heating Fuel:	True
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other Release:	Not reported
No Release:	False
No LUST Site:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	True

LEAHY RES. (Continued) **S104311651**

Responsible Party:	False
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	0
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
LUST Owner Id:	Not reported
Investigator Id:	35
Follow Update:	Not reported
Lust Status:	Completed
Processing Status:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Effected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported

LEAHY RES. (Continued) **S104311651**

NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
Follow Up:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV COmments:	Not reported
Release Desc:	Not reported
Running Comments:	550, Heating Oil, PRIVATE, 550 UST REMOVAL/CITY WATER ONSITE/TPH FROM SOIL BORING AT 8’ 12000 PPM
Work Performed:	Not reported

SPILL:

Year of Database:	10/15/1999 0:00:00	Case Number:	9907060
Who Took Spill:	917	Assigned To:	0
Report Date:	10/15/1999 0:00:00	Report Time:	10/15/1999 15:40:47
Date Release:	10/15/1999 0:00:00	Time Responded:	Not reported
Reported By:	ROB KELLERMAN	Phone:	203 3846020
Representing:	Self		
Terminated:	YES	Recovd (Total):	0.00
Total (Water):	0.00	Facility Status:	Closed
Date Responded:	Not reported	Time Responded:	Not reported

Who Assigned Spill:	Not reported
Continuous Spill:	No
Released Substance:	#2 FUEL OIL
Qty:	0.00 (Gallons)
Emergency Measure:	550 UST REMOVAL/CITY WATER ONSITE/TPH FROM SOIL BORING AT 8’ 12000 PPM
Water Body:	NA
Discharger:	LEAHY RES.
Telephone:	203 3681552
Discharger Addr:	Not reported
Dicharger City,St,Zip:	Not reported
Responsible Party:	YES
RP Address 1:	SAA
RP City,St,Zip:	SAA, CT

LEAHY RES. (Continued) **S104311651**

Property Owner Name:	Not reported		
Property Owner Phone:	Not reported		
Property Owner Address:	Not reported		
Property Owner 1 City,ST,Zip:	Not reported		
Historic:	No	Waterbody:	0
Qty Rec Water:	Not reported	Waterway:	Not reported
OPA:	Not reported	EPA:	Not reported
EPA Time:	Not reported	EPA Date:	Not reported
EPA Contact:	Not reported		
USCG Contact:	Not reported	USCG:	Not reported
USCG Time:	Not reported	USCG Date:	Not reported
Spill Fund:	Not reported	Authorized By:	Not reported
Date Authorized:	Not reported	Time Authorized:	Not reported
OCSRD Rep:	Not reported	Accepted By:	Not reported
Time Authorized:	Not reported	Date Accepted:	Not reported
Transportation:	Not reported	Make:	Not reported
Registration:	Not reported	Tractor No:	Not reported
Trailer Registrtn:	Not reported		
Vehicle Operator:	Not reported	License No:	Not reported
Vehicle Owner:	Not reported	Owner Phone:	Not reported
Special Contact:	Not reported	Contractor Retained:	Not reported
Time Requested:	Not reported	Date Requested:	Not reported
Date Arrived:	Not reported	Time Arrived:	Not reported
Time Stamp:	10/18/1999 12:21:52		
Sr Inspector:	Emanuelson, Brian	At Inspctor:	**NO RESPONSE
Sign 1:	Not reported	Sign 2:	Not reported
Sign 3:	Not reported	Sign 4:	Not reported
Sign 5:	Not reported	Sign 6:	Not reported
Sign 7:	Not reported	User Stamp:	Not reported
Action ID:	17		
Other Action:	Not reported		
Action ID:	20		
Other Action:	SOIL TO BE REMOVED IN TWO WEEEKS		
Agency ID:	3		
Other Agency:	Not reported		
DEP Bureau:	Not reported		
DEP Agency:	Not reported		
Agency ID:	9		
Other Agency:	Not reported		
DEP Bureau:	BUREAU OF WASTE MANAGEMENT		
DEP Agency:	OIL AND CHEMICAL SPILL RESPONSE		
Cause ID:	3		
Other Cause:	Not reported		
Media ID:	6		
Other Media:	SOIL SUBSURFACE		
Class ID:	6		
Other Class:	Not reported		
Release ID:	1		
Other Release:	Not reported		
Waterbody ID:	9		
Other Wtrbody:	NA		

10
East
1/4-1/2
1715 ft.

COCA COLA
BLACK ROCK TPKE.
FAIRFIELD, CT 06430

LUST

S102413526
N/A

Relative:
Lower

Actual:
34 ft.

LUST:

LUST Case Id:	28259
Cost Recovery Spill Case #:	Not reported
Site Case Id:	Not reported
Old SITS Number:	9304489
UST Site Id:	229
LUST ID:	233
Case Log Id:	Not reported
Monthly Report Id:	0
UST Facility Id:	5286
UST Owner Id:	2821
UST Event Id:	232
Contact Info:	Not reported
Facility City Num:	51
Incident Date:	08/25/93
Entry Date:	Not reported
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact City,St,Zip:	0
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
2nd Contact:	Not reported
2nd Contact Address:	Not reported
2nd Contact City,St,Zip:	0
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported
2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Date Referred:	Not reported
Private Heating Fuel:	False
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
Motor Fuel:	True
Diesel:	True
Gasoline:	True
Other Release:	Not reported
No Release:	False
No LUST Site:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	False

COCA COLA (Continued) **S102413526**

Responsible Party:	False
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	0
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
LUST Owner Id:	Not reported
Investigator Id:	28
Follow Update:	Not reported
Lust Status:	Completed
Processing Status:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Effected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported

COCA COLA (Continued) **S102413526**

NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Waste Remediation
Date Stamp:	08/16/04
Correspondence:	Not reported
Environmental Impact:	Not reported
Follow Up:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV COmments:	Not reported
Release Desc:	Not reported
Running Comments:	UST Cleanup Fund ID: 229 Spill Report ID: 93-4489 The 8/25/93 report mentions the removal of 2-10k gasoline, and 1-10k diesel LUSTs and 200ydds3 of contaminated soil by Aaron Env. Based on analytical, the remaining soil in the tank grave willbe soil vented.
Work Performed:	Not reported

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11 **MRS. BUDNICK** **LUST** **S105440368**
NNW **155 JENIFORD RD.** **CT Spills** **N/A**
1/4-1/2 **FAIRFIELD, CT 06430**
1768 ft.

Relative:
Higher

Actual:
128 ft.

LUST:

LUST Case Id:	34056
Cost Recovery Spill Case #:	Not reported
Site Case Id:	9803039
Old SITS Number:	Not reported
UST Site Id:	Not reported
LUST ID:	5931
Case Log Id:	Not reported
Monthly Report Id:	0
UST Facility Id:	Not reported
UST Owner Id:	Not reported
UST Event Id:	6046
Contact Info:	Not reported
Facility City Num:	51
Incident Date:	05/18/98
Entry Date:	Not reported
Site Contact:	Not reported

MRS. BUDNICK (Continued) **S105440368**

Site Contact Address:	Not reported
Site Contact City,St,Zip:	0
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
2nd Contact:	Not reported
2nd Contact Address:	Not reported
2nd Contact City,St,Zip:	0
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported
2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Date Referred:	Not reported
Private Heating Fuel:	True
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other Release:	Not reported
No Release:	False
No LUST Site:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	True
Responsible Party:	False
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	0
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
LUST Owner Id:	Not reported
Investigator Id:	35
Follow Update:	Not reported
Lust Status:	Completed
Processing Status:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported

MRS. BUDNICK (Continued) **S105440368**

Effected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported

MRS. BUDNICK (Continued) **S105440368**

Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
Follow Up:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV COmments:	Not reported
Release Desc:	Not reported
Running Comments:	#2 Fuel Oil, ,
Work Performed:	Not reported

SPILL:

Year of Database:	5/18/1998 0:00:00	Case Number:	9803039
Who Took Spill:	931	Assigned To:	0
Report Date:	5/18/1998 0:00:00	Report Time:	5/18/1998 12:28:22
Date Release:	5/18/1998 0:00:00	Time Responded:	12/30/1899 12:30:00
Reported By:	TOM MONK	Phone:	203 3846020
Representing:	CT. TANK REMOVAL		
Terminated:	YES	Recovd (Total):	0.00
Total (Water):	0.00	Facility Status:	Closed
Date Responded:	Not reported	Time Responded:	Not reported

Who Assigned Spill:	Not reported
Continuous Spill:	No
Released Substance:	#2 Fuel Oil
Qty:	0.00 (Gallons)
Emergency Measure:	Not reported
Water Body:	Not reported
Discharger:	MRS. BUDNICK
Telephone:	203 3678409
Discharger Addr:	Not reported
Dicharger City,St,Zip:	Not reported
Responsible Party:	Not reported
RP Address 1:	SAME
RP City,St,Zip:	CT
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Address:	Not reported
Property Owner 1 City,ST,Zip:	Not reported

Historic:	No	Waterbody:	0
Qty Rec Water:	Not reported	Waterway:	Not reported
OPA:	Not reported	EPA:	Not reported
EPA Time:	Not reported	EPA Date:	Not reported
EPA Contact:	Not reported		
USCG Contact:	Not reported	USCG:	Not reported
USCG Time:	Not reported	USCG Date:	Not reported
Spill Fund:	Not reported	Authorized By:	Not reported
Date Authorized:	Not reported	Time Authorized:	Not reported
OCSRD Rep:	Not reported	Accepted By:	Not reported
Time Authorized:	Not reported	Date Accepted:	Not reported
Transportation:	Not reported	Make:	Not reported
Registration:	Not reported	Tractor No:	Not reported
Trailer Registrtn:	Not reported		
Vehicle Operator:	Not reported	License No:	Not reported
Vehicle Owner:	Not reported	Owner Phone:	Not reported
Special Contact:	Not reported	Contractor Retained:	Not reported

MRS. BUDNICK (Continued) **S105440368**

Time Requested:	Not reported	Date Requested:	Not reported
Date Arrived:	Not reported	Time Arrived:	Not reported
Time Stamp:	5/19/1998 9:49:43		
Sr Inspector:	Coss, Brian	At Inspctor:	**NO RESPONSE
Sign 1:	Not reported	Sign 2:	Not reported
Sign 3:	Not reported	Sign 4:	Not reported
Sign 5:	Not reported	Sign 6:	Not reported
Sign 7:	Not reported	User Stamp:	Not reported
Action ID:	17		
Other Action:	Not reported		
Action ID:	18		
Other Action:	Not reported		
Agency ID:	3		
Other Agency:	Not reported		
DEP Bureau:	Not reported		
DEP Agency:	Not reported		
Cause ID:	3		
Other Cause:	Not reported		
Media ID:	4		
Other Media:	Not reported		
Class ID:	Not reported		
Other Class:	Not reported		
Release ID:	1		
Other Release:	Not reported		
Waterbody ID:	Not reported		
Other Wtrbody:	Not reported		

---

12 **CLARK METAL PRODUCTS** **LWDS** **W991102793**
ESE **INDUSTRIAL PIT** **N/A**
1/4-1/2 **, CT**
1777 ft.

Relative:
Lower

Actual:
35 ft.

LWDS:

ArcView Legend Symbology:	INDUST PIT
Leachate and Wastewater Number:	7106014
Status of the Discharge Activity:	INACTIVE
Leachate and Waste Flow:	GROUND
Feature Number on Hazardous Waste List:	158
Subregional Basin Feature Number:	7106
Name:	Clark Metal Products
Alias:	Not reported
Leachate and Wastewater Name:	INDUSTRIAL PIT
Description:	lagoon
Description 2:	Not reported
State Plane x:	866088
State Plane y:	620588
Longitude:	-73.23633
Latitude:	41.16326
Mercator y:	13138691.10184

13
ESE
1/4-1/2
1827 ft.

CLARK METAL PRODUCTS
COOLING WTR -SURFACE
, CT

LWDS

W991102794
N/A

Relative:
Lower

Actual:
41 ft.

LWDS:

ArcView Legend Symbology:	COOL WTR-S
Leachate and Wastewater Number:	7106008
Status of the Discharge Activity:	INACTIVE
Leachate and Waste Flow:	SURFACE
Feature Number on Hazardous Waste List:	158
Subregional Basin Feature Number:	7106
Name:	Clark Metal Products
Alias:	Not reported
Leachate and Wastewater Name:	COOLING WTR -SURFACE
Description:	cooling water discharge
Description 2:	Not reported
State Plane x:	866087
State Plane y:	620452
Longitude:	-73.23633
Latitude:	41.16289
Mercator y:	13138546.0017

14
ESE
1/4-1/2
2073 ft.

ROLOCK INC.
1350 KINGS HIGHWAY
FAIRFIELD, CT 06430

UST
SDADB

U003540345
N/A

Relative:
Lower

Actual:
48 ft.

Facility ID:	863
Rem ID:	Not reported
PTP Id:	Not reported
WPC Number:	Not reported
Postal District:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Lat/Long Determined By:	Not reported
Ground Water Quality Classification:	Not reported
Surface Water Quality Classification:	Not reported
Waste Type:	CHEMICAL LIQUID, SLUDGES
Disposal:	Not reported
Sample Data Available:	No
Updated By:	Not reported
Update Program:	Not reported
Updated:	Not reported
Duplicate:	No
EPA CERCLIS Id:	Not reported
Number EPA RCRIS Id:	Not reported
Site on EPA's CERCLIS:	Not reported
Site Archived from CERCLIS:	Not reported
Archive Date:	Not reported
EPA's Removal at Site:	Not reported
Deferred to another EPA Program:	Not reported
EPA Env Priority Initiative Site:	Not reported
Federal Facility:	Not reported
Site on EPA's National Priority List:	Not reported
Part of an NPL site:	Not reported
RCRA Generator Status:	Not reported
RCRA Permit Status:	Not reported
Referral Id:	815
Source of referral:	ISWS

ROLOCK INC. (Continued) **U003540345**

Date Received:	5/18/1990
Staff Assigned:	Not reported
Remediation Program:	Not reported
Date assigned:	Not reported
Remediation Complete Approved DEP/Verified by LEP:	Not reported
Outcome:	Not reported
Remedial Id:	Not reported
PTP Id:	Not reported
Remediation Program:	Not reported
Remediation Program Entered:	Not reported
Staff Assigned:	Not reported
Remediation Program:	Not reported
Date assigned:	Not reported
Project Phase:	Not reported
Order issued:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Remedial Investigation Start:	Not reported
Remedial Investigation Completed:	Not reported
Remedial Design Start:	Not reported
Remedial Design complet:	Not reported
Remedial Action Start:	Not reported
Remedial Action Completed:	Not reported
Date Oper/ maintenance Started:	Not reported
GW monitoring:	Not reported
Remediation complete Approved DEP/Verified by LEP:	Not reported
Order Id:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Staff Assigned:	Not reported
Type of Order:	Not reported
Order Respondent:	Not reported
Admin Appeal Date:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Final Order:	Not reported
Date of Court Appeal:	Not reported
Date of Court Ruling:	Not reported
Date of Court Ruling:	Not reported
Date Order Modified:	Not reported
Date Order Revoked:	Not reported
Date Referred to AG:	Not reported
Judgement:	Not reported
Date of AGR judgement:	Not reported
Penalty assessed:	Not reported
Order Complete:	Not reported
In compliance:	Not reported
Orders Comment:	Not reported
Comments:	Not reported

UST:

Owner:	ROLOCK INC
Owner Address:	1350 KINGS HIGHWAY
Owner City,St,Zip:	Fairfield, CT 06430
Facility Id:	11029
Alt. Facility ID:	51-11029
Latitude Degrees:	0

ROLOCK INC. (Continued) **U003540345**

Latitude Minutes:	40
Latitude Seconds:	11
Longitude Degrees:	7
Longitude Minutes:	14
Longitude Seconds:	51
Tank ID:	1
Alt. Tank ID:	A-1
Tank Status:	**Currently In Use**
Capacity:	5000
Substance:	Heating Oil
Date Last Used:	/ /
Closure Status:	**Not reported**
Tank Material:	Fiberglass Reinforced Plastic
2ndary Material:	None
Pipe Material:	Other
Pipe Mode Description:	None
Date Installed:	08/01/89
Spill Installed:	False
Overfill Installed:	False

---

15 **RITA FALVEY** **LUST** **S103159832**
SSW **35 QUAKER LA.** **CT Spills** **N/A**
1/4-1/2 **FAIRFIELD, CT 06430**
2130 ft.

Relative:
Lower

Actual:
34 ft.

LUST:

LUST Case Id:	33018
Cost Recovery Spill Case #:	Not reported
Site Case Id:	9702581
Old SITS Number:	Not reported
UST Site Id:	Not reported
LUST ID:	4893
Case Log Id:	Not reported
Monthly Report Id:	0
UST Facility Id:	Not reported
UST Owner Id:	Not reported
UST Event Id:	5004
Contact Info:	Not reported
Facility City Num:	51
Incident Date:	05/21/97
Entry Date:	Not reported
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact City,St,Zip:	0
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
2nd Contact:	Not reported
2nd Contact Address:	Not reported
2nd Contact City,St,Zip:	0
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported
2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Department Contact 1:	Not reported

RITA FALVEY (Continued) **S103159832**

Department Contact 2:	Not reported
Referral Source:	Not reported
Date Referred:	Not reported
Private Heating Fuel:	True
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other Release:	Not reported
No Release:	False
No LUST Site:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	True
Responsible Party:	False
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	0
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
LUST Owner Id:	Not reported
Investigator Id:	35
Follow Update:	Not reported
Lust Status:	Completed
Processing Status:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Effected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No

RITA FALVEY (Continued) **S103159832**

Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
Follow Up:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV COmments:	Not reported
Release Desc:	Not reported
Running Comments:	#2 HEATING OIL, , REMOVED 550 UST, SOIL REMOVAL
Work Performed:	Not reported

SPILL:

Year of Database:	5/21/1997 0:00:00	Case Number:	9702581
Who Took Spill:	915	Assigned To:	0

RITA FALVEY (Continued) **S103159832**

Report Date:	5/21/1997 0:00:00	Report Time:	12/30/1899 9:07:00
Date Release:	5/21/1997 0:00:00	Time Responded:	Not reported
Reported By:	NED GUERRERE	Phone:	203 3778900
Representing:	SABIA EXCAVATING, INC.		
Terminated:	YES	Recovd (Total):	0.00
Total (Water):	0.00	Facility Status:	closed
Date Responded:	Not reported	Time Responded:	Not reported
Who Assigned Spill:	Not reported		
Continuous Spill:	No		
Released Substance:	#2 FUEL OIL		
Qty:	0.00 (Gallons)		
Emergency Measure:	REMOVED 550 UST, SOIL REMOVAL		
Water Body:	NA		
Discharger:	RITA FALVEY		
Telephone:	000 0000000		
Discharger Addr:	Not reported		
Dicharger City,St,Zip:	Not reported		
Responsible Party:	YES		
RP Address 1:	35 QUAKER LA.		
RP City,St,Zip:	FAIRFIELD, CT 06430		
Property Owner Name:	Not reported		
Property Owner Phone:	Not reported		
Property Owner Address:	Not reported		
Property Owner 1 City,ST,Zip:	Not reported		
Historic:	No	Waterbody:	0
Qty Rec Water:	Not reported	Waterway:	Not reported
OPA:	Not reported	EPA:	Not reported
EPA Time:	Not reported	EPA Date:	Not reported
EPA Contact:	Not reported		
USCG Contact:	Not reported	USCG:	Not reported
USCG Time:	Not reported	USCG Date:	Not reported
Spill Fund:	Not reported	Authorized By:	Not reported
Date Authorized:	Not reported	Time Authorized:	Not reported
OCSRD Rep:	Not reported	Accepted By:	Not reported
Time Authorized:	Not reported	Date Accepted:	Not reported
Transportation:	Not reported	Make:	Not reported
Registration:	Not reported	Tractor No:	Not reported
Trailer Registrtn:	Not reported		
Vehicle Operator:	Not reported	License No:	Not reported
Vehicle Owner:	Not reported	Owner Phone:	Not reported
Special Contact:	Not reported	Contractor Retained:	Not reported
Time Requested:	Not reported	Date Requested:	Not reported
Date Arrived:	Not reported	Time Arrived:	Not reported
Time Stamp:	5/21/1997 10:03:32		
Sr Inspector:	Capuano, Mike	At Inspctor:	**NO RESPONSE
Sign 1:	Not reported	Sign 2:	Not reported
Sign 3:	Not reported	Sign 4:	Not reported
Sign 5:	Not reported	Sign 6:	Not reported
Sign 7:	Not reported	User Stamp:	Not reported
Action ID:	12		
Other Action:	Not reported		
Action ID:	17		
Other Action:	Not reported		
Action ID:	18		
Other Action:	Not reported		
Agency ID:	8		
Other Agency:	Not reported		

RITA FALVEY (Continued) **S103159832**

DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: 3
Other Cause: Not reported
Media ID: 6
Other Media: SUBSURFACE SOIL CONTAMINATION
Class ID: Not reported
Other Class: Not reported
Release ID: 8
Other Release: SUBSURFACE SOIL CONTAMINATION
Waterbody ID: 9
Other Wtrbody: NA

---

16 **FAIRCO AIR CONDITIONING** **LUST** **S102413524**
East **BLACK ROCK TPKE.** **N/A**
1/4-1/2 **FAIRFIELD, CT 06430**
2200 ft.

Relative:
Lower

Actual:
17 ft.

LUST:
LUST Case Id: 29535
Cost Recovery Spill Case #: Not reported
Site Case Id: Not reported
Old SITS Number: Not reported
UST Site Id: Not reported
LUST ID: 1426
Case Log Id: Not reported
Monthly Report Id: 0
UST Facility Id: Not reported
UST Owner Id: Not reported
UST Event Id: 1425
Contact Info: Not reported
Facility City Num: 51
Incident Date: 05/08/90
Entry Date: Not reported
Site Contact: Not reported
Site Contact Address: Not reported
Site Contact City,St,Zip: 0
Site Contact Add 2: Not reported
Site Contact City 2: Not reported
Site Contact Phone: Not reported
Site Contact Fax: Not reported
Site Contact Type: Not reported
2nd Contact: Not reported
2nd Contact Address: Not reported
2nd Contact City,St,Zip: 0
2nd Contact Address 2: Not reported
2nd Contact City 2: Not reported
2nd Contact Phone Number: Not reported
2nd Contact Fax Number: Not reported
2nd Contact Type: Not reported
Department Contact 1: Not reported
Department Contact 2: Not reported
Referral Source: Not reported
Date Referred: Not reported
Private Heating Fuel: False
Commercial Heating Fuel: False
Commercial HF < 2100 Gal.: False
Commercial HF > 2100 Gal.: False

FAIRCO AIR CONDITIONING (Continued) **S102413524**

Commercial HF - Size Unk:	False
Motor Fuel:	True
Diesel:	False
Gasoline:	True
Other Release:	Not reported
No Release:	False
No LUST Site:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	False
Responsible Party:	False
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	0
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
LUST Owner Id:	Not reported
Investigator Id:	28
Follow Update:	Not reported
Lust Status:	Completed
Processing Status:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Effected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False

FAIRCO AIR CONDITIONING (Continued) **S102413524**

Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
Follow Up:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV COmments:	Not reported
Release Desc:	Not reported
Running Comments:	Should be Registered Facility
Work Performed:	Not reported

---

17 **JERRY TOUGAS** **LUST** **S104311605**
SSW **61 QUAKER LA.** **CT Spills** **N/A**
1/4-1/2 **FAIRFIELD, CT 06430**
2243 ft.

Relative:
Lower

Actual:
37 ft.

LUST:

LUST Case Id:	37109
Cost Recovery Spill Case #:	Not reported
Site Case Id:	9906878
Old SITS Number:	Not reported
UST Site Id:	Not reported

JERRY TOUGAS (Continued) **S104311605**

LUST ID:	9083
Case Log Id:	Not reported
Monthly Report Id:	0
UST Facility Id:	Not reported
UST Owner Id:	Not reported
UST Event Id:	9264
Contact Info:	Not reported
Facility City Num:	51
Incident Date:	10/08/99
Entry Date:	Not reported
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact City,St,Zip:	0
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
2nd Contact:	Not reported
2nd Contact Address:	Not reported
2nd Contact City,St,Zip:	0
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported
2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Date Referred:	Not reported
Private Heating Fuel:	True
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other Release:	Not reported
No Release:	False
No LUST Site:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	True
Responsible Party:	False
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	0
Resp Party Phone:	Not reported

JERRY TOUGAS (Continued) **S104311605**

Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
LUST Owner Id:	Not reported
Investigator Id:	35
Follow Update:	Not reported
Lust Status:	Completed
Processing Status:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Effected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False

JERRY TOUGAS (Continued) **S104311605**

Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
Follow Up:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV COmments:	Not reported
Release Desc:	Not reported
Running Comments:	550, Heating Oil, PRIVATE, 550 TANK WITH HOLES / SOIL REMOVAL PENDING
Work Performed:	Not reported

SPILL:

Year of Database:	10/8/1999 0:00:00	Case Number:	9906878
Who Took Spill:	931	Assigned To:	0
Report Date:	10/8/1999 0:00:00	Report Time:	10/8/1999 16:25:15
Date Release:	10/7/1999 0:00:00	Time Responded:	12/30/1899 10:00:00
Reported By:	JOE PALMIERI	Phone:	203 3846020
Representing:	CT. TANK		
Terminated:	YES	Recovd (Total):	0.00
Total (Water):	0.00	Facility Status:	Closed
Date Responded:	Not reported	Time Responded:	Not reported

Who Assigned Spill:	Not reported
Continuous Spill:	No
Released Substance:	#2 FUEL OIL
Qty:	0.00 (Gallons)
Emergency Measure:	550 TANK WITH HOLES / SOIL REMOVAL PENDING
Water Body:	NA
Discharger:	JERRY TOUGAS
Telephone:	203 2592060
Discharger Addr:	Not reported
Dicharger City,St,Zip:	Not reported
Responsible Party:	YES
RP Address 1:	SAME
RP City,St,Zip:	CT
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Address:	Not reported
Property Owner 1 City,ST,Zip:	Not reported

Historic:	No	Waterbody:	0
Qty Rec Water:	Not reported	Waterway:	Not reported
OPA:	Not reported	EPA:	Not reported
EPA Time:	Not reported	EPA Date:	Not reported
EPA Contact:	Not reported		
USCG Contact:	Not reported	USCG:	Not reported

JERRY TOUGAS (Continued) **S104311605**

USCG Time:	Not reported	USCG Date:	Not reported
Spill Fund:	Not reported	Authorized By:	Not reported
Date Authorized:	Not reported	Time Authorized:	Not reported
OCSRD Rep:	Not reported	Accepted By:	Not reported
Time Authorized:	Not reported	Date Accepted:	Not reported
Transportation:	Not reported	Make:	Not reported
Registration:	Not reported	Tractor No:	Not reported
Trailer Registrtn:	Not reported		
Vehicle Operator:	Not reported	License No:	Not reported
Vehicle Owner:	Not reported	Owner Phone:	Not reported
Special Contact:	Not reported	Contractor Retained:	Not reported
Time Requested:	Not reported	Date Requested:	Not reported
Date Arrived:	Not reported	Time Arrived:	Not reported
Time Stamp:	10/13/1999 13:06:47		
Sr Inspector:	Coss, Brian	At Inspctor:	**NO RESPONSE
Sign 1:	Not reported	Sign 2:	Not reported
Sign 3:	Not reported	Sign 4:	Not reported
Sign 5:	Not reported	Sign 6:	Not reported
Sign 7:	Not reported	User Stamp:	Not reported
Action ID:	17		
Other Action:	Not reported		
Agency ID:	3		
Other Agency:	Not reported		
DEP Bureau:	Not reported		
DEP Agency:	Not reported		
Cause ID:	3		
Other Cause:	Not reported		
Media ID:	6		
Other Media:	SOIL ONLY		
Class ID:	6		
Other Class:	Not reported		
Release ID:	1		
Other Release:	Not reported		
Waterbody ID:	Not reported		
Other Wtrbody:	Not reported		

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18 **SONITROL** **LUST** **S105439461**
SE **1501 KINGS HIGHWAY EAST** **CT Spills** **N/A**
1/4-1/2 **FAIRFIELD, CT 06430**
2387 ft.

Relative:
Lower

Actual:
47 ft.

LUST:

LUST Case Id:	31332
Cost Recovery Spill Case #:	Not reported
Site Case Id:	9800727
Old SITS Number:	Not reported
UST Site Id:	Not reported
LUST ID:	3283
Case Log Id:	Not reported
Monthly Report Id:	0
UST Facility Id:	Not reported
UST Owner Id:	Not reported
UST Event Id:	3318
Contact Info:	Not reported
Facility City Num:	51
Incident Date:	02/09/98
Entry Date:	Not reported
Site Contact:	Mike Sabia

SONITROL (Continued) **S105439461**

Site Contact Address:	Sabia Landscaping
Site Contact City,St,Zip:	0, XX
Site Contact Add 2:	Not reported
Site Contact City 2:	ZipCode Unknown
Site Contact Phone:	(203) 259-7906
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
2nd Contact:	Not reported
2nd Contact Address:	Not reported
2nd Contact City,St,Zip:	0
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported
2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Date Referred:	Not reported
Private Heating Fuel:	False
Commercial Heating Fuel:	True
Commercial HF < 2100 Gal.:	True
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other Release:	Not reported
No Release:	False
No LUST Site:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	True
Responsible Party:	False
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	0
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
LUST Owner Id:	Not reported
Investigator Id:	35
Follow Update:	Not reported
Lust Status:	Completed
Processing Status:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported

SONITROL (Continued) **S105439461**

Effected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported

SONITROL (Continued) **S105439461**

Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
Follow Up:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV COmments:	Not reported
Release Desc:	Not reported
Running Comments:	Not reported
Work Performed:	Not reported

SPILL:

Year of Database:	2/9/1998 0:00:00	Case Number:	9800727
Who Took Spill:	914	Assigned To:	0
Report Date:	2/9/1998 0:00:00	Report Time:	2/9/1998 13:47:09
Date Release:	2/9/1998 0:00:00	Time Responded:	Not reported
Reported By:	MIKE SABIA	Phone:	203 2597906
Representing:	SABIA LANDSCAPING		
Terminated:	YES	Recovd (Total):	0.00
Total (Water):	0.00	Facility Status:	Closed
Date Responded:	Not reported	Time Responded:	Not reported

Who Assigned Spill:	Not reported
Continuous Spill:	No
Released Substance:	#2 FUEL OIL
Qty:	0.00 (Gallons)
Emergency Measure:	1000 UST TANK & SOIL REMOVAL
Water Body:	Not reported
Discharger:	SONITROL
Telephone:	203 3358111
Discharger Addr:	Not reported
Dicharger City,St,Zip:	Not reported
Responsible Party:	YES
RP Address 1:	1501 KINGS HIGHWAY EAST
RP City,St,Zip:	CT
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Address:	Not reported
Property Owner 1 City,ST,Zip:	Not reported

Historic:	No	Waterbody:	0
Qty Rec Water:	Not reported	Waterway:	Not reported
OPA:	Not reported	EPA:	Not reported
EPA Time:	Not reported	EPA Date:	Not reported
EPA Contact:	Not reported		
USCG Contact:	Not reported	USCG:	Not reported
USCG Time:	Not reported	USCG Date:	Not reported
Spill Fund:	Not reported	Authorized By:	Not reported
Date Authorized:	Not reported	Time Authorized:	Not reported
OCSRD Rep:	Not reported	Accepted By:	Not reported
Time Authorized:	Not reported	Date Accepted:	Not reported
Transportation:	Not reported	Make:	Not reported
Registration:	Not reported	Tractor No:	Not reported
Trailer Registrtn:	Not reported		
Vehicle Operator:	Not reported	License No:	Not reported
Vehicle Owner:	Not reported	Owner Phone:	Not reported
Special Contact:	Not reported	Contractor Retained:	Not reported

SONITROL (Continued) **S105439461**

Time Requested:	Not reported	Date Requested:	Not reported
Date Arrived:	Not reported	Time Arrived:	Not reported
Time Stamp:	2/9/1998 13:53:17		
Sr Inspector:	Porter, John	At Inspctor:	**NO RESPONSE
Sign 1:	Not reported	Sign 2:	Not reported
Sign 3:	Not reported	Sign 4:	Not reported
Sign 5:	Not reported	Sign 6:	Not reported
Sign 7:	Not reported	User Stamp:	Not reported
Action ID:	17		
Other Action:	Not reported		
Agency ID:	Not reported		
Other Agency:	Not reported		
DEP Bureau:	Not reported		
DEP Agency:	Not reported		
Cause ID:	3		
Other Cause:	Not reported		
Media ID:	6		
Other Media:	SOIL		
Class ID:	Not reported		
Other Class:	Not reported		
Release ID:	1		
Other Release:	Not reported		
Waterbody ID:	Not reported		
Other Wtrbody:	Not reported		

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19 **WILLIAM MASON** **LUST** **S104311134**
ESE **684 COMMERCE DR** **CT Spills** **N/A**
1/4-1/2 **FAIRFIELD, CT 06430**
2428 ft.

Relative:
Lower

Actual:
34 ft.

LUST:

LUST Case Id:	36654
Cost Recovery Spill Case #:	Not reported
Site Case Id:	9904961
Old SITS Number:	Not reported
UST Site Id:	Not reported
LUST ID:	8628
Case Log Id:	Not reported
Monthly Report Id:	0
UST Facility Id:	Not reported
UST Owner Id:	Not reported
UST Event Id:	8809
Contact Info:	Not reported
Facility City Num:	51
Incident Date:	07/28/99
Entry Date:	Not reported
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact City,St,Zip:	0
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
2nd Contact:	Not reported
2nd Contact Address:	Not reported
2nd Contact City,St,Zip:	0
2nd Contact Address 2:	Not reported

WILLIAM MASON (Continued) **S104311134**

2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported
2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Date Referred:	Not reported
Private Heating Fuel:	True
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other Release:	Not reported
No Release:	False
No LUST Site:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	True
Responsible Party:	False
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	0
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
LUST Owner Id:	Not reported
Investigator Id:	35
Follow Update:	Not reported
Lust Status:	Completed
Processing Status:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Effected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported

WILLIAM MASON (Continued) **S104311134**

Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
Follow Up:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV COmments:	Not reported
Release Desc:	Not reported
Running Comments:	2000, Heating Oil, PRIVATE, 2000 LUST : TANK & SOIL REMOVAL

WILLIAM MASON (Continued) **S104311134**

Work Performed: Not reported

SPILL:

Year of Database:	7/28/1999 0:00:00	Case Number:	9904961
Who Took Spill:	914	Assigned To:	0
Report Date:	7/28/1999 0:00:00	Report Time:	7/28/1999 10:57:58
Date Release:	7/28/1999 0:00:00	Time Responded:	Not reported
Reported By:	MIKE MAHAN	Phone:	860 5672316
Representing:	SMC		
Terminated:	YES	Recovd (Total):	0.00
Total (Water):	0.00	Facility Status:	Closed
Date Responded:	Not reported	Time Responded:	Not reported
Who Assigned Spill:	Not reported		
Continuous Spill:	No		
Released Substance:	#2 FUEL OIL		
Qty:	0.00 (Gallons)		
Emergency Measure:	2000 LUST : TANK & SOIL REMOVAL		
Water Body:	NONE		
Discharger:	WILLIAM MASON		
Telephone:	203 3336517		
Discharger Addr:	Not reported		
Dicharger City,St,Zip:	Not reported		
Responsible Party:	YES		
RP Address 1:	SAA		
RP City,St,Zip:	CT		
Property Owner Name:	Not reported		
Property Owner Phone:	Not reported		
Property Owner Address:	Not reported		
Property Owner 1 City,ST,Zip:	Not reported		
Historic:	No	Waterbody:	0
Qty Rec Water:	Not reported	Waterway:	Not reported
OPA:	Not reported	EPA:	Not reported
EPA Time:	Not reported	EPA Date:	Not reported
EPA Contact:	Not reported		
USCG Contact:	Not reported	USCG:	Not reported
USCG Time:	Not reported	USCG Date:	Not reported
Spill Fund:	Not reported	Authorized By:	Not reported
Date Authorized:	Not reported	Time Authorized:	Not reported
OCSRD Rep:	Not reported	Accepted By:	Not reported
Time Authorized:	Not reported	Date Accepted:	Not reported
Transportation:	Not reported	Make:	Not reported
Registration:	Not reported	Tractor No:	Not reported
Trailer Registrtn:	Not reported		
Vehicle Operator:	Not reported	License No:	Not reported
Vehicle Owner:	Not reported	Owner Phone:	Not reported
Special Contact:	Not reported	Contractor Retained:	Not reported
Time Requested:	Not reported	Date Requested:	Not reported
Date Arrived:	Not reported	Time Arrived:	Not reported
Time Stamp:	7/28/1999 11:00:19		
Sr Inspector:	Porter, John	At Inspctor:	**NO RESPONSE
Sign 1:	Not reported	Sign 2:	Not reported
Sign 3:	Not reported	Sign 4:	Not reported
Sign 5:	Not reported	Sign 6:	Not reported
Sign 7:	Not reported	User Stamp:	Not reported
Action ID:	17		
Other Action:	Not reported		
Action ID:	18		

WILLIAM MASON (Continued) **S104311134**

Other Action:	Not reported
Agency ID:	3
Other Agency:	Not reported
DEP Bureau:	Not reported
DEP Agency:	Not reported
Cause ID:	3
Other Cause:	Not reported
Media ID:	6
Other Media:	SOIL
Class ID:	6
Other Class:	Not reported
Release ID:	1
Other Release:	Not reported
Waterbody ID:	Not reported
Other Wtrbody:	Not reported

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20 **ALBERT SZABO** **LUST** **S103162970**
North **771 HIGH STREET** **CT Spills** **N/A**
1/4-1/2 **FAIRFIELD, CT 06430**
2434 ft.

Relative:
Higher

Actual:
154 ft.

LUST:

LUST Case Id:	33554
Cost Recovery Spill Case #:	Not reported
Site Case Id:	9706126
Old SITS Number:	Not reported
UST Site Id:	Not reported
LUST ID:	5429
Case Log Id:	Not reported
Monthly Report Id:	0
UST Facility Id:	Not reported
UST Owner Id:	Not reported
UST Event Id:	5540
Contact Info:	Not reported
Facility City Num:	51
Incident Date:	10/23/97
Entry Date:	Not reported
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact City,St,Zip:	0
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
2nd Contact:	Not reported
2nd Contact Address:	Not reported
2nd Contact City,St,Zip:	0
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported
2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Date Referred:	Not reported
Private Heating Fuel:	True

ALBERT SZABO (Continued) **S103162970**

Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other Release:	Not reported
No Release:	False
No LUST Site:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	True
Responsible Party:	False
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	0
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
LUST Owner Id:	Not reported
Investigator Id:	35
Follow Update:	Not reported
Lust Status:	Completed
Processing Status:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Effected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False

ALBERT SZABO (Continued) **S103162970**

Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
Follow Up:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV COmments:	Not reported
Release Desc:	Not reported
Running Comments:	#2 HEATING OIL, , 550 LUST - SOIL REMOVAL
Work Performed:	Not reported

SPILL:

Year of Database:	10/23/1997 0:00:00	Case Number:	9706126
Who Took Spill:	914	Assigned To:	0
Report Date:	10/23/1997 0:00:00	Report Time:	12/30/1899 11:55:00
Date Release:	10/23/1997 0:00:00	Time Responded:	Not reported
Reported By:	LORI BAKER	Phone:	203 3778900
Representing:	TEC INC		

ALBERT SZABO (Continued) **S103162970**

Terminated:	YES	Recovd (Total):	0.00
Total (Water):	0.00	Facility Status:	Closed
Date Responded:	Not reported	Time Responded:	Not reported
Who Assigned Spill:	Not reported		
Continuous Spill:	No		
Released Substance:	#2 FUEL OIL		
Qty:	0.00 (Gallons)		
Emergency Measure:	550 LUST - SOIL REMOVAL		
Water Body:	Not reported		
Discharger:	ALBERT SZABO		
Telephone:	203 3675740		
Discharger Addr:	Not reported		
Dicharger City,St,Zip:	Not reported		
Responsible Party:	YES		
RP Address 1:	771 HIGH ST		
RP City,St,Zip:	FAIRFIELD, CT 06430		
Property Owner Name:	Not reported		
Property Owner Phone:	Not reported		
Property Owner Address:	Not reported		
Property Owner 1 City,ST,Zip:	Not reported		
Historic:	No	Waterbody:	0
Qty Rec Water:	Not reported	Waterway:	Not reported
OPA:	Not reported	EPA:	Not reported
EPA Time:	Not reported	EPA Date:	Not reported
EPA Contact:	Not reported		
USCG Contact:	Not reported	USCG:	Not reported
USCG Time:	Not reported	USCG Date:	Not reported
Spill Fund:	Not reported	Authorized By:	Not reported
Date Authorized:	Not reported	Time Authorized:	Not reported
OCSRD Rep:	Not reported	Accepted By:	Not reported
Time Authorized:	Not reported	Date Accepted:	Not reported
Transportation:	Not reported	Make:	Not reported
Registration:	Not reported	Tractor No:	Not reported
Trailer Registrtn:	Not reported		
Vehicle Operator:	Not reported	License No:	Not reported
Vehicle Owner:	Not reported	Owner Phone:	Not reported
Special Contact:	Not reported	Contractor Retained:	Not reported
Time Requested:	Not reported	Date Requested:	Not reported
Date Arrived:	Not reported	Time Arrived:	Not reported
Time Stamp:	10/23/1997 11:54:39		
Sr Inspector:	Porter, John	At Inspctor:	**NO RESPONSE
Sign 1:	Not reported	Sign 2:	Not reported
Sign 3:	Not reported	Sign 4:	Not reported
Sign 5:	Not reported	Sign 6:	Not reported
Sign 7:	Not reported	User Stamp:	Not reported
Action ID:	17		
Other Action:	Not reported		
Action ID:	18		
Other Action:	Not reported		
Agency ID:	Not reported		
Other Agency:	Not reported		
DEP Bureau:	Not reported		
DEP Agency:	Not reported		
Cause ID:	3		
Other Cause:	Not reported		
Media ID:	6		
Other Media:	SOIL		

ALBERT SZABO (Continued) **S103162970**

Class ID: Not reported
Other Class: Not reported
Release ID: 1
Other Release: Not reported
Waterbody ID: Not reported
Other Wtrbody: Not reported

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21 **GETTY SERVICE STATION** **LUST** **S105457690**
South **721 KING HIGHWAY** **N/A**
1/4-1/2 **FAIRFIELD, CT 06430**
2581 ft.

Relative:
Lower

Actual:
18 ft.

LUST:

LUST Case Id:	31277
Cost Recovery Spill Case #:	Not reported
Site Case Id:	200100925
Old SITS Number:	Not reported
UST Site Id:	1024
LUST ID:	3228
Case Log Id:	Not reported
Monthly Report Id:	0
UST Facility Id:	5679
UST Owner Id:	2643
UST Event Id:	3257
Contact Info:	Not reported
Facility City Num:	51
Incident Date:	04/04/91
Entry Date:	Not reported
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact City,St,Zip:	0
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
2nd Contact:	Not reported
2nd Contact Address:	Not reported
2nd Contact City,St,Zip:	0
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported
2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Department Contact 1:	paul clark
Department Contact 2:	Not reported
Referral Source:	Not reported
Date Referred:	Not reported
Private Heating Fuel:	False
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
Motor Fuel:	True
Diesel:	False
Gasoline:	True
Other Release:	Not reported
No Release:	False

GETTY SERVICE STATION (Continued) **S105457690**

No LUST Site:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	False
Responsible Party:	False
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	0
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
LUST Owner Id:	Not reported
Investigator Id:	Not reported
Follow Update:	Not reported
Lust Status:	Completed
Processing Status:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Effected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False

GETTY SERVICE STATION (Continued) **S105457690**

Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Paul Clark/pclark
Date Stamp:	01/30/06
Correspondence:	Not reported
Environmental Impact:	Not reported
Follow Up:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV COmments:	Not reported
Release Desc:	Not reported
Running Comments:	UST Cleanup Account ID: 222 One piece of correspondence from OCSRD files received on 4/8/91 from Tyree Organization Ltd. Of Brewster NY, states that UST/USTs were removed, SVE system and GWMWs were installed. Quarterly groundwater and SVE system reports are available in OCSRD correspondence files covering 1991 through end of Dec. 1995. In the final quarterly report, Tyree Org. Ltd. of Brewster NY, has requested the closure of the site.
Work Performed:	Not reported

22
SSE
1/2-1
2867 ft.

Relative:
Lower

Actual:
31 ft.

HANDY & HARMON
1770 KINGS HIGHWAY
FAIRFIELD, CT 06430

RCRA-SQG **1000193605**
FINDS **CTD018656819**
RCRA-TSDF
CORRACTS
CERC-NFRAP
CT MANIFEST
NY MANIFEST
MANIFEST

HANDY & HARMON (Continued) **1000193605**

CERCLIS-NFRAP Classification Data:
Federal Facility: Not a Federal Facility
Non NPL Code: DR
NPL Status: Not on the NPL
CERCLIS-NFRAP Assessment History:
Assessment: DISCOVERY Completed: 07/26/1991
Assessment: PRELIMINARY ASSESSMENT Completed: 09/23/1992
Assessment: ARCHIVE SITE Completed: 01/25/1996

CORRACTS Data:

EPA Id: CTD018656819
Region: 01
Area Name: ENTIRE FACILITY
Actual Date: 02/16/1998
Corrective Action: CA750NO - Migration of Contaminated Groundwater under Control, Unacceptable migration of contaminated groundwater is observed or expected
2002 NAICS Title: Gasoline Engine and Engine Parts Manufacturing

EPA Id: CTD018656819
Region: 01
Area Name: ENTIRE FACILITY
Actual Date: 02/16/1998
Corrective Action: CA725NO - Current Human Exposures Under Control, Current human exposures are NOT under control
2002 NAICS Title: Gasoline Engine and Engine Parts Manufacturing

EPA Id: CTD018656819
Region: 01
Area Name: ENTIRE FACILITY
Actual Date: 07/29/1999
Corrective Action: CA750IN - Migration of Contaminated Groundwater under Control , More information is needed to make a determination
2002 NAICS Title: Gasoline Engine and Engine Parts Manufacturing

EPA Id: CTD018656819
Region: 01
Area Name: ENTIRE FACILITY
Actual Date: 07/29/1999
Corrective Action: CA725IN - Current Human Exposures Under Control , More information is needed to make a determination
2002 NAICS Title: Gasoline Engine and Engine Parts Manufacturing

EPA Id: CTD018656819
Region: 01
Area Name: ENTIRE FACILITY
Actual Date: 09/29/2005
Corrective Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified
2002 NAICS Title: Gasoline Engine and Engine Parts Manufacturing

Click this hyperlink while viewing on your computer to access
1 additional CORRACTS record(s) in the EDR Site Report.

HANDY & HARMON (Continued) **1000193605**

RCRAInfo Corrective Action Summary:

Event: Current Human Exposures under Control, Yes, Current Human Exposures Under Control has been verified. Based on a review of information contained in the EI determination, current human exposures are expected to be under control at the facility under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.
Event Date: 09/29/2005

Event: Current Human Exposures under Control, More information is needed to make a determination.
Event Date: 07/29/1999

Event: Igration of Contaminated Groundwater under Control, More information is needed to make a determination.
Event Date: 07/29/1999

Event: Current Human Exposures under Control, Current human exposures are NOT under control.
Event Date: 02/16/1998

Event: Igration of Contaminated Groundwater under Control, Unacceptable migration of contaminated groundwater is observed or expected.
Event Date: 02/16/1998

Event: CA Prioritization, Facility or area was assigned a high corrective action priority.
Event Date: 11/19/1992

RCRAInfo:

Owner: HANDY & HARMAN
(203) 259-8321
EPA ID: CTD018656819

Contact: RICHARD DEIBLE
(203) 259-8321

Classification: TSDF
TSDF Activities: Not reported

BIENNIAL REPORTS:

Last Biennial Reporting Year: 2003

Waste	Quantity (Lbs)	Waste	Quantity (Lbs)
D001	9276.15	D002	4325.27
D003	125.10	D005	600.00
D006	13290.40	D008	8792.91
D009	15.00	D010	1.00
D011	10280.40	F001	1362.39
F002	35654.71	F003	3211.01
F005	3211.01	U121	186.41

Violation Status: Violations exist

Regulation Violated: 22a-449(c)-108(a)(1)
Area of Violation: GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined: 05/26/1995
Actual Date Achieved Compliance: 09/29/1999

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

HANDY & HARMON (Continued) **1000193605**

Regulation Violated: Not reported
Area of Violation: HAZARDOUS WASTE DETERMINATIONS
Date Violation Determined: 05/26/1995
Actual Date Achieved Compliance: 09/29/1999

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 262.11
Area of Violation: HAZARDOUS WASTE DETERMINATIONS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: 09/29/1999

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 262.34(a)(2)
Area of Violation: GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 102(a)(2)(C)
Area of Violation: GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 264.175
Area of Violation: CONTAINER MGT=SAT'LITE ACCUMS/CONTAINER
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: 09/28/1999

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 262.34(c)(1)(i) 265.173(a)
Area of Violation: CONTAINER MGT=SAT'LITE ACCUMS/CONTAINER
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 102(a)(2)(D)
Area of Violation: GENERATOR-SPECIAL CONDITIONS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: 09/28/1999

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 270

HANDY & HARMON (Continued) **1000193605**

Area of Violation: TSD-PART B APPLICATION
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 265.35
Area of Violation: PREPARDNESS AND PREVENTION
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: 09/29/1999

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 265.173(a)
Area of Violation: CONTAINER MGT=SAT'LITE ACCUMS/CONTAINER
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: 09/29/1999

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 262.34(a)(2)
Area of Violation: GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: 09/29/1999

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 102(a)(2)(C) 101(c)(2)
Area of Violation: GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: 09/29/1999

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 102(a)(2)(B)
Area of Violation: CONTAINER MGT=SAT'LITE ACCUMS/CONTAINER
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: 09/29/1999

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 262.20 262.23
Area of Violation: GENERATOR-MANIFEST REQUIREMENTS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: 09/29/1999

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 262.11
Area of Violation: HAZARDOUS WASTE DETERMINATIONS

HANDY & HARMON (Continued) **1000193605**

Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: 09/29/1999

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 266.32(a)
Area of Violation: GENERATOR RECYCLE/RECLAIM
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: 09/29/1999

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 265
Area of Violation: TSD-PART B APPLICATION
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 268.1(b) 268.9(a)
Area of Violation: GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 268.7(a)(6)
Area of Violation: GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 268.7(a)(1)(&(2)
Area of Violation: GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 262.20 262.23
Area of Violation: GENERATOR-MANIFEST REQUIREMENTS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 262.11
Area of Violation: HAZARDOUS WASTE DETERMINATIONS
Date Violation Determined: 09/27/1993

HANDY & HARMON (Continued) **1000193605**

Actual Date Achieved Compliance: 09/29/1999

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 261.2(f)
Area of Violation: GENERATOR RECYCLE/RECLAIM
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 268.7(a)(7)
Area of Violation: GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 268.7(a)(6)
Area of Violation: GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 261.2(f)
Area of Violation: GENERATOR RECYCLE/RECLAIM
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 265.13,15,16,73,75,110,120,140
Area of Violation: TSD-OTHER REQUIREMENTS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 265.35 265.173(a) 264.175
Area of Violation: TSD-CONTAINERS REQUIREMENTS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 266.101(c) 270
Area of Violation: TSD RECYCLE/RECLAIM
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

HANDY & HARMON (Continued) **1000193605**

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 265.15 265.16 262.41
Area of Violation: GENERATOR-OTHER REQUIREMENTS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: 09/29/1999

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 268.7(a) 268.33(g) 268.34(i)
Area of Violation: GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: 09/29/1999

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 268.1(b) 268.9(a)
Area of Violation: GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 268.7(a)(6)
Area of Violation: GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: 09/29/1999

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 268.7(a)(1)&(2)
Area of Violation: GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: 09/29/1999

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 262.34(a)(2)
Area of Violation: GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 102(a)(2)(C)
Area of Violation: GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER

HANDY & HARMON (Continued) **1000193605**

Enforcement Action Date:	07/03/1996
Penalty Type:	Final SEP Cost
Regulation Violated:	264.175
Area of Violation:	CONTAINER MGT=SAT'LITE ACCUMS/CONTAINER
Date Violation Determined:	09/27/1993
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date:	07/03/1996
Penalty Type:	Final SEP Cost
Regulation Violated:	262.20 262.23
Area of Violation:	GENERATOR-MANIFEST REQUIREMENTS
Date Violation Determined:	09/27/1993
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date:	07/03/1996
Penalty Type:	Final SEP Cost
Regulation Violated:	262.11
Area of Violation:	HAZARDOUS WASTE DETERMINATIONS
Date Violation Determined:	09/27/1993
Actual Date Achieved Compliance:	09/29/1999
Enforcement Action:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date:	07/03/1996
Penalty Type:	Final SEP Cost
Regulation Violated:	261.6(b)
Area of Violation:	GENERATOR-OTHER REQUIREMENTS
Date Violation Determined:	09/27/1993
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date:	07/03/1996
Penalty Type:	Final SEP Cost
Regulation Violated:	261.2(f)
Area of Violation:	GENERATOR RECYCLE/RECLAIM
Date Violation Determined:	09/27/1993
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date:	07/03/1996
Penalty Type:	Final SEP Cost
Regulation Violated:	101(c)(2)
Area of Violation:	GENERATOR RECYCLE/RECLAIM
Date Violation Determined:	09/27/1993
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date:	07/03/1996
Penalty Type:	Final SEP Cost
Regulation Violated:	268.7(a) 268.33(g) 268.34(i)
Area of Violation:	GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined:	09/27/1993
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date:	07/03/1996

HANDY & HARMON (Continued) **1000193605**

Penalty Type:	Final SEP Cost
Regulation Violated:	265.173(a)
Area of Violation:	TSD-CONTAINERS REQUIREMENTS
Date Violation Determined:	09/27/1993
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date:	07/03/1996
Penalty Type:	Final SEP Cost
Regulation Violated:	264.175
Area of Violation:	TSD-CONTAINERS REQUIREMENTS
Date Violation Determined:	09/27/1993
Actual Date Achieved Compliance:	09/28/1999
Enforcement Action:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date:	07/03/1996
Penalty Type:	Final SEP Cost
Regulation Violated:	270
Area of Violation:	TSD-PART B APPLICATION
Date Violation Determined:	09/27/1993
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date:	07/03/1996
Penalty Type:	Final SEP Cost
Regulation Violated:	266.70(d) 261.6(c)
Area of Violation:	TSD RECYCLE/RECLAIM
Date Violation Determined:	09/27/1993
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date:	07/03/1996
Penalty Type:	Final SEP Cost
Regulation Violated:	268.7(a) 268.33(g) 268.34(i)
Area of Violation:	GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined:	09/27/1993
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date:	07/03/1996
Penalty Type:	Final SEP Cost
Regulation Violated:	268.1(b) 268.9(a)
Area of Violation:	GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined:	09/27/1993
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date:	07/03/1996
Penalty Type:	Final SEP Cost
Regulation Violated:	268.7(a)(6)
Area of Violation:	GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined:	09/27/1993
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date:	07/03/1996
Penalty Type:	Final SEP Cost

HANDY & HARMON (Continued) **1000193605**

Regulation Violated: 268.7(a)(1)&(2)
Area of Violation: GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 102(a)(2)(H)
Area of Violation: GENERATOR-RECORDKEEPING REQUIREMENTS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: Not reported
Area of Violation: COMPLIANCE SCHEDULE VIOLATION
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 22a-454
Area of Violation: TSD RECYCLE/RECLAIM
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 262.11
Area of Violation: HAZARDOUS WASTE DETERMINATIONS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: 09/29/1999

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 3002(a)(5)&(b)(1)
Area of Violation: GENERATOR-OTHER REQUIREMENTS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 101(c)(2)
Area of Violation: TSD RECYCLE/RECLAIM
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 265.147(a) 265.147(a)(1)(i)

HANDY & HARMON (Continued) **1000193605**

Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 265.143
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 265.142
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 265.112
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 105(a)(2)(D)
Area of Violation: TSD-OTHER REQUIREMENTS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 265.73(b)
Area of Violation: OPERATING RECORDS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 265.13(b)(&(c)
Area of Violation: WASTE ANALYSIS PLAN
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 265.13(a)
Area of Violation: WASTE ANALYSIS PLAN

HANDY & HARMON (Continued) **1000193605**

Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 265.16(a)(1)&(b)
Area of Violation: PERSONNEL TRAINING RECORDS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 265.15(b)&(d)
Area of Violation: TSD INSPECTION SCHEDULE & LOG
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 265.15(a)
Area of Violation: TSD INSPECTION SCHEDULE & LOG
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 265.31
Area of Violation: TSD-PREPAREDNESS/PREVENTION REQUIREMENTS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 265.16
Area of Violation: PERSONNEL TRAINING RECORDS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 102(a)(2)(D)
Area of Violation: GENERATOR-SPECIAL CONDITIONS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: 09/29/1999

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 265.176
Area of Violation: CONTAINER MGT=SAT'LITE ACCUMS/CONTAINER
Date Violation Determined: 09/27/1993

HANDY & HARMON (Continued) **1000193605**

Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 102(b)(2)
Area of Violation: GENERATOR INSPECTION SCHEDULE & LOG
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 265.35
Area of Violation: PREPARDNESS AND PREVENTION
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 265.31
Area of Violation: PREPARDNESS AND PREVENTION
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 102(a)(2)(E)
Area of Violation: CONTAINER MGT=SAT'LITE ACCUMS/CONTAINER
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 265.173(a)
Area of Violation: CONTAINER MGT=SAT'LITE ACCUMS/CONTAINER
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 102
Area of Violation: GENERATOR-OTHER REQUIREMENTS
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: 262.34(a)(1)(i) 265.177(c)
Area of Violation: CONTAINER MGT=SAT'LITE ACCUMS/CONTAINER
Date Violation Determined: 09/27/1993
Actual Date Achieved Compliance: 09/28/1999

HANDY & HARMON (Continued) **1000193605**

Enforcement Action:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date:	07/03/1996
Penalty Type:	Final SEP Cost
Regulation Violated:	Not reported
Area of Violation:	HAZARDOUS WASTE DETERMINATIONS
Date Violation Determined:	03/16/1992
Actual Date Achieved Compliance:	09/21/1994
Regulation Violated:	Not reported
Area of Violation:	GENERATOR-MANIFEST REQUIREMENTS
Date Violation Determined:	03/16/1992
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date:	07/03/1996
Penalty Type:	Final SEP Cost
Regulation Violated:	Not reported
Area of Violation:	TSD INSPECTION SCHEDULE & LOG
Date Violation Determined:	03/16/1992
Actual Date Achieved Compliance:	09/27/1993
Regulation Violated:	Not reported
Area of Violation:	TSD-CONTAINERS REQUIREMENTS
Date Violation Determined:	03/16/1992
Actual Date Achieved Compliance:	09/29/1999
Enforcement Action:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date:	07/03/1996
Penalty Type:	Final SEP Cost
Regulation Violated:	Not reported
Area of Violation:	TSD-CONTAINERS REQUIREMENTS
Date Violation Determined:	03/16/1992
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date:	07/03/1996
Penalty Type:	Final SEP Cost
Regulation Violated:	Not reported
Area of Violation:	TSD-CONTINGENCY PLAN REQUREMENTS
Date Violation Determined:	03/16/1992
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date:	07/03/1996
Penalty Type:	Final SEP Cost
Regulation Violated:	Not reported
Area of Violation:	FORMAL ENFORCEMENT AGREEMENT
Date Violation Determined:	11/14/1990
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date:	07/03/1996
Penalty Type:	Final SEP Cost
Regulation Violated:	Not reported
Area of Violation:	FORMAL ENFORCEMENT AGREEMENT
Date Violation Determined:	11/14/1990
Actual Date Achieved Compliance:	Not reported

HANDY & HARMON (Continued) **1000193605**

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 11/14/1990
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 11/14/1990
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: Not reported
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 11/14/1990
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 11/14/1990
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: Not reported
Area of Violation: TSD-LAND BAN REQUIREMENTS
Date Violation Determined: 11/14/1990
Actual Date Achieved Compliance: 10/28/1991

Regulation Violated: Not reported
Area of Violation: TSD-CORRECTIVE ACTION COMPLIANCE SCHEDULE
Date Violation Determined: 11/14/1990
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: Not reported
Area of Violation: TSD-CORRECTIVE ACTION COMPLIANCE SCHEDULE
Date Violation Determined: 11/14/1990
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: Not reported

HANDY & HARMON (Continued) **1000193605**

Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 11/14/1990
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: Not reported
Area of Violation: GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined: 11/14/1990
Actual Date Achieved Compliance: 10/28/1991

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 09/29/1989
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 09/29/1989
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 09/29/1989
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 09/29/1989
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 09/29/1989
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Regulation Violated: Not reported
Area of Violation: TSD-LAND BAN REQUIREMENTS
Date Violation Determined: 09/29/1989
Actual Date Achieved Compliance: 10/28/1991

Regulation Violated: Not reported

HANDY & HARMON (Continued) **1000193605**

Area of Violation: GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined: 09/29/1989
Actual Date Achieved Compliance: 10/28/1991

Regulation Violated: Not reported
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 04/22/1987
Actual Date Achieved Compliance: Not reported

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 11/18/1987
Penalty Type: Final Monetary Penalty

Enforcement Action: STIPULATED JUDICIAL ORDER, WITH PENALTY
Enforcement Action Date: 06/13/1988
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 10/08/1987
Penalty Type: Final Monetary Penalty

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 04/22/1987
Actual Date Achieved Compliance: Not reported

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 11/18/1987
Penalty Type: Final Monetary Penalty

Enforcement Action: STIPULATED JUDICIAL ORDER, WITH PENALTY
Enforcement Action Date: 06/13/1988
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 10/08/1987
Penalty Type: Final Monetary Penalty

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 04/22/1987
Actual Date Achieved Compliance: Not reported

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 11/18/1987
Penalty Type: Final Monetary Penalty

Enforcement Action: STIPULATED JUDICIAL ORDER, WITH PENALTY
Enforcement Action Date: 06/13/1988
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 10/08/1987

HANDY & HARMON (Continued) **1000193605**

Penalty Type: Final Monetary Penalty

Regulation Violated: Not reported
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 04/22/1987
Actual Date Achieved Compliance: Not reported

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 11/18/1987
Penalty Type: Final Monetary Penalty

Enforcement Action: STIPULATED JUDICIAL ORDER, WITH PENALTY
Enforcement Action Date: 06/13/1988
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 10/08/1987
Penalty Type: Final Monetary Penalty

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 04/22/1987
Actual Date Achieved Compliance: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/03/1996
Penalty Type: Final SEP Cost

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 10/08/1987
Penalty Type: Final SEP Cost

Penalty Summary:

Penalty Description	Penalty Date	Penalty Amount	Lead Agency
Final SEP Cost	7/3/1996	250000	STATE
Final SEP Credit	7/3/1996	250000	STATE

There are 109 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Compliance Evaluation Inspection	TSD-CONTAINERS REQUIREMENTS	19990929
	TSD-CONTAINERS REQUIREMENTS	
	GENERATOR-LAND BAN REQUIREMENTS	19990929
	HAZARDOUS WASTE DETERMINATIONS	19990929
	CONTAINER MGT=SAT'LITE ACCUMS/CONTAINER	19990928
	GENERATOR-PRE-TRANSPORT REQUIREMENTS	
	GENERATOR-PRE-TRANSPORT REQUIREMENTS	
	CONTAINER MGT=SAT'LITE ACCUMS/CONTAINER	
	CONTAINER MGT=SAT'LITE ACCUMS/CONTAINER	19990928
	GENERATOR-SPECIAL CONDITIONS	19990928
	GENERATOR-OTHER REQUIREMENTS	
	TSD-PART B APPLICATION	
	GENERATOR RECYCLE/RECLAIM	19990929
	HAZARDOUS WASTE DETERMINATIONS	19990929
	GENERATOR-MANIFEST REQUIREMENTS	19990929
	CONTAINER MGT=SAT'LITE ACCUMS/CONTAINER	19990929
	GENERATOR-PRE-TRANSPORT REQUIREMENTS	19990929

	HANDY & HARMON (Continued)			**1000193605**
		GENERATOR-PRE-TRANSPORT REQUIREMENTS		19990929
		CONTAINER MGT=SAT'LITE ACCUMS/CONTAINER		19990929
		PREPARDNESS AND PREVENTION		19990929
		GENERATOR-LAND BAN REQUIREMENTS		19990929
		GENERATOR-LAND BAN REQUIREMENTS		19990929
		GENERATOR-LAND BAN REQUIREMENTS		19990929
		GENERATOR-OTHER REQUIREMENTS		19990929
		TSD RECYCLE/RECLAIM		
		TSD-CONTAINERS REQUIREMENTS		
		HAZARDOUS WASTE DETERMINATIONS		19990929
		GENERATOR-PRE-TRANSPORT REQUIREMENTS		
		CONTAINER MGT=SAT'LITE ACCUMS/CONTAINER		
		GENERATOR-SPECIAL CONDITIONS		19990929
		PERSONNEL TRAINING RECORDS		
		TSD-CONTAINERS REQUIREMENTS		19990928
		TSD-CONTAINERS REQUIREMENTS		
		TSD-PREPAREDNESS/PREVENTION REQUIREMENTS		
		TSD INSPECTION SCHEDULE & LOG		
		TSD INSPECTION SCHEDULE & LOG		
		PERSONNEL TRAINING RECORDS		
	FEI	GENERATOR-LAND BAN REQUIREMENTS		19990929
		HAZARDOUS WASTE DETERMINATIONS		19990929
	Compliance Evaluation Inspection	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS		
		TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS		
		TSD-OTHER REQUIREMENTS (OVERSIGHT)		
		TSD-CLOSURE/POST-CLOSURE REQUIREMENTS		
		TSD-OTHER REQUIREMENTS (OVERSIGHT)		
		FORMAL ENFORCEMENT AGREEMENT		
		FORMAL ENFORCEMENT AGREEMENT		
		TSD-OTHER REQUIREMENTS (OVERSIGHT)		
		TSD-OTHER REQUIREMENTS (OVERSIGHT)		
		TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS		
		TSD-OTHER REQUIREMENTS (OVERSIGHT)		
		TSD-OTHER REQUIREMENTS (OVERSIGHT)		
		TSD-CLOSURE/POST-CLOSURE REQUIREMENTS		
		TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS		
		TSD-OTHER REQUIREMENTS (OVERSIGHT)		
		TSD-OTHER REQUIREMENTS (OVERSIGHT)		
		TSD-OTHER REQUIREMENTS (OVERSIGHT)		
		TSD-CORRECTIVE ACTION COMPLIANCE SCHEDULE		
		TSD-CORRECTIVE ACTION COMPLIANCE SCHEDULE		
		GENERATOR-MANIFEST REQUIREMENTS		
		TSD-CONTINGENCY PLAN REQUREMENTS		
		TSD-CONTAINERS REQUIREMENTS		19990929
		TSD-CONTAINERS REQUIREMENTS		
		GENERATOR-LAND BAN REQUIREMENTS		19990929
		HAZARDOUS WASTE DETERMINATIONS		19990929
		HAZARDOUS WASTE DETERMINATIONS		19990929
		CONTAINER MGT=SAT'LITE ACCUMS/CONTAINER		19990928
		GENERATOR-PRE-TRANSPORT REQUIREMENTS		
		GENERATOR-PRE-TRANSPORT REQUIREMENTS		
		CONTAINER MGT=SAT'LITE ACCUMS/CONTAINER		
		CONTAINER MGT=SAT'LITE ACCUMS/CONTAINER		19990928
		GENERATOR-SPECIAL CONDITIONS		19990928
		GENERATOR-OTHER REQUIREMENTS		
		TSD-PART B APPLICATION		
		TSD-PART B APPLICATION		

HANDY & HARMON (Continued) **1000193605**

	GENERATOR RECYCLE/RECLAIM	19990929
	HAZARDOUS WASTE DETERMINATIONS	19990929
	GENERATOR-MANIFEST REQUIREMENTS	19990929
	CONTAINER MGT=SAT'LITE ACCUMS/CONTAINER	19990929
	GENERATOR-PRE-TRANSPORT REQUIREMENTS	19990929
	GENERATOR-PRE-TRANSPORT REQUIREMENTS	19990929
	CONTAINER MGT=SAT'LITE ACCUMS/CONTAINER	19990929
	PREPARDNESS AND PREVENTION	19990929
	GENERATOR-LAND BAN REQUIREMENTS	19990929
	GENERATOR-LAND BAN REQUIREMENTS	19990929
	GENERATOR-LAND BAN REQUIREMENTS	
	GENERATOR-LAND BAN REQUIREMENTS	19990929
	GENERATOR-OTHER REQUIREMENTS	19990929
	TSD RECYCLE/RECLAIM	
	TSD-CONTAINERS REQUIREMENTS	
	TSD-OTHER REQUIREMENTS	
	GENERATOR RECYCLE/RECLAIM	
	GENERATOR-LAND BAN REQUIREMENTS	
	GENERATOR-LAND BAN REQUIREMENTS	
	GENERATOR RECYCLE/RECLAIM	
	HAZARDOUS WASTE DETERMINATIONS	19990929
	GENERATOR-MANIFEST REQUIREMENTS	
	GENERATOR-LAND BAN REQUIREMENTS	
	GENERATOR-LAND BAN REQUIREMENTS	
	GENERATOR-LAND BAN REQUIREMENTS	
	GENERATOR-LAND BAN REQUIREMENTS	
	GENERATOR RECYCLE/RECLAIM	
	GENERATOR RECYCLE/RECLAIM	
	GENERATOR-OTHER REQUIREMENTS	
	HAZARDOUS WASTE DETERMINATIONS	19990929
	GENERATOR-MANIFEST REQUIREMENTS	
	CONTAINER MGT=SAT'LITE ACCUMS/CONTAINER	
	GENERATOR-PRE-TRANSPORT REQUIREMENTS	
	GENERATOR-PRE-TRANSPORT REQUIREMENTS	
	CONTAINER MGT=SAT'LITE ACCUMS/CONTAINER	
	CONTAINER MGT=SAT'LITE ACCUMS/CONTAINER	
	PREPARDNESS AND PREVENTION	
	PREPARDNESS AND PREVENTION	
	GENERATOR INSPECTION SCHEDULE & LOG	
	CONTAINER MGT=SAT'LITE ACCUMS/CONTAINER	
	GENERATOR-SPECIAL CONDITIONS	19990929
	PERSONNEL TRAINING RECORDS	
	GENERATOR-RECORDKEEPING REQUIREMENTS	
	GENERATOR-LAND BAN REQUIREMENTS	
	GENERATOR-LAND BAN REQUIREMENTS	
	GENERATOR-LAND BAN REQUIREMENTS	
	GENERATOR-LAND BAN REQUIREMENTS	
	TSD RECYCLE/RECLAIM	
	TSD-PART B APPLICATION	
	TSD-CONTAINERS REQUIREMENTS	19990928
	TSD-CONTAINERS REQUIREMENTS	
	TSD-PREPAREDNESS/PREVENTION REQUIREMENTS	
	TSD INSPECTION SCHEDULE & LOG	
	TSD INSPECTION SCHEDULE & LOG	
	PERSONNEL TRAINING RECORDS	
	WASTE ANALYSIS PLAN	
	WASTE ANALYSIS PLAN	

	HANDY & HARMON (Continued)			**1000193605**
		OPERATING RECORDS		
		TSD-OTHER REQUIREMENTS		
		TSD-CLOSURE/POST-CLOSURE REQUIREMENTS		
		TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS		
		TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS		
		TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS		
		TSD RECYCLE/RECLAIM		
		GENERATOR-OTHER REQUIREMENTS		
		HAZARDOUS WASTE DETERMINATIONS		19990929
		TSD RECYCLE/RECLAIM		
		COMPLIANCE SCHEDULE VIOLATION		
	Compliance Evaluation Inspection	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS		
		TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS		
		TSD-OTHER REQUIREMENTS (OVERSIGHT)		
		TSD-CLOSURE/POST-CLOSURE REQUIREMENTS		
		TSD-OTHER REQUIREMENTS (OVERSIGHT)		
		TSD-OTHER REQUIREMENTS (OVERSIGHT)		
		TSD-OTHER REQUIREMENTS (OVERSIGHT)		
		TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS		
		TSD-OTHER REQUIREMENTS (OVERSIGHT)		
		TSD-OTHER REQUIREMENTS (OVERSIGHT)		
		GENERATOR-LAND BAN REQUIREMENTS		19911028
		TSD-CLOSURE/POST-CLOSURE REQUIREMENTS		
		TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS		
		TSD-OTHER REQUIREMENTS (OVERSIGHT)		
		TSD-OTHER REQUIREMENTS (OVERSIGHT)		
		GENERATOR-LAND BAN REQUIREMENTS		19911028
		TSD-LAND BAN REQUIREMENTS		19911028
		TSD-OTHER REQUIREMENTS (OVERSIGHT)		
		HAZARDOUS WASTE DETERMINATIONS		19940921
		GENERATOR-MANIFEST REQUIREMENTS		
		TSD INSPECTION SCHEDULE & LOG		19930927
		TSD-CONTINGENCY PLAN REQUREMENTS		
		TSD-CONTAINERS REQUIREMENTS		19990929
		TSD-CONTAINERS REQUIREMENTS		
	Compliance Schedule Evaluation	FORMAL ENFORCEMENT AGREEMENT		
		FORMAL ENFORCEMENT AGREEMENT		
		TSD-CORRECTIVE ACTION COMPLIANCE SCHEDULE		
		TSD-CORRECTIVE ACTION COMPLIANCE SCHEDULE		
	Compliance Evaluation Inspection	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS		
		TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS		
		TSD-OTHER REQUIREMENTS (OVERSIGHT)		
		TSD-OTHER REQUIREMENTS (OVERSIGHT)		
		GENERATOR-LAND BAN REQUIREMENTS		19911028
		TSD-LAND BAN REQUIREMENTS		19911028
		TSD-OTHER REQUIREMENTS (OVERSIGHT)		
	Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS (OVERSIGHT)		
		TSD-OTHER REQUIREMENTS (OVERSIGHT)		
		TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS		
		TSD-OTHER REQUIREMENTS (OVERSIGHT)		
		TSD-OTHER REQUIREMENTS (OVERSIGHT)		
		GENERATOR-LAND BAN REQUIREMENTS		19911028
		TSD-LAND BAN REQUIREMENTS		19911028
	Compliance Evaluation Inspection	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS		
		TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS		
		TSD-OTHER REQUIREMENTS (OVERSIGHT)		
		TSD-CLOSURE/POST-CLOSURE REQUIREMENTS		

HANDY & HARMON (Continued) **1000193605**

TSD-OTHER REQUIREMENTS (OVERSIGHT)

FINDS:

Other Pertinent Environmental Activity Identified at Site:

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.

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.

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.

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.

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.

CT MANIFEST:

Year:	1997
Manifest ID:	CTF0401200
TSDF EPA ID:	CTD981205271
TSDF Name:	HANDY AND HARMAN REFINING GROUP INC
TSDF Address:	Not reported
TSDF City,St,Zip:	Not reported
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	03/12/97
Transporter EPA ID:	CTD981069099
Transporter Name:	L P M TRUCKING CORPORATION
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	03/14/97
Trans 2 EPA ID:	CTD981069099
Trans 2 Name:	L P M TRUCKING CORPORATION
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA

HANDY & HARMON (Continued) **1000193605**

Trans 2 Phone:	Not reported
Generator EPA ID:	PAD073586729
Gererator Phone:	2152860420
Generator Address:	Not reported
Generator City,State,Zip:	Not reported
Generator Country:	Not reported
Special Handling:	Not reported
Discrepancies:	Not reported
Date Shipped:	03/12/97
Date Received:	03/14/97
Last modified date:	04/26/04
Last modified by:	IG
Comments:	Not reported

Click this hyperlink while viewing on your computer to access
23 additional CT MANIFEST: record(s) in the EDR Site Report.

NY MANIFEST:

Document ID:	NYB1497735
Manifest Status:	C
Trans1 State ID:	PA7109(NY
Trans2 State ID:	Not reported
Generator Ship Date:	890925
Trans1 Recv Date:	890925
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	890927
Part A Recv Date:	891012
Part B Recv Date:	891003
Generator EPA ID:	CTD018656819
Trans1 EPA ID:	NYD980769947
Trans2 EPA ID:	Not reported
TSDF ID:	NYD000632372
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00010
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	89
Facility Type:	Both Generator and TSD
EPA ID:	CTD018656819
Facility Name:	HANDY & HARMON FAIRFIELD PLANT
Facility Address:	1770 KINGS HWY
Facility City:	FAIRFIELD
Facility Zip 4:	5399
Country:	Not reported
County:	Not reported
Mailing Name:	HANDY & HARMON FAIRFIELD PLANT
Mailing Contact:	BARRY WAYNE
Mailing Address:	1770 KINGS HWY
Mailing City:	FAIRFIELD
Mailing State:	CT
Mailing Zip:	06430
Mailing Zip4:	5399
Mailing Country:	USA
Mailing Phone:	203-259-8321

HANDY & HARMON (Continued) **1000193605**

Mailing Name:	HANDY & HARMON
Mailing Contact:	Not reported
Mailing Address:	1770 KINGS HWY
Mailing City:	FAIRFIELD
Mailing State:	CT
Mailing Zip:	06430
Mailing Zip4:	5399
Mailing Country:	USA
Mailing Phone:	203-259-8321

Click this hyperlink while viewing on your computer to access
33 additional NY MANIFEST: record(s) in the EDR Site Report.

RI MANIFEST:

Manifest Docket Number:	PAH161360
Waste Description:	NON DOT REGULATED MATERIAL
Quantity:	1215.00
WT/Vol Units:	K
Item Number:	3
Transporter Name:	Clean Harbors Environmental Serv
Transporter EPA ID:	MAD039322250
ID:	109003
GEN Cert Date:	12/15/2004 0:00:00
Transporter Recpt Date:	12/8/2004 0:00:00
Transporter 2 Recpt Date:	Not reported
TSDF Recpt Date:	12/15/2004 0:00:00
EPA ID:	CTD018656819
Number Of Containers:	7
Container Type:	DM
Waste Code1:	NONE
Waste Code2:	Not reported
Waste Code3:	Not reported
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDF Name:	Clean Harbors PPM LLC
TSDF ID:	PAD981113749
Data Source:	ma emor table
Date Imported:	3/3/2005 15:38:24
Transporter 2 Name:	Not reported
Transporter 2 ID:	Not reported
Quantity in LBS.:	2430
Fee Reported:	$0.00

Manifest Docket Number:	PAH161360
Waste Description:	NON DOT REGULATED MATERIAL
Quantity:	5483.00
WT/Vol Units:	K
Item Number:	2
Transporter Name:	Clean Harbors Environmental Serv
Transporter EPA ID:	MAD039322250
ID:	109002
GEN Cert Date:	12/15/2004 0:00:00
Transporter Recpt Date:	12/8/2004 0:00:00
Transporter 2 Recpt Date:	Not reported

HANDY & HARMON (Continued) **1000193605**

TSDF Recpt Date:	12/15/2004 0:00:00
EPA ID:	CTD018656819
Number Of Containers:	2
Container Type:	CM
Waste Code1:	NONE
Waste Code2:	Not reported
Waste Code3:	Not reported
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDF Name:	Clean Harbors PPM LLC
TSDF ID:	PAD981113749
Data Source:	ma emor table
Date Imported:	3/3/2005 15:38:24
Transporter 2 Name:	Not reported
Transporter 2 ID:	Not reported
Quantity in LBS.:	10966
Fee Reported:	$0.00

Manifest Docket Number:	PAH161360
Waste Description:	POLYCHLORINATED BIPHENYLS, LIQUID
Quantity:	105.00
WT/Vol Units:	K
Item Number:	1
Transporter Name:	Clean Harbors Environmental Serv
Transporter EPA ID:	MAD039322250
ID:	109001
GEN Cert Date:	12/15/2004 0:00:00
Transporter Recpt Date:	12/8/2004 0:00:00
Transporter 2 Recpt Date:	Not reported
TSDF Recpt Date:	12/15/2004 0:00:00
EPA ID:	CTD018656819
Number Of Containers:	1
Container Type:	DM
Waste Code1:	NONE
Waste Code2:	Not reported
Waste Code3:	Not reported
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDF Name:	Clean Harbors PPM LLC
TSDF ID:	PAD981113749
Data Source:	ma emor table
Date Imported:	3/3/2005 15:38:24
Transporter 2 Name:	Not reported
Transporter 2 ID:	Not reported
Quantity in LBS.:	210
Fee Reported:	$0.00

Manifest Docket Number:	PAH161360
Waste Description:	POLYCHLORINATED BIPHENYLS,SOLID
Quantity:	48.00
WT/Vol Units:	K

HANDY & HARMON (Continued) **1000193605**

Item Number:	4
Transporter Name:	Clean Harbors Environmental Serv
Transporter EPA ID:	MAD039322250
ID:	109004
GEN Cert Date:	12/15/2004 0:00:00
Transporter Recpt Date:	12/8/2004 0:00:00
Transporter 2 Recpt Date:	Not reported
TSDF Recpt Date:	12/15/2004 0:00:00
EPA ID:	CTD018656819
Number Of Containers:	1
Container Type:	DM
Waste Code1:	NONE
Waste Code2:	Not reported
Waste Code3:	Not reported
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDF Name:	Clean Harbors PPM LLC
TSDF ID:	PAD981113749
Data Source:	ma emor table
Date Imported:	3/3/2005 15:38:24
Transporter 2 Name:	Not reported
Transporter 2 ID:	Not reported
Quantity in LBS.:	96
Fee Reported:	$0.00

Manifest Docket Number:	CTF0638450
Waste Description:	NON REG WASTE OIL
Quantity:	275.00
WT/Vol Units:	G
Item Number:	14214
Transporter Name:	BECHEM TRANSPORT, INC.
Transporter EPA ID:	CTD982191942
ID:	99117
GEN Cert Date:	9/8/1998 0:00:00
Transporter Recpt Date:	Not reported
Transporter 2 Recpt Date:	Not reported
TSDF Recpt Date:	Not reported
EPA ID:	CTD018656819
Number Of Containers:	0
Container Type:	Not reported
Waste Code1:	CR02
Waste Code2:	Not reported
Waste Code3:	Not reported
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDF Name:	NORTHLAND ENVIRONMENTAL INC.
TSDF ID:	RID040098352
Data Source:	MD-ELEC
Date Imported:	1/14/1999 0:00:00
Transporter 2 Name:	Not reported
Transporter 2 ID:	Not reported

HANDY & HARMON (Continued) **1000193605**

Quantity in LBS.: 2200
Fee Reported: Not reported

Click this hyperlink while viewing on your computer to access
19 additional RI MANIFEST: record(s) in the EDR Site Report.

23
SSE
1/2-1
2969 ft.

Relative:
Lower

Actual:
25 ft.

BULLARD DIVISION **LWDS** **W991103058**
LANDFILL **N/A**
, CT

LWDS:

ArcView Legend Symbology:	LANDFILL
Leachate and Wastewater Number:	7106011
Status of the Discharge Activity:	INACTIVE
Leachate and Waste Flow:	GROUND
Feature Number on Hazardous Waste List:	40
Subregional Basin Feature Number:	7106
Name:	Bullard Division
Alias:	Not reported
Leachate and Wastewater Name:	LANDFILL
Description:	metal hydroxide sludge pile
Description 2:	Not reported
State Plane x:	865956
State Plane y:	618655
Longitude:	-73.23677
Latitude:	41.15795
Mercator y:	13136639.34117

24
South
1/2-1
3245 ft.

Relative:
Lower

Actual:
21 ft.

HANDY & HARMON **LWDS** **W991102851**
COOLING/IND DISCHRG **N/A**
, CT

LWDS:

ArcView Legend Symbology:	COOL&INDUS
Leachate and Wastewater Number:	7106012
Status of the Discharge Activity:	ACTIVE
Leachate and Waste Flow:	SURFACE
Feature Number on Hazardous Waste List:	0
Subregional Basin Feature Number:	7106
Name:	Handy & Harmon
Alias:	Not reported
Leachate and Wastewater Name:	COOLING/IND DISCHRG
Description:	combined metals & cooling water discharge
Description 2:	Wetlands contaminated with metals
State Plane x:	864920
State Plane y:	617987
Longitude:	-73.24052
Latitude:	41.1561
Mercator y:	13135925.07504

25
ESE
1/2-1
3420 ft.

BJ'S WHOLESALE
LEAKING UNGRND TANK
, CT

LWDS

W991102713
N/A

Relative:
Lower

Actual:
39 ft.

LWDS:

ArcView Legend Symbology:	UNDGR TANK
Leachate and Wastewater Number:	7106015
Status of the Discharge Activity:	INACTIVE
Leachate and Waste Flow:	GROUND
Feature Number on Hazardous Waste List:	1342
Subregional Basin Feature Number:	7106
Name:	BJ's Wholesale
Alias:	Bullard Square
Leachate and Wastewater Name:	LEAKING UNGRND TANK
Description:	Not reported
Description 2:	Not reported
State Plane x:	867634
State Plane y:	620019
Longitude:	-73.2307
Latitude:	41.16172
Mercator y:	13138096.49716

26
ESE
1/2-1
3551 ft.

BULLARD DIVISION
INDUSTRIAL PIT
, CT

LWDS

W991102795
N/A

Relative:
Lower

Actual:
23 ft.

LWDS:

ArcView Legend Symbology:	INDUST PIT
Leachate and Wastewater Number:	7106009
Status of the Discharge Activity:	INACTIVE
Leachate and Waste Flow:	GROUND
Feature Number on Hazardous Waste List:	157
Subregional Basin Feature Number:	7106
Name:	Bullard Division
Alias:	Not reported
Leachate and Wastewater Name:	INDUSTRIAL PIT
Description:	lagoon for foundry waste
Description 2:	Not reported
State Plane x:	867623
State Plane y:	619662
Longitude:	-73.23074
Latitude:	41.16074
Mercator y:	13137717.62199

27
ESE
1/2-1
3624 ft.

BULLARD DIVISION
MISCELLANEOUS -SURF
, CT

LWDS

W991102796
N/A

Relative:
Lower

Actual:
43 ft.

LWDS:

ArcView Legend Symbology:	MISC -SURF
Leachate and Wastewater Number:	7106010
Status of the Discharge Activity:	INACTIVE
Leachate and Waste Flow:	SURFACE
Feature Number on Hazardous Waste List:	1342
Subregional Basin Feature Number:	7106

BULLARD DIVISION (Continued) **W991102796**

Name:	Bullard Division
Alias:	BJ's Wholesale
Leachate and Wastewater Name:	MISCELLANEOUS -SURF
Description:	Former combined industrial & cooling water discharge; OB
Description 2:	Not reported
State Plane x:	867774
State Plane y:	619822
Longitude:	-73.23019
Latitude:	41.16118
Mercator y:	13137888.19691

---

28 **BULLARD COMPANY** **SHWS S104253811**
ESE **40 BLACK ROCK TURNPIKE** **SDADB N/A**
1/2-1 **FAIRFIELD, CT**
3678 ft.

Relative:
Lower

Actual:
34 ft.

SHWS:

State ID:	157
PTP Id Number:	Not reported
WPC Number:	Not reported
EPA ID:	CTD044117281
PO Office:	Not reported
Lat/Long:	41.1611/-73.2300
Location Method:	UNK
Groundwater Class:	Not reported
Surface Water Qualification:	Not reported
Waste Category:	METALS, PCB, CHLR VOC
Disposal Method:	LAGOON, UST, SPILL/DUMP
Sample:	False
Other Dept of Env. Protection:	SPILLS
Updated By:	DORAN, E.
Update Program:	CORE
Date Updated:	8/25/1999
Duplicate:	Not reported
Program:	7/6/1987
Inventory Date:	TTRIINVENT
On Inventory:	O
Assessed:	R
87 Group:	Y
87 Origin:	T H
On 87:	Not reported

Comments: ORDER HM 158 GW MONITORING WELLS ON-SITE. SLUDGE REMOVED FORM LAGOON. CLEANUP OF SLUDGE PITS STILL ON-GOING IN 1986. (7/87) TRANSFER: FORM III - 4/21/91; III - 11/1/91; III - 9/30/93 FORMER TOOL MFG REDEVELOPED SOIL REMOVAL AND REUSE ON SITE. REUSE DONE PER VERBAL OK FROM SPILLS. PCB'S REMEDIATED DEP APPROVAL LETTER 6/18/91. PROPERTY IS IN BOTH BRIDGEPORT AND FAIRFIELD. ON CERCLIS AS BULLARD IN BRIDGEPORT (SID 40). ALSO ENTERED AS 1342 WHICH WAS DELETED 8/99

Facility ID:	157
Rem ID:	Not reported
PTP Id:	Not reported
WPC Number:	Not reported
Postal District:	Not reported
Latitude:	41.1611
Longitude:	-73.23
Lat/Long Determined By:	UNK
Ground Water Quality Classification:	Not reported

BULLARD COMPANY (Continued) **S104253811**

Surface Water Quality Classification:	Not reported
Waste Type:	METALS, PCB, CHLR VOC
Disposal:	LAGOON, UST, SPILL/DUMP
Sample Data Available:	No
Updated By:	DORAN, E.
Update Program:	CORE
Updated:	8/25/1999
Duplicate:	No
EPA CERCLIS Id:	Not reported
Number EPA RCRIS Id:	Not reported
Site on EPA's CERCLIS:	Not reported
Site Archived from CERCLIS:	Not reported
Archive Date:	Not reported
EPA's Removal at Site:	Not reported
Deferred to another EPA Program:	Not reported
EPA Env Priority Initiative Site:	Not reported
Federal Facility:	Not reported
Site on EPA's National Priority List:	Not reported
Part of an NPL site:	Not reported
RCRA Generator Status:	Not reported
RCRA Permit Status:	Not reported
Referral Id:	153
Source of referral:	SUPERFUND
Date Received:	7/6/1987
Staff Assigned:	DEP
Remediation Program:	SUPERFUND
Date assigned:	7/6/1987
Remediation Complete Approved DEP/Verified by LEP:	7/6/1987
Outcome:	INVENTORY
Referral Id:	3549
Source of referral:	PTP
Date Received:	7/1/1992
Staff Assigned:	LEONARD, E.
Remediation Program:	PTP
Date assigned:	7/1/1992
Remediation Complete Approved DEP/Verified by LEP:	9/20/1994
Outcome:	INVENTORY
Remedial Id:	280
PTP Id:	585
Remediation Program:	III
Remediation Program Entered:	Not reported
Staff Assigned:	HILL, P.
Remediation Program:	PTP
Date assigned:	Not reported
Project Phase:	A
Order issued:	No
Order Number:	Not reported
Date order issued:	Not reported
Remedial Investigation Start:	Not reported
Remedial Investigation Completed:	Not reported
Remedial Design Start:	Not reported
Remedial Design complet:	Not reported
Remedial Action Start:	Not reported
Remedial Action Completed:	Not reported
Date Oper/ maintenance Started:	Not reported
GW monitoring:	No
Remediation complete Approved DEP/Verified by LEP:	Not reported

BULLARD COMPANY (Continued) **S104253811**

Order Id:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Staff Assigned:	Not reported
Type of Order:	Not reported
Order Respondent:	Not reported
Admin Appeal Date:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Final Order:	Not reported
Date of Court Appeal:	Not reported
Date of Court Ruling:	Not reported
Date of Court Ruling:	Not reported
Date Order Modified:	Not reported
Date Order Revoked:	Not reported
Date Referred to AG:	Not reported
Judgement:	Not reported
Date of AGR judgement:	Not reported
Penalty assessed:	Not reported
Order Complete:	Not reported
In compliance:	Not reported
Orders Comment:	Not reported
Comments:	ORDER HM 158 GW MONITORING WELLS ON-SITE. SLUDGE REMOVED FORM LAGOON. CLEANUP OF SLUDGE PITS STILL ON-GOING IN 1986. (7/87) TRANSFER: FORM III - 4/21/91; III - 11/1/91; III - 9/30/93 FORMER TOOL MFG REDEVELOPED SOIL REMOVAL AND REUSE ON SITE. REUSE DONE PER VERBAL OK FROM SPILLS. PCB'S REMEDIATED DEP APPROVAL LETTER 6/18/91. PROPERTY IS IN BOTH BRIDGEPORT AND FAIRFIELD. ON CERCLIS AS BULLARD IN BRIDGEPORT (SID 40). ALSO ENTERED AS 1342 WHICH WAS DELETED 8/99

29
ESE
1/2-1
4209 ft.

BULLARD COMPANY
286 CANFIELD AVENUE
BRIDGEPORT, CT 06605

SHWS **S104253377**
CT PROPERTY **N/A**
SDADB

Relative:
Lower

Actual:
33 ft.

SHWS:

State ID:	40
PTP Id Number:	Not reported
WPC Number:	Not reported
EPA ID:	CTD044117281
PO Office:	Not reported
Lat/Long:	/
Location Method:	Not reported
Groundwater Class:	GB
Surface Water Qualification:	Not reported
Waste Category:	METALS, MOH SLUDGE
Disposal Method:	LANDFILL
Sample:	False
Other Dept of Env. Protection:	HMMU
Updated By:	BOBOWICZ, H. A.
Update Program:	D&A
Date Updated:	8/24/1999
Duplicate:	Not reported
Program:	7/6/1987
Inventory Date:	TTECRCRA
On Inventory:	Not reported
Assessed:	Not reported
87 Group:	Not reported

BULLARD COMPANY (Continued) **S104253377**

87 Origin: T H
On 87: Not reported
Comments: A.K.A.: INVEST II ORDER HM-158. GROUNDWATER MONITORING WELLS INSTALLED. REMEDIATION COMPLETE.(3/94) SITE IS IN BOTH BRIDGEPORT AND FAIRFIELD (SID 157). SITE IS ON CERCLIS IN BRDIGEPORT. REMOVAL ASSESSMENT DONE 5/2/90 ALSO LISTED PREVIOUSLY AS1343 WHICH WAS DELETED. (8/99) W C I MACHINE TOOLS & SYSTEMS

CT Property:
Seller Name: InVest II
Buyer Name: National Amusements, Inc.
Certifying Party: Not reported
Certifying Attention Person: Not reported
Title Of Certifying Person: Not reported
Certifying Person Address: Not reported
Certifying Person City,St,Zip: Not reported
Property Transfer Forms: Form III (DEP-PERD-PTP-203) when a discharge, spillage, uncontrolled loss, seepage or filtration of hazardous waste has occurred at the parcel that has not been fully remediated or the environmental conditions at the parcel are unknown. The person signing the Form III certification agrees to investigate and remediate the site in accordance with the remediation standards. The statute does not require completion of remediation before the parcel is transferred. Any person submitting a Form III shall simultaneously submit a completed Environmental Condition Assessment Form (ECAF)(DEP-PERD-PTP-200).
Date Recieved: 8/5/1992
Ackn Date: 9/23/1992
Determination Date: Not reported
LEP Verified/DEP Approval Date: 3/3/1994
Date Data Updated: 5/19/2006

Facility ID: 40
Rem ID: Not reported
PTP Id: Not reported
WPC Number: Not reported
Postal District: Not reported
Latitude: Not reported
Longitude: Not reported
Lat/Long Determined By: Not reported
Ground Water Quality Classification: GB
Surface Water Quality Classification: Not reported
Waste Type: METALS, MOH SLUDGE
Disposal: LANDFILL
Sample Data Available: No
Updated By: BOBOWICZ, H. A.
Update Program: D&A
Updated: 8/24/1999
Duplicate: No
EPA CERCLIS Id: Not reported
Number EPA RCRIS Id: Not reported
Site on EPA's CERCLIS: Yes
Site Archived from CERCLIS: No
Archive Date: Not reported
EPA's Removal at Site: Yes
Deferred to another EPA Program: No
EPA Env Priority Initiative Site: No
Federal Facility: No
Site on EPA's National Priority List: No

BULLARD COMPANY (Continued) **S104253377**

Part of an NPL site:	No
RCRA Generator Status:	SG
RCRA Permit Status:	Not reported
Referral Id:	40
Source of referral:	RCRA
Date Received:	7/6/1987
Staff Assigned:	DEP
Remediation Program:	SUPERFUND
Date assigned:	7/6/1987
Remediation Complete Approved DEP/Verified by LEP:	7/6/1987
Outcome:	INVENTORY
Referral Id:	3542
Source of referral:	PTP
Date Received:	8/5/1992
Staff Assigned:	BOBOWICZ, H. A.
Remediation Program:	PTP
Date assigned:	8/5/1992
Remediation Complete Approved DEP/Verified by LEP:	8/5/1992
Outcome:	PTP
Remedial Id:	233
PTP Id:	174
Remediation Program:	III
Remediation Program Entered:	Not reported
Staff Assigned:	BOBOWICZ, H. A.
Remediation Program:	PTP
Date assigned:	Not reported
Project Phase:	C
Order issued:	No
Order Number:	Not reported
Date order issued:	Not reported
Remedial Investigation Start:	Not reported
Remedial Investigation Completed:	Not reported
Remedial Design Start:	Not reported
Remedial Design complet:	Not reported
Remedial Action Start:	Not reported
Remedial Action Completed:	Not reported
Date Oper/ maintenance Started:	Not reported
GW monitoring:	No
Remediation complete Approved DEP/Verified by LEP:	3/3/1994
Order Id:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Staff Assigned:	Not reported
Type of Order:	Not reported
Order Respondent:	Not reported
Admin Appeal Date:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Final Order:	Not reported
Date of Court Appeal:	Not reported
Date of Court Ruling:	Not reported
Date of Court Ruling:	Not reported
Date Order Modified:	Not reported
Date Order Revoked:	Not reported
Date Referred to AG:	Not reported
Judgement:	Not reported
Date of AGR judgement:	Not reported

BULLARD COMPANY (Continued) **S104253377**

Penalty assessed: Not reported
Order Complete: Not reported
In compliance: Not reported
Orders Comment: Not reported
Comments: A.K.A.: INVEST II ORDER HM-158. GROUNDWATER MONITORING WELLS INSTALLED. REMEDIATION COMPLETE.(3/94) SITE IS IN BOTH BRIDGEPORT AND FAIRFIELD (SID 157). SITE IS ON CERCLIS IN BRDIGEPORT. REMOVAL ASSESSMENT DONE 5/2/90 ALSO LISTED PREVIOUSLY AS1343 WHICH WAS DELETED. (8/99) W C I MACHINE TOOLS & SYSTEMS

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30 **LWDS** **W991102560**
ESE **OIL/CHEMICAL SPILLS** **N/A**
1/2-1 **, CT**
4834 ft.

Relative:
Lower

Actual:
43 ft.

LWDS:

ArcView Legend Symbology:	SPILL
Leachate and Wastewater Number:	7106013
Status of the Discharge Activity:	INACTIVE
Leachate and Waste Flow:	GROUND
Feature Number on Hazardous Waste List:	0
Subregional Basin Feature Number:	7106
Name:	Not reported
Alias:	Not reported
Leachate and Wastewater Name:	OIL/CHEMICAL SPILLS
Description:	Spill
Description 2:	Not reported
State Plane x:	869138
State Plane y:	620129
Longitude:	-73.22524
Latitude:	41.16205
Mercator y:	13138221.38278

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
FAIRFIELD	1007924266	PURSANT TO CT. GENERAL STATUTE 22A-4511 RESP.	I 95 REST AREA		CT MANIFEST
FAIRFIELD	1007910307	CONNECTICUT DEPARTMENT OF TRANSPORTATION	BRIDGE 94 (I-95)		CT MANIFEST
FAIRFIELD	1007931356	STATE OF CONNECTICUT DOT	EXIT 22 I 95		CT MANIFEST
FAIRFIELD	1007938832	CT STATE OF DOT	GRASSMERE / KINGS HWY WEST		CT MANIFEST
FAIRFIELD	1007910311	CT. DEPT. OF TRANSPORTATION	I-95		CT MANIFEST
FAIRFIELD	1007910310	CT. DEPT. OF TRANSPORTATION	I-95		CT MANIFEST
FAIRFIELD	1007910305	CONN. DEPT. OF TRANSPORTATION	I-95		CT MANIFEST
FAIRFIELD	1007910306	CONN. DEPT. OF TRANSPORTATION	I-95		CT MANIFEST
FAIRFIELD	1007886056	SHELL STATION	975 KINGS HIGHWAY		CT Spills, CT MANIFEST
FAIRFIELD	1007894027	LIL SEAGAL	80 KINGS HIGHWAY		CT MANIFEST
FAIRFIELD	1007931041	GETTY	721 KINGS HWY		CT MANIFEST
FAIRFIELD	1007939484	GETTY	721 KINGS HWY.		CT MANIFEST
FAIRFIELD	S104483392	CLARK METAL PRODUCTS INC	75 KINGS HIGHWAY		SHWS, CT PROPERTY, SDADB
FAIRFIELD	S107737894	SMITH RICHARD GOLF COURSE	2425 MOREHOUSE HIGHWAY	06824	NY MANIFEST
FAIRFIELD	1007910379	CT DEPT. OF TRANSPORTATION	OLD POST RD.		CT MANIFEST
FAIRFIELD	1007952828	TOWN OF FAIRFIELD PUBLIC WORKS	ONE ROD HIGHWAY		CT MANIFEST
FAIRFIELD	S106056690	FORMER SHELL FACILITY 136309	2047 POST ROAD		LUST, CT Spills, CT PROPERTY
FAIRFIELD	S106660462		AT PUBLIC WORKS COMPLEX / STP		SWF/LF
FAIRFIELD	1007913261	MERRITT PKWY.-EASTBOUND	RESTAREA AT EXIT 46 RT. 59		CT MANIFEST
FAIRFIELD	S104253842	MOBIL SERVICE STA.06-FD6	I-95 SOUTHBOUND		SDADB

EPA Waste Codes Addendum

Code	Description
D001	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.
D002	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.
D003	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.
D005	BARIUM
D006	CADMIUM
D008	LEAD
D009	MERCURY
D010	SELENIUM
D011	SILVER
F001	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.
F002	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.

EPA Waste Codes Addendum

Code	Description
F003	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.
F005	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.
U121	METHANE, TRICHLOROFLUORO-
U121	TRICHLOROMONOFLUOROMETHANE

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.

FEDERAL RECORDS

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: 04/19/2006
Date Data Arrived at EDR: 05/05/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 17

Source: EPA
Telephone: N/A
Last EDR Contact: 05/05/2006
Next Scheduled EDR Contact: 07/31/2006
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 8
Telephone: 303-312-6774

EPA Region 4
Telephone 404-562-8033

Proposed NPL: Proposed National Priority List Sites

Date of Government Version: 04/19/2006
Date Data Arrived at EDR: 05/05/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 17

Source: EPA
Telephone: N/A
Last EDR Contact: 05/05/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Quarterly

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: 04/19/2006
Date Data Arrived at EDR: 05/05/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 17

Source: EPA
Telephone: N/A
Last EDR Contact: 05/05/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Quarterly

NPL RECOVERY: 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: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 02/01/2006
Date Data Arrived at EDR: 03/21/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 23

Source: EPA
Telephone: 703-413-0223
Last EDR Contact: 06/22/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Quarterly

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: 02/01/2006
Date Data Arrived at EDR: 03/21/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 23

Source: EPA
Telephone: 703-413-0223
Last EDR Contact: 06/23/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/15/2006
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 05/21/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Quarterly

RCRA: Resource Conservation and Recovery Act Information

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. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). 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. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site 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: 03/09/2006
Date Data Arrived at EDR: 04/27/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 33

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/28/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Quarterly

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: 12/31/2005
Date Data Arrived at EDR: 01/12/2006
Date Made Active in Reports: 02/21/2006
Number of Days to Update: 40

Source: National Response Center, United States Coast Guard
Telephone: 202-260-2342
Last EDR Contact: 04/26/2006
Next Scheduled EDR Contact: 07/24/2006
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 46

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 04/14/2006
Next Scheduled EDR Contact: 07/17/2006
Data Release Frequency: Annually

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: 03/21/2006
Date Data Arrived at EDR: 03/27/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 703-603-8905
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
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: 03/21/2006
Date Data Arrived at EDR: 03/27/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 703-603-8905
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
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: 12/31/2004
Date Data Arrived at EDR: 02/08/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 177

Source: USGS
Telephone: 703-692-8801
Last EDR Contact: 05/12/2006
Next Scheduled EDR Contact: 08/07/2006
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: 12/05/2005
Date Data Arrived at EDR: 01/19/2006
Date Made Active in Reports: 02/21/2006
Number of Days to Update: 33

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Varies

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: 04/26/2006
Date Data Arrived at EDR: 04/27/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/12/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Semi-Annually

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/14/2004
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 04/25/2005
Number of Days to Update: 69

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/13/2006
Next Scheduled EDR Contact: 07/24/2006
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: 04/13/2006
Date Data Arrived at EDR: 04/28/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 32

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 07/06/2006
Next Scheduled EDR Contact: 10/02/2006
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: 11/04/2005
Date Data Arrived at EDR: 11/28/2005
Date Made Active in Reports: 01/30/2006
Number of Days to Update: 63

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 06/21/2006
Next Scheduled EDR Contact: 09/18/2006
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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/31/2003
Date Data Arrived at EDR: 07/13/2005
Date Made Active in Reports: 08/17/2005
Number of Days to Update: 35

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 06/22/2006
Next Scheduled EDR Contact: 09/18/2006
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: 04/12/2006
Next Scheduled EDR Contact: 07/17/2006
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: 03/29/2006
Date Data Arrived at EDR: 04/26/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 34

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 06/19/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Date of Government Version: 03/31/2006
Date Data Arrived at EDR: 04/26/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 34

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 06/19/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Quarterly

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: 12/31/2004
Date Data Arrived at EDR: 05/11/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 11

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 03/06/2006
Next Scheduled EDR Contact: 07/17/2006
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: 02/13/2006
Date Data Arrived at EDR: 04/21/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 20

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 04/11/2006
Next Scheduled EDR Contact: 07/17/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/27/2005
Date Data Arrived at EDR: 02/08/2006
Date Made Active in Reports: 02/27/2006
Number of Days to Update: 19

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 06/28/2006
Next Scheduled EDR Contact: 08/07/2006
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: 04/12/2006
Date Data Arrived at EDR: 04/26/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 34

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Quarterly

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: 02/09/2006
Date Data Arrived at EDR: 03/29/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 62

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 06/28/2006
Next Scheduled EDR Contact: 09/25/2006
Data Release Frequency: Semi-Annually

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: 04/27/2006
Date Data Arrived at EDR: 05/02/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 28

Source: EPA
Telephone: N/A
Last EDR Contact: 04/03/2006
Next Scheduled EDR Contact: 07/03/2006
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: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
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: 12/31/2003
Date Data Arrived at EDR: 06/17/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 48

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/30/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Biennially

STATE AND LOCAL RECORDS

SHWS: Inventory of Hazardous Disposal Sites

State Hazardous Waste Sites. State hazardous waste site 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. Available information varies by state.

Date of Government Version: 05/19/2006
Date Data Arrived at EDR: 05/19/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: 860-424-3721
Last EDR Contact: 05/19/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Varies

SDADB: Site Discovery and Assessment Database

All sites reported to Permitting, Enforcement, and Remediation Division where it is suspected that hazardous waste may have been disposed or sites that are eligible for listing on the State Inventory of Hazardous Waste Disposal Sites.

Date of Government Version: 05/19/2006
Date Data Arrived at EDR: 05/19/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: 860-424-3721
Last EDR Contact: 05/19/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Semi-Annually

SWF/LF: List of Landfills/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: 04/03/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 19

Source: Department of Environmental Protection
Telephone: 860-424-3366
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Annually

SWRCY: Recycling Facilities

A listing of recycling facilities.

Date of Government Version: 04/03/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 19

Source: Department of Environmental Protection
Telephone: 860-424-3223
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Varies

LUST: Leaking Underground Storage Tank List

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 05/23/2006
Date Data Arrived at EDR: 05/25/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 34

Source: Department of Environmental Protection
Telephone: 860-424-3376
Last EDR Contact: 05/01/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Semi-Annually

LWDS: Connecticut Leachate and Wastewater Discharge Sites

The Leachate and Waste Water Discharge Inventory Data Layer (LWDS) includes point locations digitized from Leachate and Wastewater Discharge Source maps compiled by the Connecticut DEP. These maps locate surface and groundwater discharges that (1) have received a waste water discharge permit from the state or (2) are historic and now defunct waste sites or (3) are locations of accidental spills, leaks, or discharges of a variety of liquid or solid wastes.

Date of Government Version: 09/22/1999
Date Data Arrived at EDR: 11/15/1999
Date Made Active in Reports: 12/09/1999
Number of Days to Update: 24

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 05/08/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Varies

UST: Underground Storage Tank Data

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: 03/01/2006
Date Data Arrived at EDR: 03/31/2006
Date Made Active in Reports: 04/26/2006
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: 860-424-3376
Last EDR Contact: 07/10/2006
Next Scheduled EDR Contact: 09/25/2006
Data Release Frequency: Semi-Annually

AST: Marine Terminals and Tank Information

A listing of bulk petroleum facilities that receive petroleum by a vessel.

Date of Government Version: 10/28/2004
Date Data Arrived at EDR: 10/28/2004
Date Made Active in Reports: 12/09/2004
Number of Days to Update: 42

Source: Department of Environmental Protection
Telephone: 860-424-3233
Last EDR Contact: 06/30/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Varies

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: 12/31/2004
Date Data Arrived at EDR: 02/17/2006
Date Made Active in Reports: 04/07/2006
Number of Days to Update: 49

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 06/14/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Annually

SPILLS: Oil & Chemical Spill Database

Oil and Chemical Spill Data.

Date of Government Version: 05/17/2006
Date Data Arrived at EDR: 05/22/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 37

Source: Department of Environmental Protection
Telephone: 860-424-3024
Last EDR Contact: 05/01/2006
Next Scheduled EDR Contact: 05/01/2006
Data Release Frequency: Semi-Annually

AUL: ELUR Sites

Environmental Land Use Restriction sites.

Date of Government Version: 03/27/2006
Date Data Arrived at EDR: 03/28/2006
Date Made Active in Reports: 05/01/2006
Number of Days to Update: 34

Source: Department of Environmental Protection
Telephone: 860-424-3912
Last EDR Contact: 06/21/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

VCP: Voluntary Remediation Sites
Sites involved in the Voluntary Remediation Program.

Date of Government Version: 05/19/2006
Date Data Arrived at EDR: 05/19/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: 860-424-3705
Last EDR Contact: 05/19/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Varies

DRYCLEANERS: Drycleaner Facilities
A listing of drycleaner facility locations.

Date of Government Version: 01/18/2006
Date Data Arrived at EDR: 02/10/2006
Date Made Active in Reports: 03/14/2006
Number of Days to Update: 32

Source: Department of Environmental Protection
Telephone: 860-424-3026
Last EDR Contact: 07/10/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Varies

BROWNFIELDS: Brownfields Inventory

Date of Government Version: 04/13/2006
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/01/2006
Number of Days to Update: 17

Source: Connecticut Brownfields Redevelopment Authority
Telephone: 860-258-7833
Last EDR Contact: 04/14/2006
Next Scheduled EDR Contact: 07/17/2006
Data Release Frequency: Varies

ENFORCEMENT: Enforcement Case Listing
The types of enforcement actions included are administrative consent orders, final unilateral orders and final dispositions of civil cases through the Attorney General's Office.

Date of Government Version: 04/30/2006
Date Data Arrived at EDR: 06/01/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 27

Source: Department of Environmental Protection
Telephone: 860-424-3265
Last EDR Contact: 05/30/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Varies

CT PROPERTY: Property Transfer Filings
A listing of sites that meet the definition of a hazardous waste establishment. They can be generators, dry cleaners, furniture strippers, etc. These sites have been sold to another owner.

Date of Government Version: 05/19/2006
Date Data Arrived at EDR: 05/19/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: 860-424-3789
Last EDR Contact: 05/19/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Semi-Annually

TRIBAL RECORDS

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: 12/31/2004
Date Data Arrived at EDR: 02/08/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 177

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 05/12/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 19

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/24/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

A listing of underground storage tank locations on Indian Land.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 19

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/24/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Varies

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

EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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.

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 04/24/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 8

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/05/2006
Next Scheduled EDR Contact: 10/02/2006
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: 05/02/2006
Date Data Arrived at EDR: 05/31/2006
Date Made Active in Reports: 06/27/2006
Number of Days to Update: 27

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/31/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 05/04/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 33

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/12/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 09/30/2005
Date Data Arrived at EDR: 05/09/2006
Date Made Active in Reports: 05/24/2006
Number of Days to Update: 15

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 06/19/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 05/17/2006
Number of Days to Update: 61

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 05/15/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 46

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 07/11/2006
Next Scheduled EDR Contact: 10/09/2006
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.

Daycare Centers: Licensed Child Care Facilities
Source: Department of Public Health
Telephone: 860-509-8045

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 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.

State Wetlands Data: Wetland Soils
Source: Department of Environmental Protection
Telephone: 860-871-4047

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

1LT JOHN S. TURNER USARC, CT
180 HIGH STREET
FAIRFIELD, CT 06824

TARGET PROPERTY COORDINATES

Latitude (North):	41.16490 - 41° 9' 53.6''
Longitude (West):	73.2424 - 73° 14' 32.6''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	647454.9
UTM Y (Meters):	4558339.5
Elevation:	89 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	41073-B2 BRIDGEPORT, CT
Most Recent Revision:	1984
West Map:	41073-B3 WESTPORT, CT
Most Recent Revision:	1984

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).

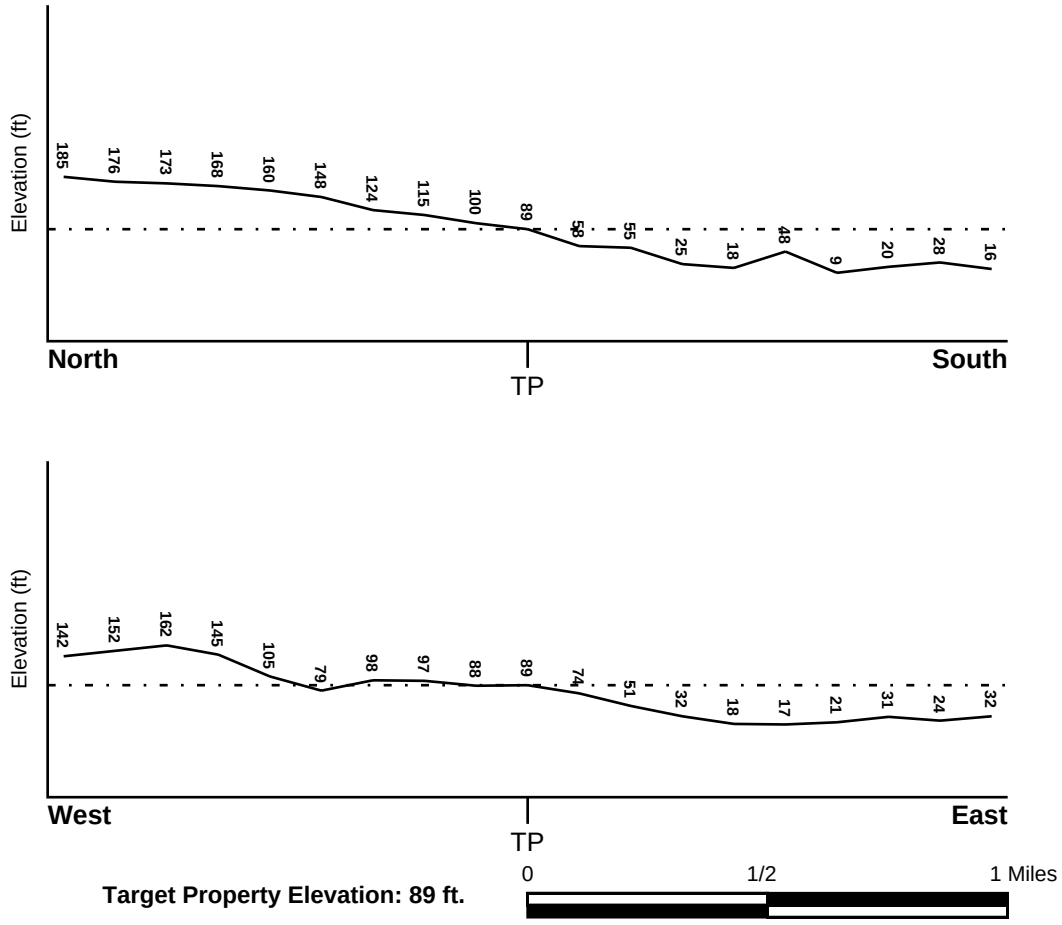
TOPOGRAPHIC INFORMATION

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 SE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 89 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
FAIRFIELD, CT	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 0900070010B

Additional Panels in search area: 0900020005D
0900070007B

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
BRIDGEPORT	Not Available

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.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

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	1/2 - 1 Mile SE	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:	Paleozoic
System:	Ordovian
Series:	Lower Paleozoic granitic rocks
Code:	Pzg1 *(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).

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. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: URBAN LAND

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 10 inches

Depth to Bedrock Max: > 10 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: fine sandy loam
loamy sand
sandy loam
very stony - fine sandy loam
loam

Surficial Soil Types: fine sandy loam
loamy sand
sandy loam
very stony - fine sandy loam
loam

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: sand
fine sandy loam
stratified
gravelly - fine sandy loam
gravelly - loam

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
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

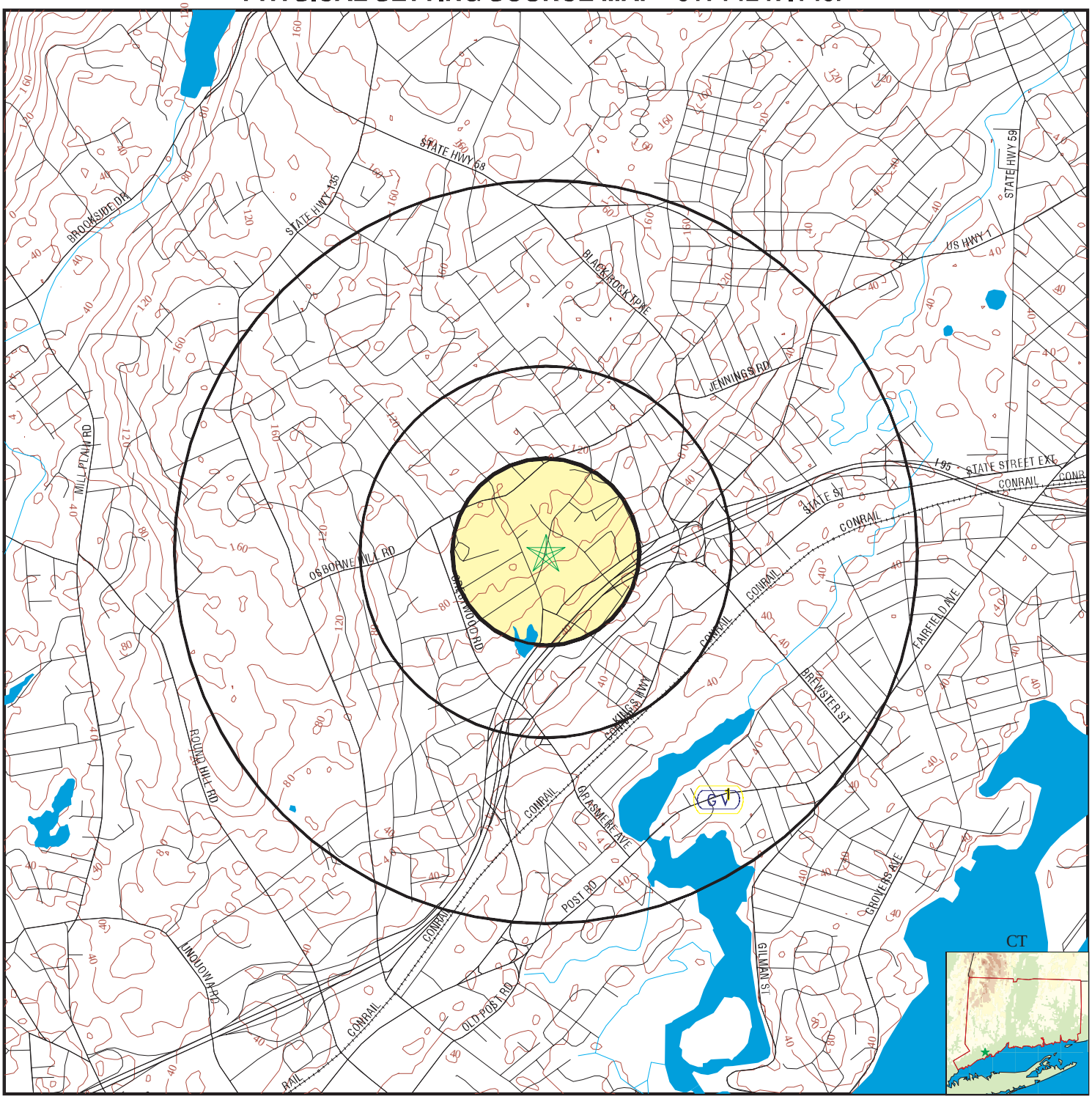
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 01714247.140r



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- EPA Designated Sole Src. Aq.

SITE NAME:	1LT John S. Turner USARC, CT	CLIENT:	CH2M Hill
ADDRESS:	180 HIGH STREET FAIRFIELD CT 06824	CONTACT:	Mary Beth Jacques
LAT/LONG:	41.1649 / 73.2424	INQUIRY #:	01714247.140r
		DATE:	July 12, 2006

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
1 **SE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	Not Reported Varies 7.5 10 Not Reported 1/22/1997	**AQUIFLOW**	**22623**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CT Radon

Radon Test Results

City	Total Sites	< 4 Pci/L	4 < 10 Pci/L	10 < 20 Pci/L	20 < 50 Pci/L	50 < 100 Pci/L	> 100 Pci/L
Bethel	17	14 (82.4)	3 (17.6)	0 (0)	0 (0)	0 (0)	0 (0)
Bridgeport	102	73 (71.6)	24 (23.5)	3 (3)	2 (2)	0 (0)	0 (0)
Brookfield	5	2 (40)	2 (40)	1 (20)	0 (0)	0 (0)	0 (0)
Cos Cob	4	3 (75)	1 (25)	0 (0)	0 (0)	0 (0)	0 (0)
Danbury	15	14 (93.3)	1 (6.7)	0 (0)	0 (0)	0 (0)	0 (0)
Darien	514	457 (88.9)	49 (9.5)	7 (1.4)	1 (2)	0 (0)	0 (0)
Easton	108	80 (74.1)	27 (25)	1 (.9)	0 (0)	0 (0)	0 (0)
Fairfield	39	37 (94.9)	1 (2.55)	1 (2.55)	0 (0)	0 (0)	0 (0)
Greenwich	136	125 (91.9)	7 (5.1)	3(2.2)	1 (.8)	0 (0)	0 (0)
Monroe	135	115 (85.2)	12 (8.9)	5 (3.7)	3 (2.2)	0 (0)	0 (0)
New Canaan	1	1 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
New Fairfield	8	6 (75)	2 (25)	0 (0)	0 (0)	0 (0)	0 (0)
Newtown	21	7 (33.3)	0 (0)	4 (19.1)	7 (33.3)	1 (4.8)	2 (9.5)
Norwalk	27	21 (77.8)	4 (14.8)	1 (3.7)	1 (3.7)	0 (0)	0 (0)
Old Greenwich	3	3 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Redding	7	5 (71.4)	2 (28.6)	0 (0)	0 (0)	0 (0)	0 (0)
Ridgefield	110	97 (0)	10 (0)	3 (0)	0 (0)	0 (0)	0 (0)
Riverside	5	3 (60)	1 (20)	1 (20)	0 (0)	0 (0)	0 (0)
Rowayton	1	1 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Sandy Hook	48	25 (52.1)	15 (31.25)	5 (10.42)	4 (8.30)	0 (0)	0 (0)
Shelton	23	17 (73.9)	5 (21.7)	1 (4.4)	0 (0)	0 (0)	0 (0)
Sherman	2	1 (50)	4.3 (50)	0 (0)	0 (0)	0 (0)	0 (0)
South Norwalk	1	0 (0)	1 (100)	0 (0)	0 (0)	0 (0)	0 (0)
Southport	2	2 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Stamford	112	69 (61.6)	34 (30.4)	6 (5.3)	3 (2.7)	0 (0)	0 (0)
Stratford	129	96 (74.4)	27 (20.9)	3 (2.3)	1 (.7)	0 (0)	2 (2.3)
Trumbull	114	86 (75.4)	20 (17.5)	5 (4.4)	2 (1.8)	0 (0)	1 (.9)
Weston	111	71 (63.9)	31 (27.9)	5 (4.5)	3 (2.7)	1 (.9)	0 (0)
Westport	154	109 (70.8)	29 (18.8)	12 (7.8)	4 (2.6)	0 (0)	0 (0)
Wilton	14	11 (78.6)	3 (21.4)	0 (0)	0 (0)	0 (0)	0 (0)

Federal EPA Radon Zone for FAIRFIELD County: 1

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for FAIRFIELD COUNTY, CT

Number of sites tested: 1859

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	1.270 pCi/L	89%	10%	0%
Basement	2.630 pCi/L	69%	29%	2%

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 1999 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.

State Wetlands Data: Wetland Soils
Source: Department of Environmental Protection
Telephone: 860-871-4047

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

Connecticut Leachate and Wastewater Discharge Sites
Source: Department of Environmental Protection
The Leachate and Waste Water Discharge Inventory Data Layer (LWDS) includes point locations digitized from Leachate and Wastewater Discharge Source maps compiled by the Connecticut DEP. These maps locate surface and groundwater discharges that (1) have received a waste water discharge permit from the state or (2) are historic and now defunct waste sites or (3) are locations of accidental spills, leaks, or discharges of a variety of liquid or solid wastes.

EPA-Approved Sole Source Aquifers in Connecticut
Source: EPA
Sole source aquifers are defined as an aquifer designated 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 the area and for which there are no reasonable alternative sources should the aquifer become contaminated.

Community and Non-Community Water System Wells
Source: Department of Public Health, Water Supplies Section
Telephone: 860-509-7333
Active, emergency and inactive wells used for potable purposes that are owned and operated by active community and non-community water systems in Connecticut.

OTHER STATE DATABASE INFORMATION

RADON

State Database: CT Radon
Source: Department of Public Health
Telephone: 860-509-7367
Radon Statistical Summary

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.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

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

Fax To: CH2M Hill
Contact: Mary Beth Jacques
Fax : 404-229-9152
Date: 07/12/2006

Fax From: Bart Sobieralski
EDR
Phone: 1-800-352-0050

EDR PUR-IQ® Report

"the intelligent way to conduct historical research"

for
1LT John S. Turner USARC, CT
180 HIGH STREET
FAIRFIELD, CT 06824
Lat./Long. 41.16490 / 73.24240
EDR Inquiry # 01714247.140r

The EDR PUR-IQ report facilitates historical research planning required to complete the Phase I ESA process. The report identifies the *likelihood* of prior use coverage by searching proprietary EDR-Prior Use Reports® comprising nationwide information on: city directories, fire insurance maps, aerial photographs, historical topographic maps, flood maps and National Wetland Inventory maps.

Potential for EDR Historical (Prior Use) Coverage - Coverage in the following historical information sources may be used as a guide to develop your historical research strategy:

1. City Directory:	Coverage exists for portions of FAIRFIELD, CT for 1941-1966
2. Fire Insurance Map:	When you order online any EDR Package or the EDR Radius Map with EDR Sanborn Map Search/Print, you receive site specific Sanborn Map coverage information at no charge.
3. Aerial Photograph:	Coverage exists for portions of Fairfield County for 1963, 1979, 1985, 1991, 1992 Shipping time 3-5 business days.
4. Topographic Map:	The USGS 7.5 min. quad topo sheet(s) associated with this site:

Historical: Coverage exists for Fairfield County

Current:	Target Property:	TP | 1984 | 41073-B2 Bridgeport, CT
	Additional required for 1 Mile radius:	W | 1984 | 41073-B3 Westport, CT

EDR's network of professional researchers, located throughout the United States, accesses the most extensive national collections of city directory, fire insurance maps, aerial photographs and historical topographic map resources available for FAIRFIELD, CT. These collections may be located in multiple libraries throughout the country. To ensure maximum coverage, EDR will often assign researchers at these multiple locations on your behalf. Please call or fax your EDR representative to authorize a search.

EDR - HISTORICAL SOURCE(S) ORDER FORM

CH2M Hill
Mary Beth Jacques
Account # 1592163

1LT John S. Turner USARC, CT
180 HIGH STREET
FAIRFIELD, CT 06824
Fairfield County
Lat./Long. 41.16490 / 73.24240
EDR Inquiry # 01714247.140r

Should you wish to change or add to your order, fax this form to your EDR account executive:

Bart Sobieralski
Ph: 1-800-352-0050 Fax: 1-800-231-6802

Reports

___ EDR Sanborn Map® Search/Print

___ EDR Fire Insurance Map Abstract

___ EDR Multi-Tenant Retail Facility® Report

___ EDR City Directory Abstract

___ EDR Aerial Photo Decade Package

___ USGS Aerial 5 Package

___ USGS Aerial 3 Package

___ EDR Historical Topographic Maps

___ Paper Current USGS Topo (7.5 min.)

___ Environmental Lien Search

___ Chain of Title Search

___ NJ MacRaes Industrial Directory Report

___ EDR Telephone Interview

Shipping:

___ Email
___ Express, Next Day Delivery — RUSH SERVICE IS AVAILABLE
___ Express, Second Day Delivery
___ Express, Next day Delivery — Customer Account — Acct # _____
___ Express, Second Day Delivery — Customer Account — Acct # _____
___ U.S. Mail

Thank you

"Linking Technology with Tradition"®

Sanborn® Map Report

Ship To: Mary Beth Jacques
CH2M Hill
1569 Stampmill Way
Lawrenceville, GA 30043

Order Date: 7/12/2006 **Completion Date:** 7/13/2006
Inquiry #: 1714247.141S
P.O. #: NA
Site Name: 1LT John S. Turner USARC CT
Address: 180 HIGH STREET
City/State: FAIRFIELD, CT 06824
Cross Streets:

Customer Project: NA
1592163BAS 770-338-1589

This document reports that the largest and most complete collection of Sanborn fire insurance maps has been reviewed based on client supplied information, and fire insurance maps depicting the target property at the specified address were not identified.

NO COVERAGE

The EDR Aerial Photo Decade Package

1LT John S. Turner USARC, CT
180 HIGH STREET
FAIRFIELD, CT 06824

Inquiry Number: 1714247.143

July 13, 2006

EDR® Environmental Data Resources Inc

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: 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.

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

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

Date EDR Searched Historical Sources:

Aerial Photography July 13, 2006

Target Property:

180 HIGH STREET

FAIRFIELD, CT 06824

Year	***Scale***	***Details***	***Source***
1963	Aerial Photograph. Scale: 1"=750'	Panel #: 2441073-B2/Flight Date: July 06, 1963	EDR
1979	Aerial Photograph. Scale: 1"=833'	Panel #: 2441073-B2/Flight Date: June 20, 1979	EDR
1985	Aerial Photograph. Scale: 1"=750'	Panel #: 2441073-B2/Flight Date: March 26, 1985	EDR
1991	Aerial Photograph. Scale: 1"=833'	Panel #: 2441073-B2/Flight Date: April 12, 1991	EDR


INQUIRY #: 1714247.143
YEAR: 1963
= 750'
N
EDR Environmental Data Resources Inc


INQUIRY #: 1714247.143
YEAR: 1979
= 833'
N

INQUIRY #: 1714247.143

YEAR: 1985

= 750'

N

EDR Environmental Data Resources Inc


INQUIRY #: 1714247.143
YEAR: 1991
= 833'
N

The EDR-City Directory
Abstract

1LT John S. Turner USARC, CT
180 HIGH STREET
FAIRFIELD, CT 06824

Inquiry Number: 1714247.144

Monday, July 24, 2006

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR City Directory Abstract

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening report 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.

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

SUMMARY

- ***City Directories:***

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1986 through 2005. (These years are not necessarily inclusive.) A summary of the information obtained is provided in the text of this report.

Date EDR Searched Historical Sources: July 24, 2006

Target Property:
180 HIGH STREET
FAIRFIELD, CT 06824

Year	Uses	Source
1986	US Army Reserve Training Center	Johnson's City Directory
1990	US Army Reserve Training Center	Johnson's City Directory
2002	1st Security Services	Cole Criss-Cross Directory
2005	1st Security Services	Cole Criss-Cross Directory
	Turner Army Reserve Center	Cole Criss-Cross Directory
	US Dept of the Air Force	Cole Criss-Cross Directory

Adjoining Properties

SURROUNDING

Multiple Addresses
FAIRFIELD, CT 06824

Year	Uses	Source
1986	****High Street****	Johnson's City Directory
	Residence (192)	Johnson's City Directory
	Residence (194)	Johnson's City Directory
	Residence (204)	Johnson's City Directory
	No other addresses in 0-204 range	Johnson's City Directory
1990	****High Street****	Johnson's City Directory
	Residence (192)	Johnson's City Directory
	Residence (194)	Johnson's City Directory
	Residence (204)	Johnson's City Directory
	No other addresses in 0-204 range	Johnson's City Directory

Year	***Uses***	***Source***
2002	****High Street****	Cole Criss-Cross Directory
	Residence (127)	Cole Criss-Cross Directory
	Residence (166)	Cole Criss-Cross Directory
	Residence (192)	Cole Criss-Cross Directory
	Residence (194)	Cole Criss-Cross Directory
	Residence (204)	Cole Criss-Cross Directory
2005	****High Street****	Cole Criss-Cross Directory
	Residence (127)	Cole Criss-Cross Directory
	Residence (166)	Cole Criss-Cross Directory
	Residence (192)	Cole Criss-Cross Directory
	Residence (194)	Cole Criss-Cross Directory
	Residence (204)	Cole Criss-Cross Directory

Fax

[redacted]

To: Leslie Shannon **From:** Omar Tyson-CT-DEP

Fax: 334-277-5763 **Pages:** (4 incl cover sheet)

Phone: **Date:** 3/14/2007

Re: 164 Birchwood / Fairfield, CT **CC:**

Urgent x **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

Hello Leslie,

Per our telephone conversation, attached please find the LUST and Spills reports associated with the property at 164 Birchwood Street in Fairfield, CT.

Hopefully this information proves useful to you/your client. Please feel free to contact me directly at **860-424-3116** if you have any other questions or concerns.

Good Luck!

Truly yours

Omar Tyson
CT-DEP-USTEP
Sanitary Engineer I
860-424-4061-fax

Lust Lookup

30395 Entry:
Active: ☐

Status:
○ Pending ◉ Investigation ○ Cleanup Initiated ○ Completed

Incident Date: 6/1/1994
Site Name1: SCHON PROPERTY
Site Name2:
Site Address1: 164 BIRCHWOOD RD.
Site Address2:
Site Town, Zip: 51 Fairfield CT
Comments:

LUST Staff:
Investigator: 24
DEP Contact:
Ref Source:
Date Referred:
Zip Code: 06430-

Referred To:

Flags

☐ **Emergency** ☐ OCSRD Complete ☐ Alt Water Supply
☑ **Private HF**
☐ **Commercial HF**
☐ Comm HF LE 2100 Ga
☐ Comm HF GR 2100 Ga
☐ Comm HF Unknown Amt.
☐ **Leak**
☐ Tank
☐ Removal
☐ Piping
☐ Overfill
☐ **Motor Fuel** ☐ Other Release >
☐ Diesel ☐ Spill $ Candidate ☐ Relocation
☐ Gasoline
☐ Lust Follow Up Follow Up Date:

	Contractor	Consultant
Site Contact:		
Contact Address1:		
Contact Address2:		
Contact Town St.:	0	0
Contact Zip:		
Contact Phone:		
Contact Fax:		
Contact Type:		

Work Done: ☐ Site Inspection

☐ Cellar Borings ☐ Soil Gas ☐ Survey
☐ Install MWs ☐ Soil Venting ☐ Potable Well Sample
☐ GW Sample ☐ Soil Excavate ☐ Sample MWs
☐ Soil Sample ☐ Geo Probe ☐ GW Gauging

☐ Responsible Party
RP Name1:
RP Name2:
RP Address1:
RP Address2:
RP Town, St: 0
RP ZipNo:
RP Phone:
RP Phone2:
RP Fax:

Links

USTE Facility ID:
Owner ID:
SITS Spillcase No:
Old SITS Spillcase No:
Cost Recovery Spillcase No:
UST Comm Site No:
Case Log Log ID:
Monthly Rpt Monthly Rpt ID: 0000-00000

Ground Water

GW Classification:
Sampling/Gauging Frequency:
GW Flow Direction:
GW Depth:
GW Gradient:
Depth of Free Product:
No. of Wells:
Wells Containing LPH:
Comments:

Action

Action	Date	Medium: DEP?
		☐

NOV

NOV Discovery Date:	Discovery	☐ Stop All NOV Actions
NOV Issued:	+90	
NOV Compliance Sched:	+120 (30)	
Admin Order:	+180	
Referred To AG:	+210	

Release

Substance	Source	Quantity	Unit
Heating Oil	Residential Heati	550	Gallons

☐ Release Investigation Rpt
☐ DEP Approval Letter1
☐ Corrective Action Plan
☐ DEP Approval Letter2
☐ Remedial System Install Install Date:
☐ Remedial Sys Monitor Rpt
NOV Comments:

☐ Qrtly GWater Monitor Rpts
☐ Closure Request Report
☐ DEP Closure Letter
Closure Date:

Location:
Release:
Work done:
Follow up:

Lust Lookup

30395 Entry:
Active: ☐

Status:
○ Pending ● Investigation ☐ Cleanup Initiated ○ Completed

SITS Old Data Report Spillcase: 0094-03637

1994

Representing: **UNITED INDUSTRIAL SERVICES**
Location: **164 BIRCHWOOD DRIVE**
Reported By: **ANDY VANETTEN**

Release Town: FAIRFIELD

RP Town: FAIRFIELD
RP Zip:
Rel. Substance: #2 FUEL OIL

Assigned To: EMANUELSON
Date Reported: 7/6/1994
Date of Release: 7/6/1994
Terminated?: Y

Gallons, Yards:
Waterbody: BROOK

Action:

Information: 550 LUST NEAR STREAM/BROOK

Comments:

W