FINAL

ENVIRONMENTAL CONDITION OF PROPERTY REPORT

SGT GEORGE D. LIBBY
U.S. ARMY RESERVE CENTER (CT007)
200 WINTERGREEN AVENUE
NEW HAVEN, CT 06515

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

MARCH 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.

03/08/07

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 SGT George D. Libby U.S. Army Reserve (USAR) Center (Facility ID CT007), hereafter referred to as the Property or USAR Center. The Property is located at 200 Wintergreen Avenue, New Haven, New Haven County, Connecticut 06515, and encompasses approximately 5.75 acres.

This ECP report was conducted in conformance with the Department of Defense's (DoD's) Base Redevelopment and Realignment Manual, DoD 4165.77-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.

The USAR Center is on approximately 5.75 acres of land with two permanent structures, a hazardous material metal shed, a vehicle wash rack, and three parking lots. The USAR units currently occupying the Property are the 395th Quarter Master Battalion Supply and Service (S&S), 439th and 344th Military Police (MP) Company, and 3423th and 3414th Military Intelligence Detachments.

Based on a review of aerial photographs and U.S. Geological Survey topographical maps dating back to 1940, the Property was open farmland before 1954. Both the 28,100-square-foot main building and 6,700-square-foot Organizational Maintenance Shop (OMS) building were constructed in 1954.

Areas of potential environmental concern were reviewed, and CH2M HILL found issues with the oil/water separator (OWS) in the OMS building and discrepancies in the record concerning one 12,000-gallon underground storage tank (UST) 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
bgs	below ground surface
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
CORRACT	Resource Conservation and Recovery Act corrective action site
CTDEP	Connecticut Department of Environmental Protection
DoD	Department of Defense
DOT	Department of Transportation
DRMO	Defense Reutilization and Marketing Office
DTC	Diversified Technology Consultants
ECP	Environmental Condition of Property
EDR	Environmental Data Resources, Inc.
ERNS	Emergency Response Notification System
FEMA	Federal Emergency Management Agency
kg	kilogram
kVA	kilovolt-amp
LBP	lead-based paint

LUST	leaking underground storage tank
LWDS	Leachate and Wastewater Discharge Database
MEC	munitions and explosives of concern
MEP	military equipment parking
MP	Military Police
msl	mean sea level
NPL	National Priorities List
NRHP	National Register of Historic Places
OF	outfall
OLISP	Office of Long Island Sound Programs
OMS	organizational maintenance shop
OWS	oil/water separator
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
S&S	Supply and Service
SCSU	Southern Connecticut State University
STATSGO	State Soil Geographic Database
TSD	treatment, storage, and/or disposal
USACE	United States Army Corps of Engineers
USAR	United States Army Reserve
USC	United States Code
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 SGT George D. Libby U.S. Army Reserve (USAR) Center (CT007). The facility is located at 200 Wintergreen Avenue, New Haven, New Haven County, Connecticut 06515, 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 23, 2006, in support of the ECP. The reconnaissance purpose 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 5.13-acre USAR Center located at 200 Wintergreen Avenue, New Haven, Connecticut. West Rock Ridge State Park bounds the Property to the south and west, while Southern Connecticut State University (SCSU) bounds the Property to the east. Wintergreen Avenue lies to the north. All site maps, figures, and aerial photographs referenced herein are provided in Appendix A, while Appendix B contains the photographs taken during the August 23, 2006, site reconnaissance. Appendix C contains the Property warranty deeds and chain of title information, and lease or permit agreements if available. 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 irregularly shaped, 5.75-acre USAR Center is located in northwestern New Haven, Connecticut, at 200 Wintergreen Avenue, which is a city access road. The Property is bordered to the west and south by West Rock Ridge State Park, to the east by SCSU, and to the north by Wintergreen Avenue. A small generating plant owned by SCSU is located north of the Property across Wintergreen Avenue.

2.2 Asset Information

Facility Name and Address:	SGT George D. Libby U.S. Army Reserve Center 200 Wintergreen Avenue New Haven, Connecticut
Property Owner:	U.S. Government
Date of Ownership:	July 13 1952
Current Occupants:	395th Quarter Master Battalion Supply and Service (S&S), 439th and 344th Military Police (MP) Company, and 3423th and 3414th Military Intelligence Detachments
Zoning:	RM-1, Residential and Light Manufacturing
County, State:	New Haven, Connecticut
USGS Quadrangle(s):	New Haven, Connecticut
Latitude/Longitude:	41°20′11.0″N; 72°57′18.0″W
Legal Description:	A copy of the deed of transfer, which includes an accurate legal description of the Property, is included in Appendix C.

2.3 Physical Description

The USAR Center is located on a 5.75-acre parcel in northwestern New Haven and contains two permanent structures, a hazardous material metal shed, a vehicle wash rack, and three parking lots (Figure 2, Appendix A). The 28,100-square-foot main building and 6,700-square-foot Organizational Maintenance Shop (OMS) building were constructed in 1954. Both structures were first observed in the 1954 New Haven Quadrangle U.S. Geological Survey (USGS) topographic map of the area (Figure 5, Appendix A).

The irregularly shaped main building consists of a two-level, east-west oriented, administrative and classroom block; a one-level, north-south oriented administrative and classroom block; and a two-story drill hall. A narrow hallway connects the two administrative and classroom blocks. The drill hall is connected to the east-west oriented administrative and classroom block on the south side by a wide hallway. The building's interior consists of office space, classrooms, a kitchen area, storage, former indoor firing range, and arms vault (Figure 3, Appendix A). The south wall of the drill hall contains a roll-type garage door for vehicle access and a personnel door. The entire first floor of the main building is used as classrooms and offices, while the basement is used for storage, office space, and a mechanical room.

The OMS building, located approximately 50 feet southeast of the main building is a one-level, steel-framed concrete block building with external brick finishing on concrete foundations. There are five roll-type garage doors on the north side of the building; each of the garage doors opens to a bay (Photograph 8, Appendix B). Activity inside the OMS building includes light vehicle maintenance such as oil changes, tire service, and light bulb changing (Figure 4, Appendix A); major repair works are sent to an Area Maintenance Support Activity (AMSA) shop located in Milford, Connecticut (AMSA 69). One personnel door also is located on the east wall of the building.

The wash rack area is located against the west wall of the OMS building. It consists of a concrete pad sloping inward from all sides toward the middle (Photograph 4, Appendix B). At the middle of the pad is a floor drain. The drain is connected to a two-chamber oil/water separator (OWS) located of the wash rack. The OWS is connected to the City of New Haven sanitary sewer.

The military equipment parking (MEP) area is divided into upper and lower levels, in addition to two privately owned vehicle (POV) parking areas contained within the Property. Chain-link security fencing topped with barbed wire encloses the Property. Chain-link security fence further separates the MEP area from the rest of the Property.

Impervious surface features such as asphalt parking areas, driveways, concrete walkways, and building footprints cover almost the entire Property. There is only a small patch of well-kept lawn. A small narrow strip of wooded area also exists along the west and south sides of the Property.

2.4 Site Hydrology and Geology

The USAR Center and New Haven are located within the Connecticut Valley Lowland region of the New England physiographic province. The area also is included within the Western Coastal Ecoregion, consisting primarily of metamorphic gneisses and schists in the northern section and Triassic sedimentary and igneous rocks in the southern sections (Connecticut Project Facilities, Date Unknown). The area is characterized by maturely dissected area with low hills and ridges rising above open valleys entirely within the lowland areas.

2.4.1 Surface Water Characteristics

Figure 5 in Appendix A provides a portion of the 1954 New Haven, Connecticut, USGS topographic map, which includes the Property. As shown, the Property is situated at an elevation of approximately 50 feet above mean sea level (msl), is relatively flat, and is situated in a valley between two ridges. A 400-foot above msl ridge within West Rock Ridge State Park is southwest of the Property, while a hill reaching 200 feet above msl lies to the north. Areas to the east and west are relatively flat. The closest surface water feature to the Property is the perennial Wintergreen Brook, which is located approximately 150 feet south in West Rock Ridge State Park.

There are two outfalls (OF1 and OF2) through which stormwater leaves the Property (USGS, 2001). OF1 collects stormwater from drains located in the upper, lower level MEP parking area and the POV1 in front of the OMS building, and discharges it to a riprap swale located at the southeast corner of the Property. Water collected in the swale either infiltrates into the ground from here or overflows to Wintergreen Brook during times of heavy rainfall. OF2 is located west of POV2. It collects stormwater from drains located in POV2 and discharges it to the narrow strip of wooded area to the west of the Property. The stormwater infiltrates into the ground from here. During times of heavy rainfall, the runoff enters Wintergreen Brook.

2.4.2 Hydrogeological Characteristics

According to information acquired from the Soil Conservation Service's State Soil Geographic Database (STATSGO) and EDR data search for New Haven County, the specific type of soil at the Property is from the Cheshire Series. The Cheshire Series is listed as non-hydric soils. This soil series is described as having moderate infiltration rates and is moderately deep and moderately drained. Depth to water table in these soils generally occurs at more than 6 feet.

Undisturbed surface soils are generally fine sandy loams composed of coarse-grained sands, sand with fines, and silty sand. Soil profiles in the area are generally well defined with the surface layer extending from the surface to 8 inches. The subsoil extends from the surface 8 to 26 inches, and the lower horizon extends from 26 to 65 inches. Bedrock is encountered at depths greater than 60 inches.

2.5 Site Utilities

Water Service—The City of New Haven provides potable water service to the Property.

Sanitary Sewer System—The City of New Haven 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, OWS, etc.).

Gas and Electric—New England Gas Company provides natural gas service to the Property, while a regional electric company provides electricity 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. Potable water is supplied by the City of New Haven.

A search of federal and state water well databases identified no water supply source located within 1 mile of the Property. There are, however, two sets of USGS cluster wells located within 1 mile east-northeast and south of the Property. These wells are not used for public water supply.

3 Site History

3.1 History of Ownership

Review of available historical records, chain of titles for the Property, and deed of transfer dated May 12, 1952 (Appendix C) indicated that the U.S. Government purchased the 5.75 acres of land from Executor of the Estate of Birdsey A. Farnham, Annever M Farnham, and Seleta F. Stephan in May 1952. The chain of title records indicated that on January 13, 1936, Myrlon A. Farnham and Birdsey Farnham (executors of the estate of Arthur Farnham) by Executor's Deed transferred the Property to Jennie B. Farnham (widow of Arthur), Seletta Stephens, Anneve M. Farnham. On that same date, the three transferred the Property by Quit to Claim Deed to Myrlon A. Farnham, Birdsey A. Farnham, Anneva M. Farnham and Seletta F. Stephens. The chain of title also indicated that as of March 2, 2007, there was no environmental lien against the Property. 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 24, 2006, the address of the USAR Center was first listed in the research source (Johnson's City Directory) in 2002. Historical documentation (PAL, 1995; CT Project Facilities, date unknown) supports the 1954 construction date of the USAR Center. A copy of the city directory is included in Appendix E.

3.2 Past Uses and Operations

In 1952, the U.S. Government purchased the 5.75 acres of land, and constructed the main building and the OMS building of the USAR Center. The 1940 aerial photograph (Figure 10, Appendix A) did not show the buildings on the Property. Both the main building and the OMS building were first seen on the 1954 topographic map of the area (Figure 5, Appendix A). According to site personnel, the Property has served as a reserve and mobilization center for USAR since the U.S. Government acquired the land.
The Property primarily functioned as an administrative, logistical, and educational facility, with limited maintenance of military vehicles occurring in the OMS building (PAL, 1995). The Property was historically used by reservists for drill activities on various weekends throughout the year. According to site personnel, different units of USAR have occupied the Property at different times. The units currently occupying the Property are the 395th Quarter Master Battalion S&S, 439th and 344th MP Company, and 3423th and 3414th Military Intelligence Detachments. 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 AMSA shop located in Milford, Connecticut (AMSA 69). Equipment requiring major overhaul also was sent offsite.

At the time of the site reconnaissance, one military vehicle was seen in the OMS building. Vehicle mechanic tools (20-ton hydraulic floor jack, tool set cabinet, portable motor oil dispensing units, drip pans, etc.) also were seen on the floors of four of the five bays. The other bay of the OMS building (Photograph 1, Appendix B) contained storage cages for unit supplies and automotive parts for vehicle repairs. In addition to the one military vehicle that was inside the OMS building, several military vehicles were seen parked in the upper and lower level MEP parking lots.

The southwest corner of Bay 5 in the OMS building is designated "Hazardous Waste Accumulation Area, Satellite Point" (Photograph 2, Appendix B). Site interviews confirmed that this area is where automotive fluids (motor oil, antifreeze, etc.) are temporarily stored before being moved to the hazardous waste metal shed located within the upper level MEP parking lot.

While no records or information were available about the use of the wash rack, it is assumed vehicles were historically washed at the Property.

Historical aerial photographs and topographic maps were the primary source of information on the past use and operations at the Property. Figures 5 and 7 through 14 in Appendix A provide USGS topographical maps from 1954, 1967, 1972, and 1984 and aerial views of the Property and surrounding areas in 1940, 1963, 1975, 1980, and 1991.

The Property location and the immediate area look like open farmland in the 1940 aerial photograph (Figure 10, Appendix A). The 1954 topographic map (Figure 5, Appendix A) shows both the main building and OMS building. Also seen on this photo is residential development to the south-southeast of the Property, while areas to the north and west remain to a large extent open land. The 1963 aerial photograph (Figure 11, Appendix A) in addition to the Property also shows what looks like the present-day Congregation B'nai Jacobs Cemetery located about 0.25 mile west of the Property along Wintergreen Avenue.

Signs of development east of the Property are first seen in the 1967 topographic map (Figure 7, Appendix A) with two structures that look like part of present-day SCSU seen to the east of the Property. More development is seen to the east and southeast of the Property in the 1972 topographic map (Figure 8, Appendix A) and 1975 aerial photograph (Figure 12, Appendix A). The 1975 aerial photograph shows for the first time what looks like buildings to the north of the Property on the other side of Wintergreen Avenue. The 1991 aerial photograph (Figure 14, Appendix A) shows the USAR Center buildings and several SCSU structures to the east and north of the Property as it appears today.

The site reconnaissance indicates the area has not changed much since the 1991 aerial photograph was flown. No stained or distressed areas were 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

Site records related to the past use and storage of hazardous substances at the Property were not available for this report. A search of federal and state environmental databases indicates

the USAR Center is not a Resource Conservation and Recovery Act (RCRA)-registered small or large quantity generator. The August 2006 site reconnaissance and interviews with site personnel indicate past use and storage of hazardous substance on the Property.

Substances that were used and stored onsite during the site reconnaissance include used and virgin automotive fluid (motor oil, antifreeze, penetrating oil, gasoline, diesel, graphite grease, etc.), chemicals associated with facility maintenance activities (paint, heating oil, etc.), and janitorial services supplies. Janitorial chemicals and building maintenance-related products were stored in the designated storage area within the janitorial closet located in the main building and flammable material cabinets in the OMS building. Other potentially hazardous materials and petroleum, oil, and lubricant (POL) products would have been stored in the outdoor hazardous material storage shed located within the MEP parking area (Photograph 6, Appendix B). At the time of the August 2006 site reconnaissance, the shed contained drums of used automotive fluid and empty containers of petroleum product (Photograph 6, Appendix B).

Certain types of chemical products used and stored at the Property would have contained hazardous substances pursuant to CERCLA §101(14) U.S. Code (USC) 9601 (14) and would have been stored on a rotational basis in amounts necessary to support the unit through direct support-level maintenance. There is no indication that these hazardous substances were stored at the Property for 1 year or more in excess of corresponding reportable quantities. Disposal of used or regulated material that is no longer needed is performed through the Defense Reutilization and Marketing Office (DRMO).

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 a review of the EDR report (2006), search of federal and state environmental databases, and interviews with USAR personnel. According to USAR personnel, onsite disposal of hazardous materials or wastes has not occurred at the Property. Disposal of used or no longer needed regulated material is performed through DRMO.

No stained soil or stressed vegetation was observed during the August 2006 site reconnaissance. Additionally, the MEP area and POV parking area did not show any signs of staining, and no noxious or foul odors were noted during the site reconnaissance.

3.4 Past Presence of Bulk Petroleum Storage Tanks

Based on a search of federal and state environmental databases, interviews with USAR personnel, and available site records (Clean Harbor 1990), one heating oil underground storage tank (UST) (12,000-gallon capacity) was removed and replaced in 1990. One 1,000-gallon waste oil UST previously located at this facility has been permanently closed. There is conflicting information about a 12,000-gallon heating oil UST that was reported onsite. While site personnel claim the tank has been removed, the EDR report indicates the tank is currently in use.

3.5 Review of Previous Environmental Reports

Several site records were available for review for this report. Only reports with pertinent environmental information are summarized below. Copies of all records reviewed are included in Appendix D.

3.5.1 UST Closure Report

In 1990, Clean Harbor Environmental Engineering Corporation (Clean Harbor, 1990) documented the replacement of one 12,000-gallon heating oil UST. The report indicated that one 12,000-gallon heating oil UST was removed in October 1990, and installation of another 12,000-gallon UST occurred in the same location. The report indicated that no detectable levels of contamination in soil samples collected during the tank removal and replacement were found.

In 1993, Atec Environmental Consultants (Atec, 1993) detailed the removal of a 1,000-gallon waste oil UST from the Property. The report indicated no visible contamination was encountered during the tank removal. The report also presented the required notification of tank removal filed with the Connecticut Department of Environmental Protection (CTDEP).

3.5.2 1998 Oil/Water Separator Evaluation Report

In 1998, Diversified Technology Consultants (DTC) conducted an inspection of the wash rack, associated catch basin, and the OWS (DTC, 1998). The objective of the inspection was to ascertain the condition of the wash rack and OWS. An inspection report dated October 15, 1998 (DTC, 1998) indicated several cracks in the concrete wash rack and catch basin. The report further indicated that inspection of the OWS revealed no severe cracking, deformation, or deterioration of the system was evident. The report concluded that "Overall, the wash pad catch basin and the O/W Separator were observed to be functional and in satisfactory condition. However, the efficiency of the system is questioned due to the presence of oil staining observed on the sewer floor" (the OWS discharges to the sanitary sewer).

3.5.3 Floor and Storm Drain Inventory and Natural Resources Inventory

A report entitled *Floor and Storm Drains Inventory and Natural Resources Inventory* was prepared for the 94th Regional Readiness Command (RRC; ENSR, 1996) in an effort to inventory and manage natural resources found at 94th RRC facilities in Connecticut. The report noted that the Libby USAR Center did not contain any key rare species, or any endangered or threatened plants and animals, but states that the Property is in close proximity to West Rock Ridge State Park. West Rock Ridge State Park does have Connecticut state endangered and threatened species. Appendix D contains a copy of the *Floor and Storm Drains Inventory and Natural Resources Inventory.* The report also identified seven floor drains, all of which were still in use. Five storm drains, a wash rack, and an OWS also were identified. The report also noted that there were no wetlands on the Property.

3.5.4 Soil Investigation Report

In 2001, DTC conducted soil investigations on the Property to determine whether or not soil within the Property boundaries has been impacted by historic use of the USAR Center (DTC, 2001). During the investigation, soil samples were collected at different parts of the Property where past activities might have impacted the soil. Samples were collected from various depths ranging from surface to water table (ranging from 1.5 feet below ground surface [bgs] to approximately 33 feet bgs). Twelve samples were collected from 12 different locations. Samples were analyzed for volatile organic compounds, semivolatile organic compounds, extractable total petroleum hydrocarbons, and RCRA metals. Based on the results of the investigation, DTC concluded that no evidence of soil impact was detected and recommended that further assessment was not warranted at the time.

3.5.5 Army Memorandums (1995 – 2001)

During sampling activities for the 2001 soil investigation described above, onsite personnel opened the OWS on May 18, 2001. It was observed and documented that approximately 40 to 50 gallons of free petroleum product were in the OWS, and it was believed to be diesel fuel. An Army memorandum (Petroleum Release at New Haven, May 21, 2001) indicated that a significant quantity of petroleum product was observed in the OWS and documented efforts that were underway to recover the product. Another Army memorandum (OWS Fuel Spill, May 22, 2001) documented how the petroleum product was removed from the OWS and that efforts to determine how it was placed in the OWS were unsuccessful. No records or memorandums were found indicating that the soil surrounding the OWS was sampled after the free product had been removed.

A third memorandum (Army, January 18, 1995) indicated that there were many spills observed in the dirt parking area and in the dirt roadway. The memorandum recommended that the spills be dug up. No record of any soil removal was located for this ECP report.

3.5.6 Range Cleanup Report

IT Corporation conducted cleanup of the indoor firing range and documented the cleanup activities in a report entitled *Range Cleanup – CT007, 94th RSC SGT George D. Libby US Army Reserve Center, New Haven Connecticut* (IT Corp., 2004). The report stated that material associated with the range was removed, and clearance wipe samples document that residual lead levels in the range concrete based on post-floor sealing sampling are below the 94th RRC's goal of 40 micrograms per square foot. IT Corporation further certifies that the range cleaning activities have successfully attained the project clearance objectives, and the range is approved for reoccupancy.

3.5.7 Executive Summary Final Asbestos Survey Report

Covino Environmental Consultant of Woburn, acting on behalf of ABB Environmental Services Inc. of Wakefield, Massachusetts, conducted a survey in late 1994 and prepared a report of asbestos-containing material (ACM) occurrence in the buildings on the Property (ABB-ES, 1994). Only the Executive Summary section of this report was available for the draft final ECP report. The report stated that non-friable ACM was identified in the floor tiles and beige exterior window caulking. The report concluded that the identified ACM presents a limited potential hazard and recommend no remedial action.

3.5.8 Historical Resources Report

In 1995, the 94th RRC commissioned PAL to conduct a survey and prepare a report of the historical and archaeological resources of the Property. 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 use information, setting and landscape, cultural resources, security, architectural information, and structure descriptions of the Property were included in the report.

According to the report, the facility is built on a 5.57-acre parcel purchased from an unknown party on July 13, 1954 (this, however, conflicts with the date on the deed of transfer; Appendix C), and the buildings are listed as completed the same year. The report also indicated that no structural modifications, except for the roof and exterior surface finishing, have been made to the buildings.

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

Mixed land uses surround the Property. Land use south and west of the USAR Center is the West Rock Ridge State Park and is designated "PARK" by the New Haven Zoning and Development Office. An area contiguous with the western end of the Property along Wintergreen Avenue is designated "CEM" (cemetery). This is the area of the Congregation B'nai Jacob Cemetery.

An active landfill is located on a hill to the northeast of the Property. The Hamden Landfill, located 0.2 mile from the Property, is described in more detail in Section 4.2.

The area to the east of the Property is made up of single-family and multi-family residential houses, schools, and commercial retail stores. This area is designated RM-1, Residential and Light Manufacturing.

4.2 Findings

The EDR database search results were reviewed for any evidence that adjacent properties may have past or present environmental issues that would impact the USAR Center.

Three sites located within 1 mile of the Property were listed in the EDR report as being in the State of Connecticut Leachate and Wastewater Discharge Database (LWDS). These sites are Hamden Landfill located approximately 1,622 feet northeast of the Property; Mite Corp. Cooling Water Surface located approximately 3,979 feet south of the Property; and Connecticut Department of Transportation (DOT) located approximately 5,244 feet west-northwest of the Property.

Hamden Landfill, which is located about 0.2 mile northeast of the Property, is listed as an active landfill, and it is located on the hill to the northeast of the Property. The location is of relatively higher elevation than the elevation at the Property. The Property is in the path of both surface and groundwater flow from the site, but the landfill is not listed in any EDR databases that would indicate it has had a release.

Mite Corp. Cooling Water Surface is located at a lower relative elevation to the Property. Any release from this site does not have the potential of reaching the Property and thus will not impact the environment on the Property.

Connecticut DOT is listed as inactive, and it is located on the sloping side of the ridge to the west of the Property. Although the elevation is higher relative to the Property, the landfill is on the side of the ridge that slopes away from the Property, thus surface and groundwater from this site have no potential of reaching the Property. Any release from this site will not impact the Property.

Water well databases at the federal and state level were reviewed to identify any water supply source near the Property. No water supply source is located within approximately 1 mile of the Property. There are two USGS wells located within 1 mile northeast and south of the Property. These wells are not used for public water supply.

Land use at adjacent properties appears to have changed significantly over the years, based on a review of available aerial photographs. The Property and surrounding areas were open agricultural fields in the 1940 aerial photograph (Figure 10, Appendix A). Development in the area began around 1950 with the appearance of what looks like the present-day USAR Center in the 1954 topographic map of the area (Figure 5, Appendix A). The 1991 aerial photograph (Figure 14, Appendix A) shows the area fully developed with SCSU to the north and east of the Property. Based on a 1991 aerial photograph and the site survey, no changes from the 1991 aerial were noted.

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 report was obtained from EDR on July 12, 2006. EDR provided a regulatory database summary that consolidates standard federal, state, local, and tribal environmental record sources based on ASTM-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 Property.

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 the Act. 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 Property.

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

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, and there are no such sites within 1 mile of the Property.

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. No RCRA violations are associated with the USAR Center. No site within 0.25 mile of the Property is on this list.

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 the CTDEP Web site (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, Leachate, and Wastewater Discharge Sites within 1 Mile

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

Three adjacent properties within 1 mile of the USAR Center were listed in the LWDS. The EDR report is included in Appendix D, and additional information about these sites is contained in that report.

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.

Hamden Landfill is located approximately 0.2 mile northeast of the Property. The effects of any potential offsite migration from this site onto the Property have not been evaluated. Since it is registered with the state, however, it is subject to solid waste regulations, which cover methods to monitor for any offsite migration.

5.2.3 State-Registered Leaking UST Sites within 0.5 Mile

In addition to information obtained from the EDR report, the CTDEP Underground Storage Tanks Program maintains a comprehensive database of leaking underground storage tank (LUST) sites.

The USAR Center is not listed in the state LUST database. No adjacent properties within 0.5 mile of the USAR Center are on this list.

5.2.4 State-Registered UST Sites within 0.5 Mile

A review of the EDR report and the state of Connecticut UST database identified the USAR Center as a UST site. The EDR report (2006) listed one 12,000-gallon and one 1,000-gallon heating oil UST as permanently closed, and another 12,000-gallon UST as in use. During the August 23, 2006, site reconnaissance survey, site personnel claimed all USTs have been removed from the Property. No closure report is available for any of the USTs.

No adjacent site within 0.5 mile is listed on the UST site list.

5.2.5 State Spills Incidents

The USAR Center is not listed on the Connecticut state petroleum spill list.

5.2.6 Records of Contaminated Public Wells

The City of New Haven Water and Sewer Authority 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.

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 were 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, Getty Service Station, is located within the corresponding ASTM search radius distance. Getty Service Station, which is located approximately 2,428 feet south-southwest of the Property, is a listed LUST site. This site is located at a lower elevation relative to the Property, and thus, offsite migration from this site does not have the potential of impacting the Property.

5.4 Summary of Properties Evaluated to Determine Risk to the Property

To summarize Sections 5.1 through 5.3, four separate properties, near or adjacent to the USAR Center, were evaluated as potential risk properties to the USAR Center. 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 1.

Hamden Landfill, which is located approximately 0.2 mile northeast of the Property, is a registered landfill facility with the State of Connecticut. This site is located upgradient relative to the Property, and any offsite migration from this site has the potential of impacting the environment at the Property.

TABLE 1
Properties Evaluated for Potential Environmental Risks
SGT George D Libby USAR Center, New Haven, Connecticut

Company/Site	Databases Reviewed	Elevation Relative to Property?	Potential Impact on the Property?	Comments
Hamden Landfill	LWDS	Higher	Yes	This site is located upgradient of the Property and is listed as active.
Connecticut DOT Landfill	LWDS	Lower	No	This site is at a location where groundwater will not move toward the Property; the site is also is listed as inactive.
Mite Corp. Cooling Water Surface	LWDS	Lower	No	This site is listed as being downgradient of the Property.
Getty Service Station	LUST	Lower	No	There is no release associated with this site; it is located at a lower elevation relative to the Property.

LUST—leaking underground storage tank
LWDS—leachate and wastewater discharge database

6 Site Investigation and Review of Hazards

Findings documented in the following subsections are based on the August 23, 2006, site reconnaissance, a review of available site records, and information obtained from USAR personnel.

6.1 USTs/Aboveground Storage Tanks

Site records (Clear Harbor, 1990) indicates that one heating oil UST (12,000-gallon capacity) was removed and replaced in 1990, and a 1,000-gallon waste oil UST associated with this USAR Center is listed as permanently closed (EDR, 2006). The EDR report lists the 12,000-gallon heating oil UST as active, but site personnel claim all USTs have been removed from the Property. Closure dates and reports to resolve this discrepancy were not available for review for this ECP report.

According to the EDR report, no aboveground storage tanks (ASTs) were previously associated with the Property, and none was observed during the August 2006 reconnaissance survey.

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 not available for review. Site personnel interviews and the site reconnaissance were used to develop the inventory for this Property. Although no reports are known to exist on chemical and hazardous substances, based on site interviews and observations, it appears that a limited quantity of regulated substances is stored onsite for building maintenance and janitorial needs.

A three-bay hazardous material storage shed was observed in the MEP area. During the site reconnaissance, Bay 1 of the shed was observed to contain one 55-gallon drum containing about 20 gallons of used oil, one 55-gallon drum of used antifreeze, a 55-gallon drum filled with asbestos-suspected material, and five 10-gallon empty fuel containers. Bay 2 had five 5-gallon containers of lubricating oil, four 5-gallon containers of paint, a 30-gallon container of virgin motor oil, two empty 55-gallon drums, and two portable grease-dispensing units. Bay 3 contained two empty 55-gallon drums and one blue poly 55-gallon drum.

Current tenants use a licensed commercial company for herbicide and pesticide management.

6.3 Waste Disposal Sites

Interviews with site personnel 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.

Army records (Section 3.5.5) were available for review to determine the history of one waste disposal event on the Property. Apparently diesel fuel had been dumped in the OWS, and it was discovered on a Friday in May 2001. The wash rack grate was covered and weighted down over the weekend until the proper equipment could be brought onsite to pump out the OWS. This was completed in a timely manner, but it was never determined how the free product was released into the OWS, or how long it had been there.

6.4 Pits, Sumps, Drywells, and Catch Basins

During the site reconnaissance survey, floor drains were observed in all bathrooms in the main building, OMS building, kitchen, and boiler room. The kitchen also has a grease trap, and the boiler room is equipped with a sump. Many storm drains and catch basins also were observed around the exterior of the buildings, including the MEP and POV parking areas. The storm drains in POV1 in front of the OMS building and the MEP parking lots are connected to OF1, which is a 24-inch corrugated pipe that discharges to the riprap swale to the southeast corner of the Property. Drains in POV2 located to the southwest corner of the main building are connected to OF2, which discharges to a narrow strip of wooded land to the west of the Property.

An OWS is present in the northeast corner of the OMS building. Records of installation and maintenance of the OWS were not available for this Draft Final ECP report, other than those mentioned in Section 3.5. A Stormwater Pollution Prevention Plan (USGS, 2001) confirms the OWS and the other indoor drains are connected to the City of New Haven sanitary sewer.

6.5 Asbestos-containing Material

A 1994 survey of ACM at this facility found only non-friable ACM in the floor tiles and beige exterior window caulking. Pipe insulation throughout the main building and OMS building had blue asbestos-free insulation stickers on them (Photograph 6, Appendix B).

During the August 23, 2006, site reconnaissance, blue stickers reading "Asbestos Free Insulation" (Photograph 3, Appendix B) were seen on pipes throughout the main building and the OMS building. The water heater in the boiler room also has the sticker.

No ACM was observed during the site reconnaissance, but there was a drum of suspected ACM in Bay 1 of the storage shed. Facility personnel indicated that suspected ACM was removed from the OMS building during recent maintenance, and that the samples of the drum contents had been sent for testing to properly identify the material.

6.6 PCB-containing Equipment

No record of a polychlorinated biphenyl (PCB) survey for the USAR Center was available for review for this Draft Final ECP report.

There are three 25-kilovolt-amp (kVA) transformers mounted on a utility pole located on the northwest corner of the exterior wall of the drill hall (Photograph 5, Appendix B). The PCB content of the transformer is not known. At the time of the site reconnaissance, the transformers' exteriors looked good, and there were no visible leaks or releases from the transformers.

6.7 Lead-based Paint

Site personnel indicated that an LBP survey has been conducted for this Property, but RRC personnel confirmed that a survey had not been conducted. At the time of the site reconnaissance, all paint looked to be in good condition. No chipped or peeling surfaces were observed.

6.8 Radon

Correspondence dated November 15, 1994, from the Installation Environmental Management Office to the Commander 94th RRC indicated that a site-specific radon survey was conducted at the USAR Center around 1992-1993. The letter further stated that no sample locations exhibited radon levels above USEPA's recommended maximum allowable exposure level of 4 picoCuries per liter (pCi/L); however, one of the radon sample canisters was missing from the main building at the time of sample collection.

6.9 Munitions and Explosives of Concern

Based on the site reconnaissance and interviews with USAR Center personnel, there are no indications that munitions and explosives of concern (MEC) are present at the Property. There was an indoor firing range located in the northwest side of the basement of the main building, but any small arms ammunition associated with it would not be considered MEC (Memorandum, Department of Army Office of Assistant Secretary [Installations and Environment], 21 Apr 2005, subj: Munitions Response Terminology). IT Corporation (2004) prepared a report on the decommissioning of this indoor firing range. Based on site observations, the former location of the indoor range appears clean, and facility personnel are awaiting clearance from the 94th RRC to start using the space for other purposes.

6.10 Radioactive Materials

Based on the site reconnaissance and interviews with USAR Center personnel, there is no indication that radioactive materials were stored or used at the USAR Center; however, RRC personnel have indicated that radioactive materials were present in equipment such as watches and compasses that have been used and stored on the Property over the years.

7 Review of Special Resources

7.1 Land Use

The City of New Haven Planning Department has designated this Property and properties to the east as RM-1, Residential and Light Manufacturing. Areas to the north and northwest are designated CEM, Cemetery, and areas to the south and southwest are designated PARK, Park.

7.2 Coastal Zone Management

The Office of Long Island Sound Programs (OLISP) is the lead agency for the Connecticut Coastal Management Program. 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, no jurisdictional wetland areas are identified on the Property or on adjacent properties. A 1996 natural resources survey (ENSR, 1996) also did not indicate any wetlands on the Property. The nearest wetlands—a freshwater pond designated PUBHx and a freshwater forested/shrub wetland designated PSS1/EM1E—are approximately 0.2 mile north-northeast and 0.4 mile north-northwest of the property, respectively. Figure 15 in Appendix A provides a map of wetlands in the immediate vicinity of the Property.

7.4 100-year Floodplain

A review of the Federal Emergency Management Agency (FEMA) digital Flood Hazard Area map indicates that the Property is not within the 100-year floodplain, but the southern end of the Property lies within an area described as "areas between the limits of the 100-year flood and 500-year flood." Figure 6 in Appendix A provides a map of the 100-year floodplain elevations located in the immediate vicinity of the Property.

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. The USAR Center is contiguous with the West Rock Ridge State Park to the southeast. West Rock Ridge State Park does have many state endangered and threatened species, but they are all associated with trap rock ridge habitat, which does not occur on the Property.

7.6 Cultural Resources

The Connecticut Historic Commission Historic Property Data Collection Form (Appendix D) provides information about a cultural resources survey that Public Archaeology Laboratory, 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 be on the National Register of Historic Places (NRHP). Because the buildings on the Property were constructed prior to 1956, they may be eligible for listing on the NRHP. No other artifacts of historic significance were identified on the Property.

7.7 Other Special Resources

There are no known other special resources associated with 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 U.S. Code 9601(14)) were used and stored at the Property in amounts necessary to support unit-level vehicle and building maintenance activities. There is no evidence that the chemicals used or stored were released or disposed of at the Property.

There is, however, an OWS in the northeast corner of the OMS building Available records (DTC, 1998) indicate that the OWS was last inspected in 1998. The inspection report indicated several cracks in the concrete wash rack and catch basin, but the OWS itself was said to be functional and in satisfactory condition. The report also states that the efficiency of the system is questioned due to the presence of oil staining observed on the sewer floor (the OWS discharges to the sanitary sewer).

Sampling after the 2001 incident with free product in the OWS also apparently did not occur. Therefore, it is not certain whether a release beyond the OWS occurred.

USTs/ASTs. Available information indicates that three USTs were associated with the Property. Two of the USTs (12,000-gallon and 1,000-gallon capacities) are reported to be permanently closed, and one 12,000-gallon UST is reported as currently in use. Interviews with site personnel indicate all USTs have been removed from the site. No further information was available on the USTs to resolve this discrepancy.

No ASTs are currently or formerly located at this USAR Center.

Non-UST/AST Petroleum Storage. Petroleum storage in 55-gallon and 30-gallon containers and three 10-gallon motor oil portable dispensers were observed in both the OMS building and hazardous waste shed.

PCBs. No information was available about the PCB content of the three 25-kVA transformers located to the northwest corner of the exterior wall of the drill hall.

ACM. All pipe and tank insulation carry asbestos-free insulation stickers. The ACM report stated that non-friable ACM was identified in the floor tiles and beige exterior window caulking. The report concluded that the identified ACM presents a limited potential hazard and recommend no remedial action.

LBP. An LBP survey was not prepared for this facility. No chipped or peeling paint was observed during the August 2006 site reconnaissance.

Radiological Materials. Based on available records reviewed, interviews, and a site reconnaissance, there is no evidence of any radiological materials storage or releases at the Property; however, watches and compasses have been used and stored on the Property over the years.

Radon. A 1992-1993 site-specific radon survey conducted at the Property indicated radon levels below USEPA-recommended action levels**.**

MEC. Available records do not indicate any MEC currently located at this Property. A former indoor firing range that was located in the main building has been cleaned up, but any small arms ammunition associated with it is not considered MEC.

Surrounding Properties. Potential environmental sites of concern, located within the applicable ASTM search radius distance from the Property, were evaluated through database review and site reconnaissance. Hamden Landfill is located upgradient approximately 0.2 mile northwest of the Property. Offsite releases from this site may impact the environment at the USAR Center.

Wetlands and Floodplain. According to the 1988 USFWS National Wetlands Inventory maps and natural resources inventory conducted for this Property (ENSR, 1996), no wetlands were observed or appear to be associated with any of the facilities at this site or with any 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 surveys conducted by ENSR (ENSR, 1996) concluded the USAR Center did not contain any key rare species or any endangered or threatened plants and animals. The Property is adjacent to West Rock Ridge State Park. West Rock Ridge State Park does have Connecticut state endangered and threatened species.

Archaeological and Historical Resources. Because the buildings on the Property were constructed prior to 1956, they may be eligible for listing on the 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:

- Impact of the wash rack and OWS operation and use on the environment has not been assessed, in light of a documented incident in 2001.

- Clarification is needed on the status of the other 12,000-gallon UST.

9 References

Persons Contacted

- James D. Ng, 359th Quarter Master Battalion, Facility Manager, 203-389-7900, August 23, 2006.
- Tamara Gooch, 439th Quarter Master Battalion, 203-389-3531, August 23, 2006.
- Harry Wilmot , 94th RRC, Senior Planning Specialist, 978-796-2505, August 23 2006.
- Mr. Shekinah D. Bailey, Real Estate Chief/RPAO/Human Resource Specialist 94th RRC, 978-796-2247, February 9, 2007.
- Mr. Stein, 94th RRC Safety Officer, 978-784-3965, February 7, 2007.

Resources Consulted

- Aerial photographs provided by EDR dated 1940, 1963, 1975, 1980 and 1991.
- National Wild and Scenic Rivers, http://www.nps.gov/rivers/wildriverslist.html#ny.
- USEPA Map of Radon Zones, http://www.epa.gov/radon/zonemap.html.
- Office of Long Island Sound Programs (OLISP), http://dep.state.ct.us/olisp/index.htm.
- 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
  - Underground Storage Tank File, 2005
  - Connecticut Brownfield Inventory, 2006

Agencies Contacted

- City of New Haven, Connecticut http://www.cityofnewhaven.com/Government/Departments.asp
- Office of Long Island Sound Programs (OLISP), http://dep.state.ct.us/olisp/index.htm

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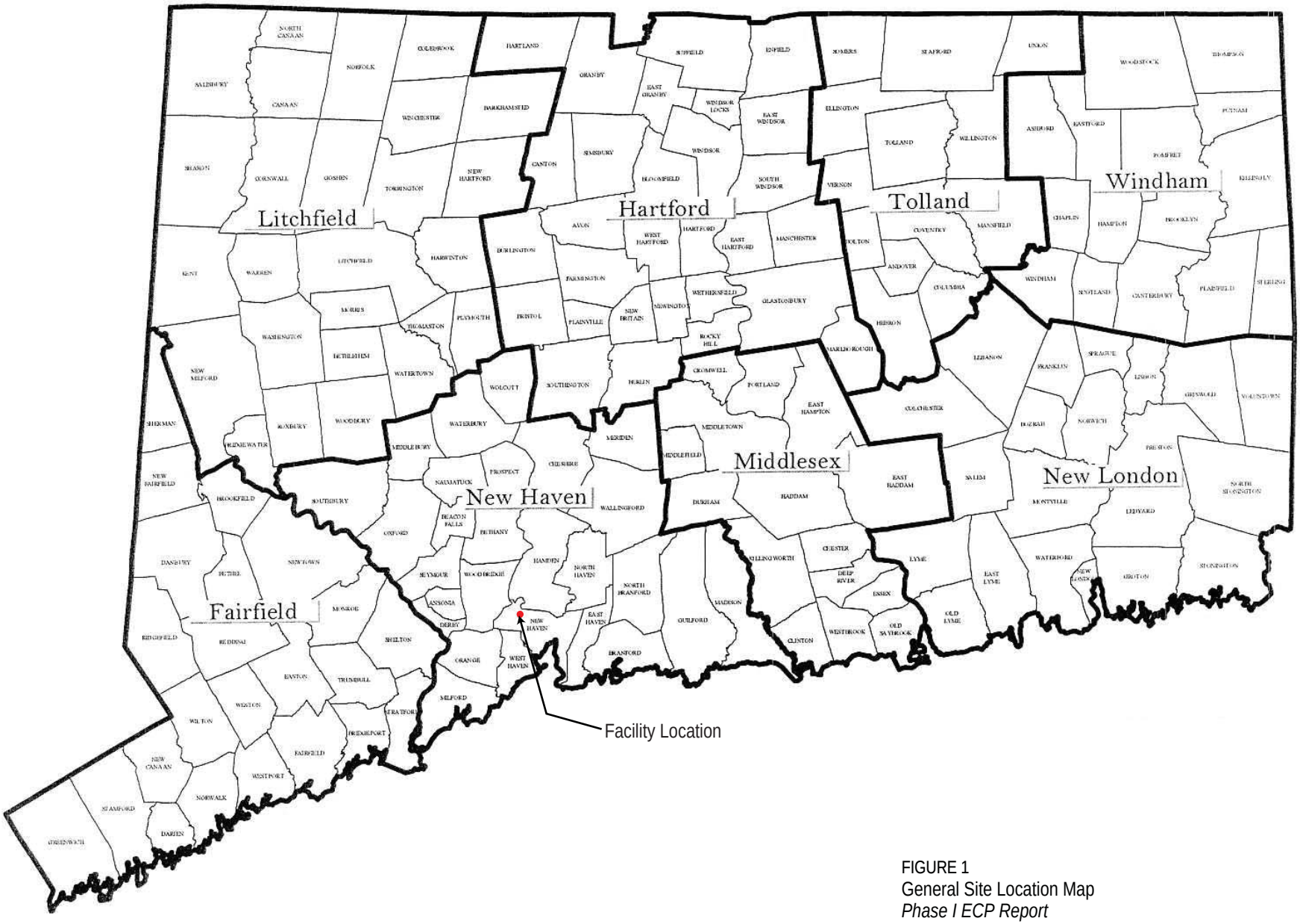
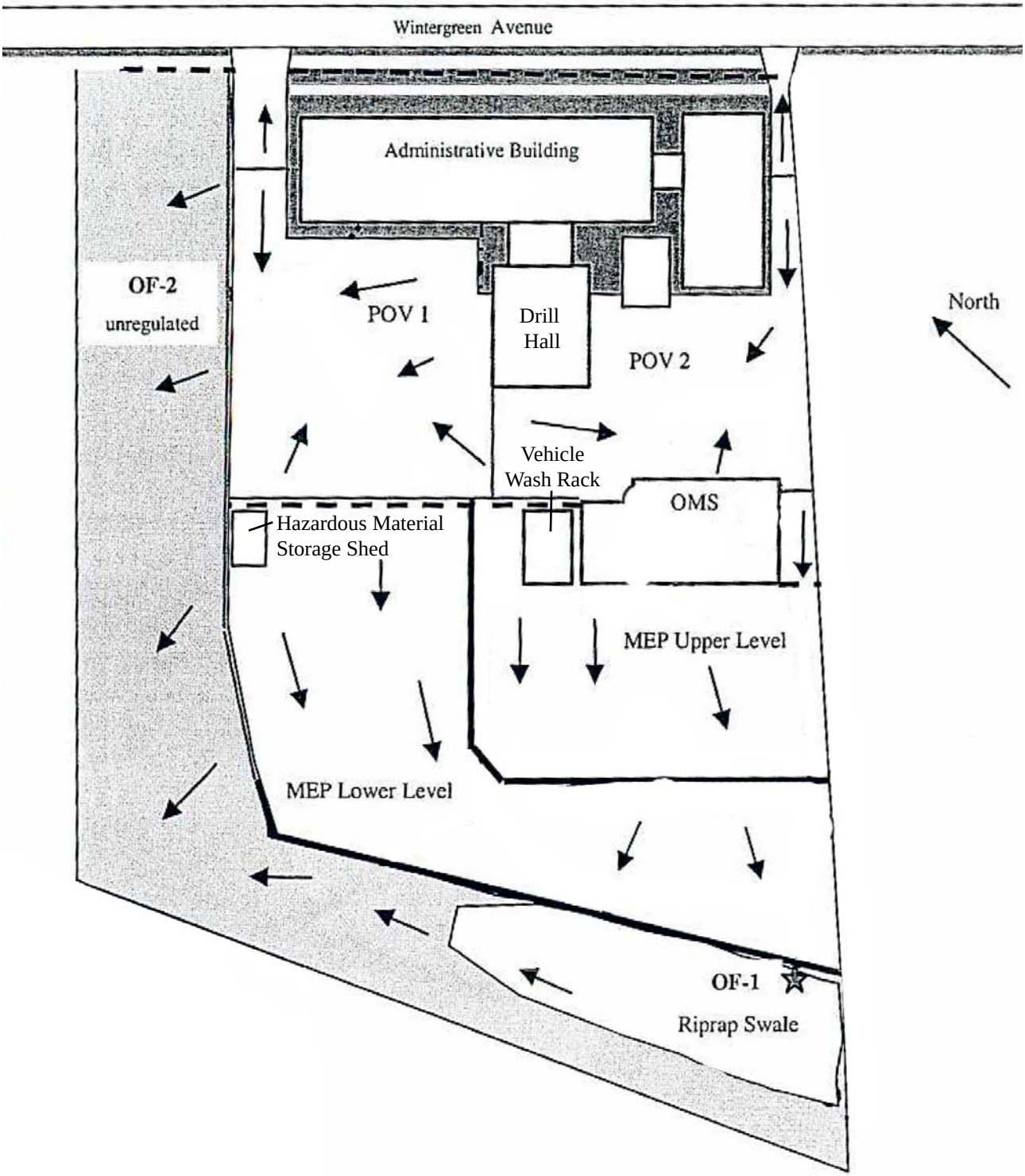
Appendix A
Figures



North

FIGURE 1
General Site Location Map
Phase I ECP Report

CH2MHILL



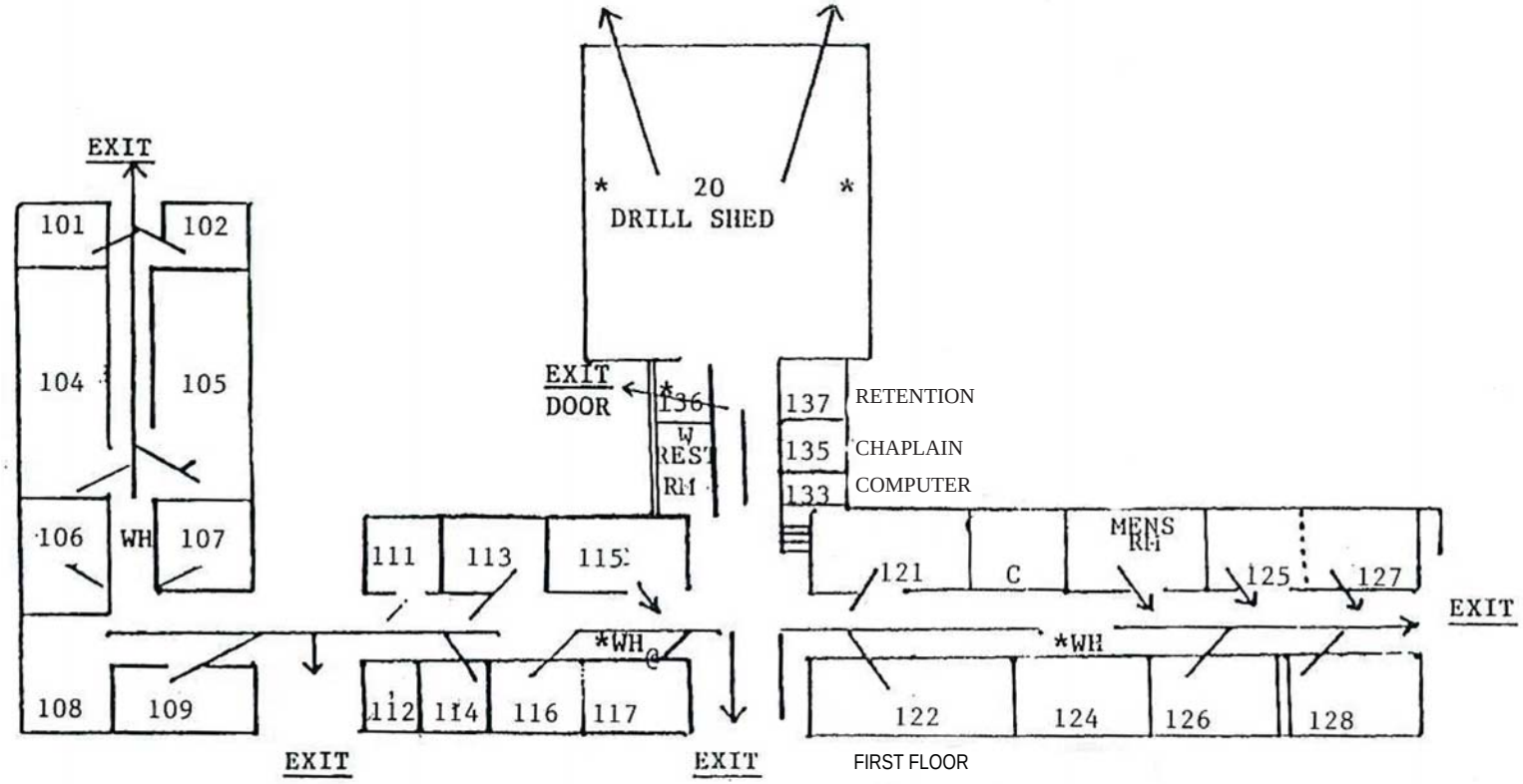
LEGEND

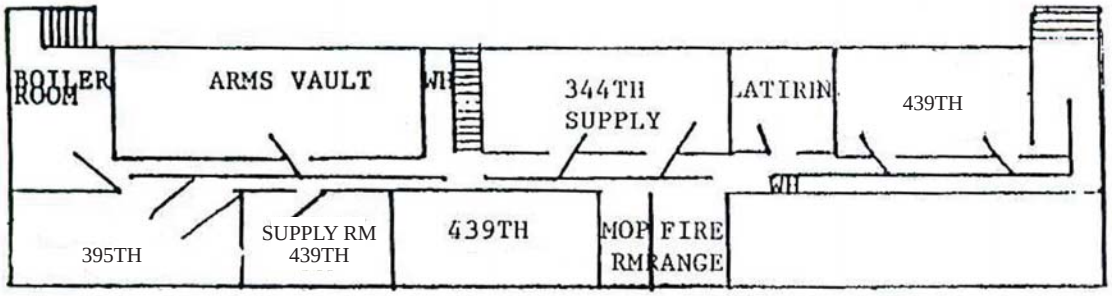
→ Storm Water Runoff

Not to Scale

SOURCE: SWP3, 2005

FIGURE 2
Site Layout Plan
Phase I ECP Report





BASEMENT LEVEL

North

Not to Scale

FIGURE 3
Main Building Floor Plan
Phase I ECP Report

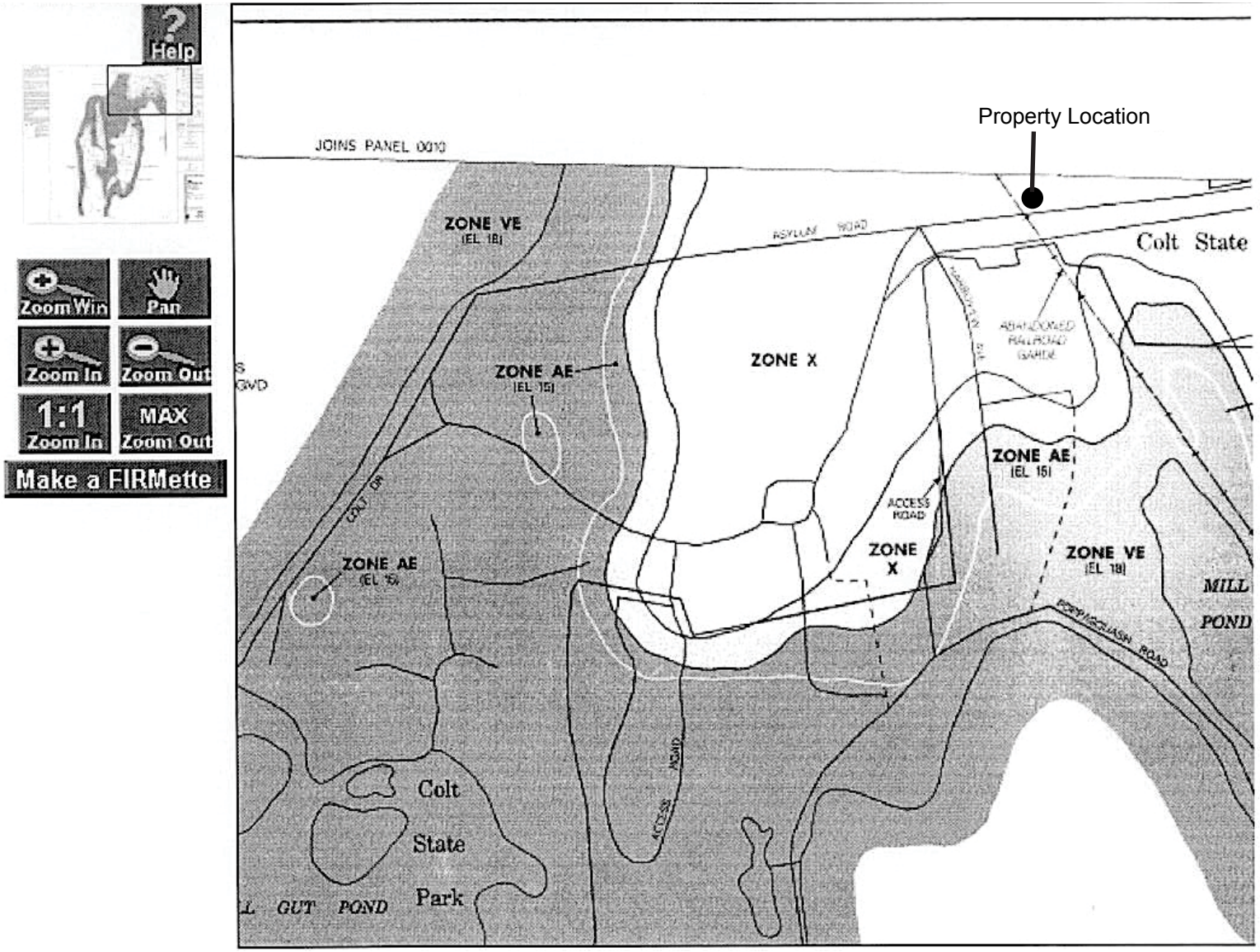
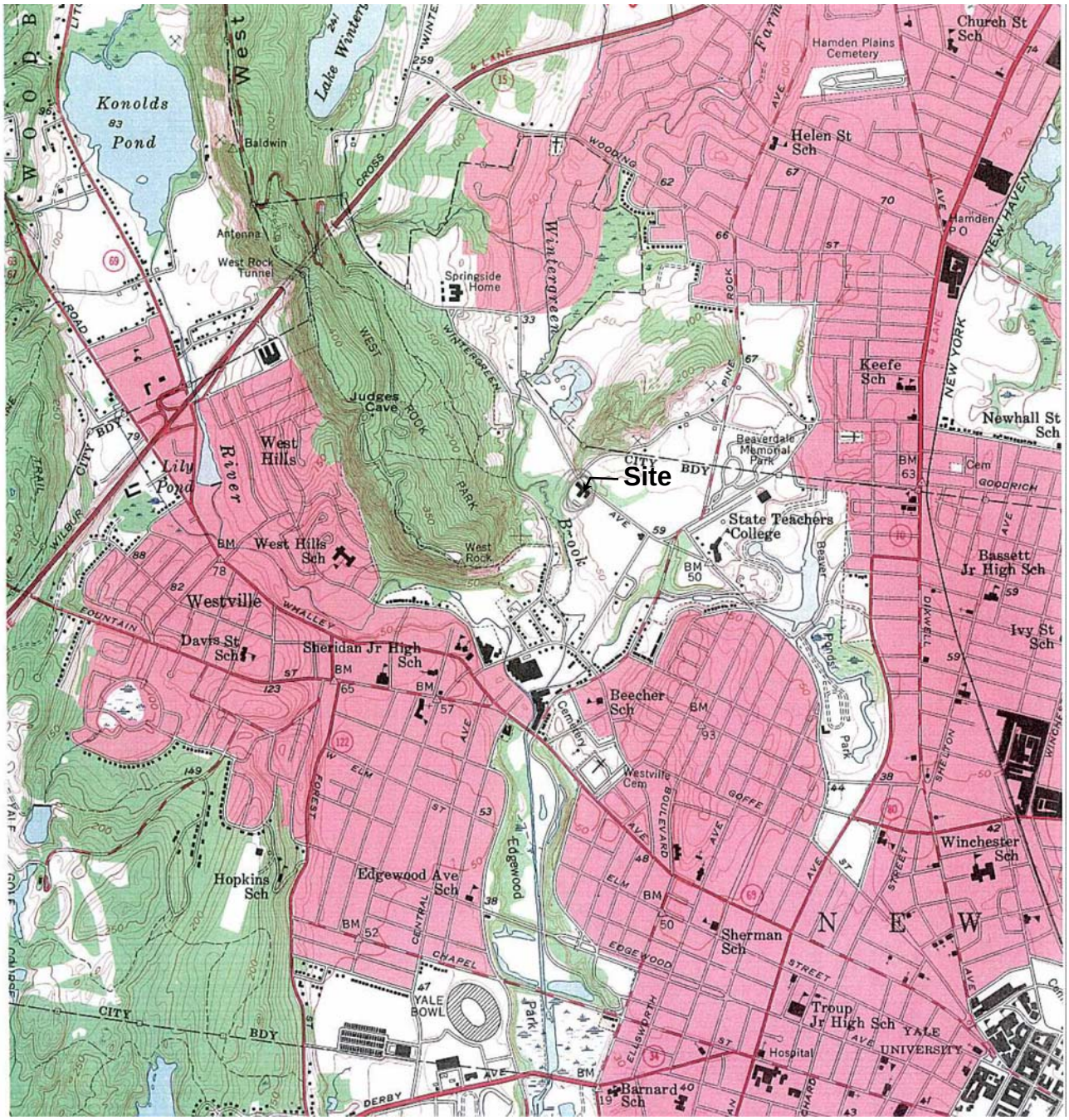


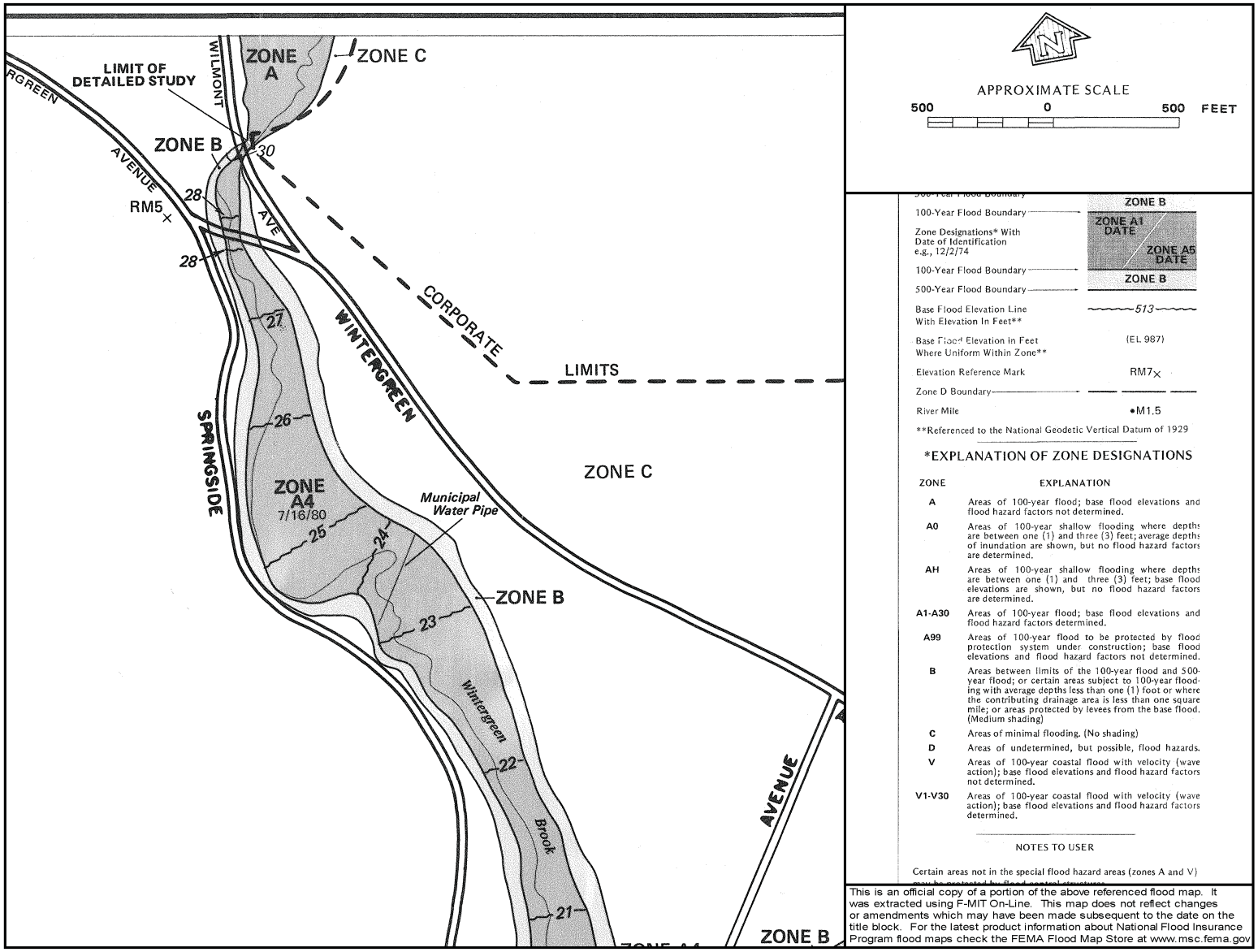
FIGURE 4
Flood Plain Map
Phase I ECP Report



North

FIGURE 5
1954 USGS 7.5 Minute Topographic Map
Phase I ECP Report

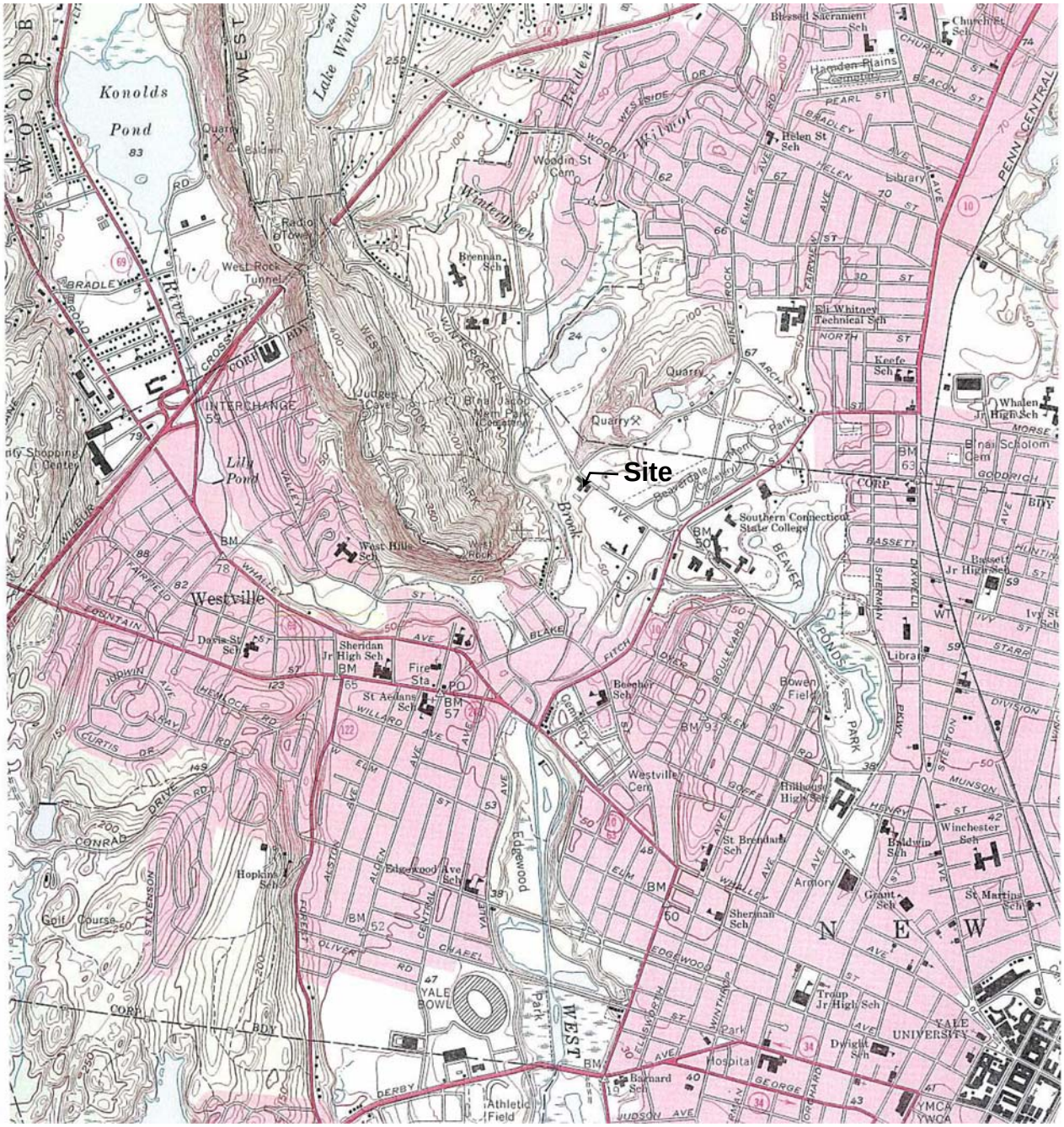
CH2MHILL



North

FIGURE 6
Flood Plain
Phase I ECP Report

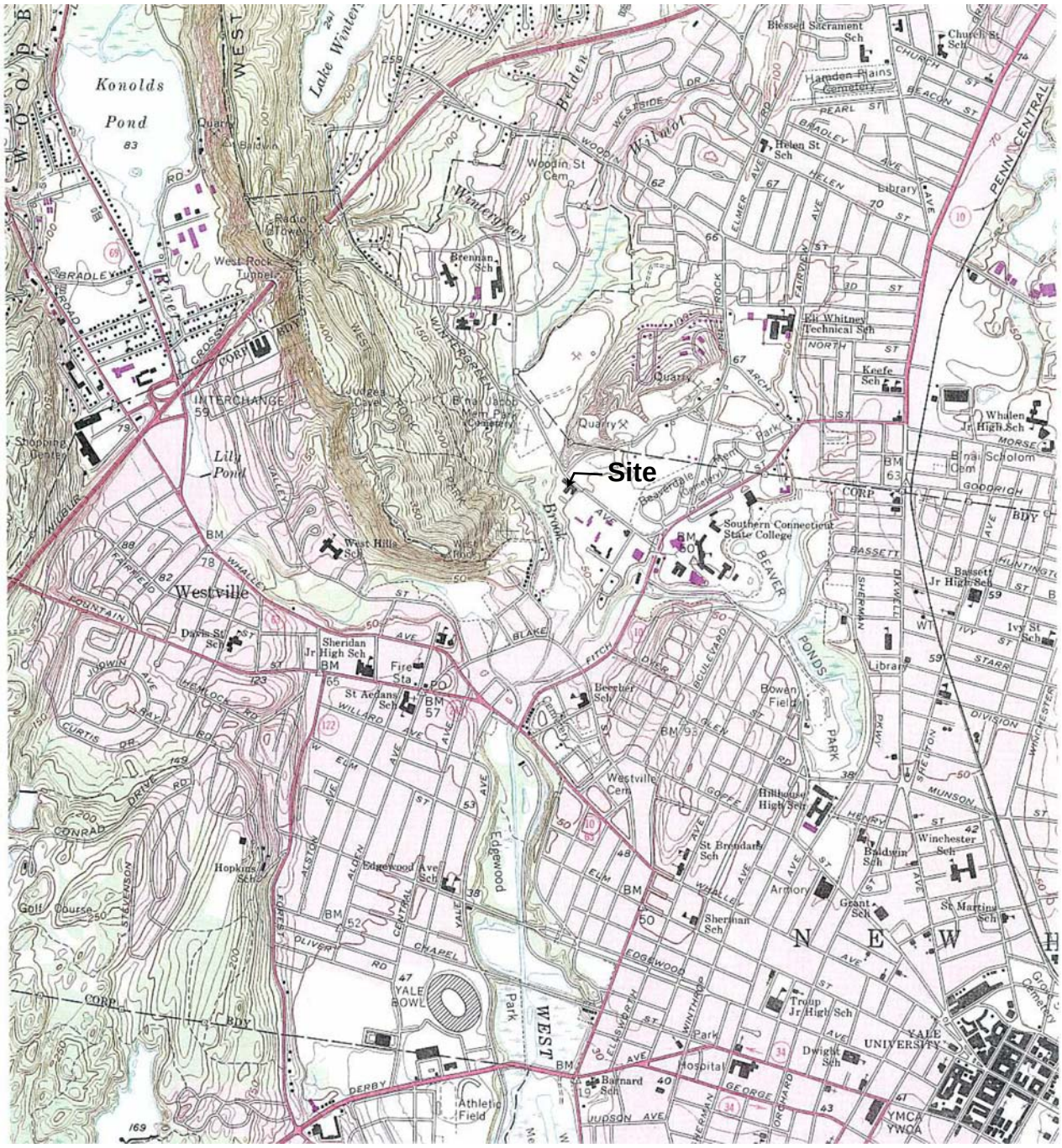
CH2MHILL



North

FIGURE 7
1962 USGS 7.5 Minute Topographic Map
Phase I ECP Report

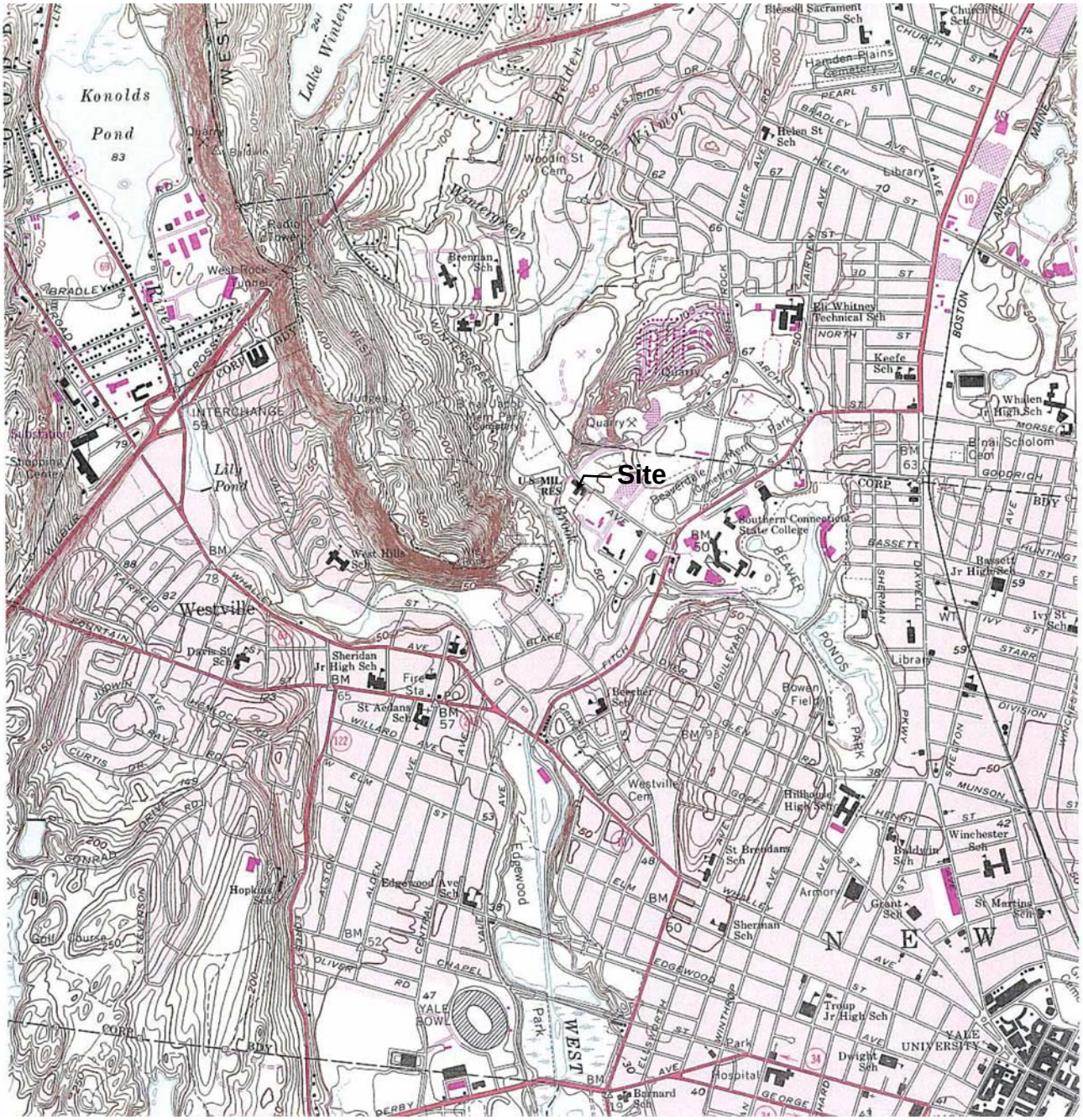
CH2MHILL



North

FIGURE 8
1972 USGS 7.5 Minute Topographic Map
Phase I ECP Report

CH2MHILL



North

FIGURE 9
1984 USGS 7.5 Minute Topographic Map
Phase I ECP Report

CH2MHILL

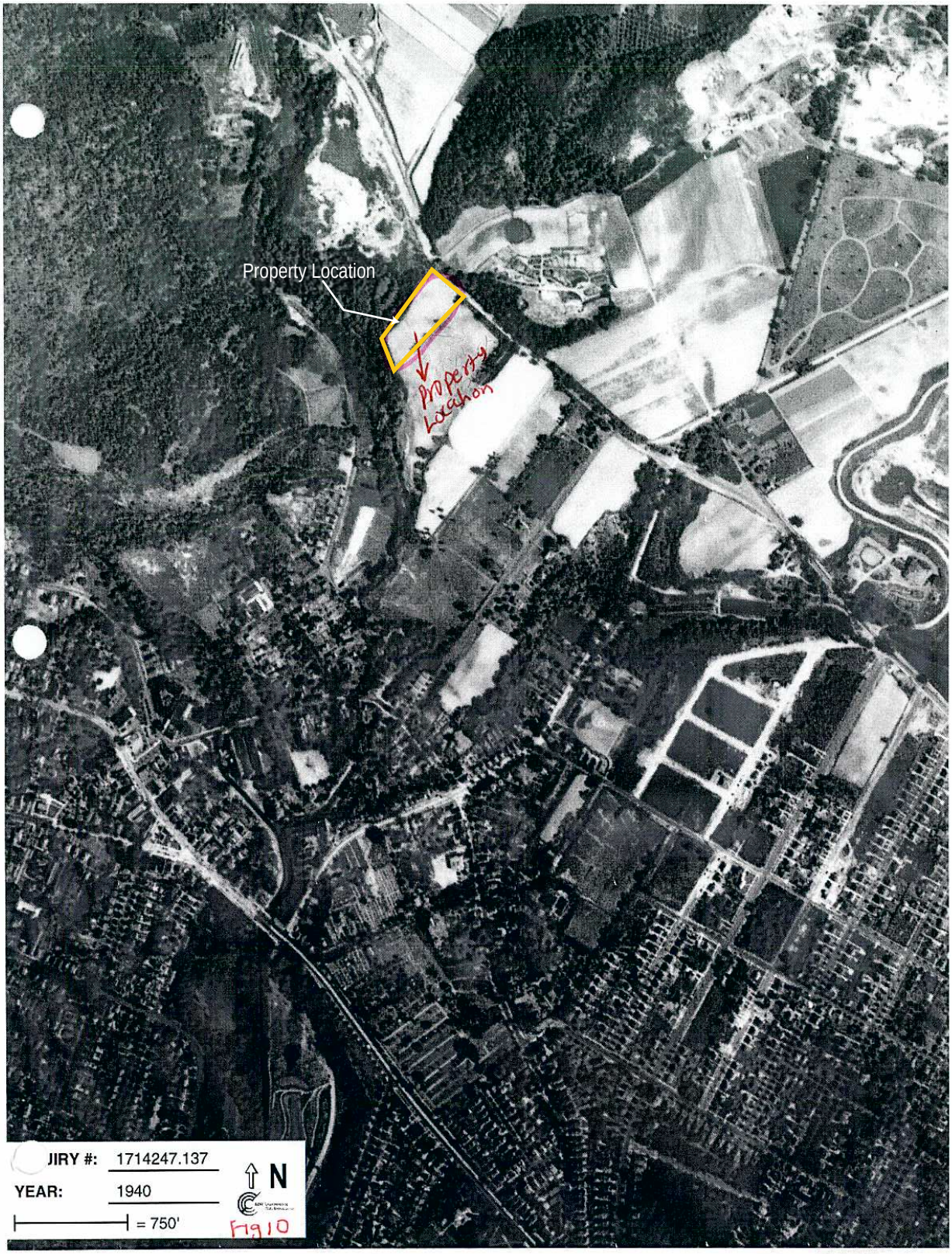


FIGURE 10
1940 Aerial Photograph
Phase I ECP Report

FIGURE 11
1963 Aerial Photograph
Phase I ECP Report

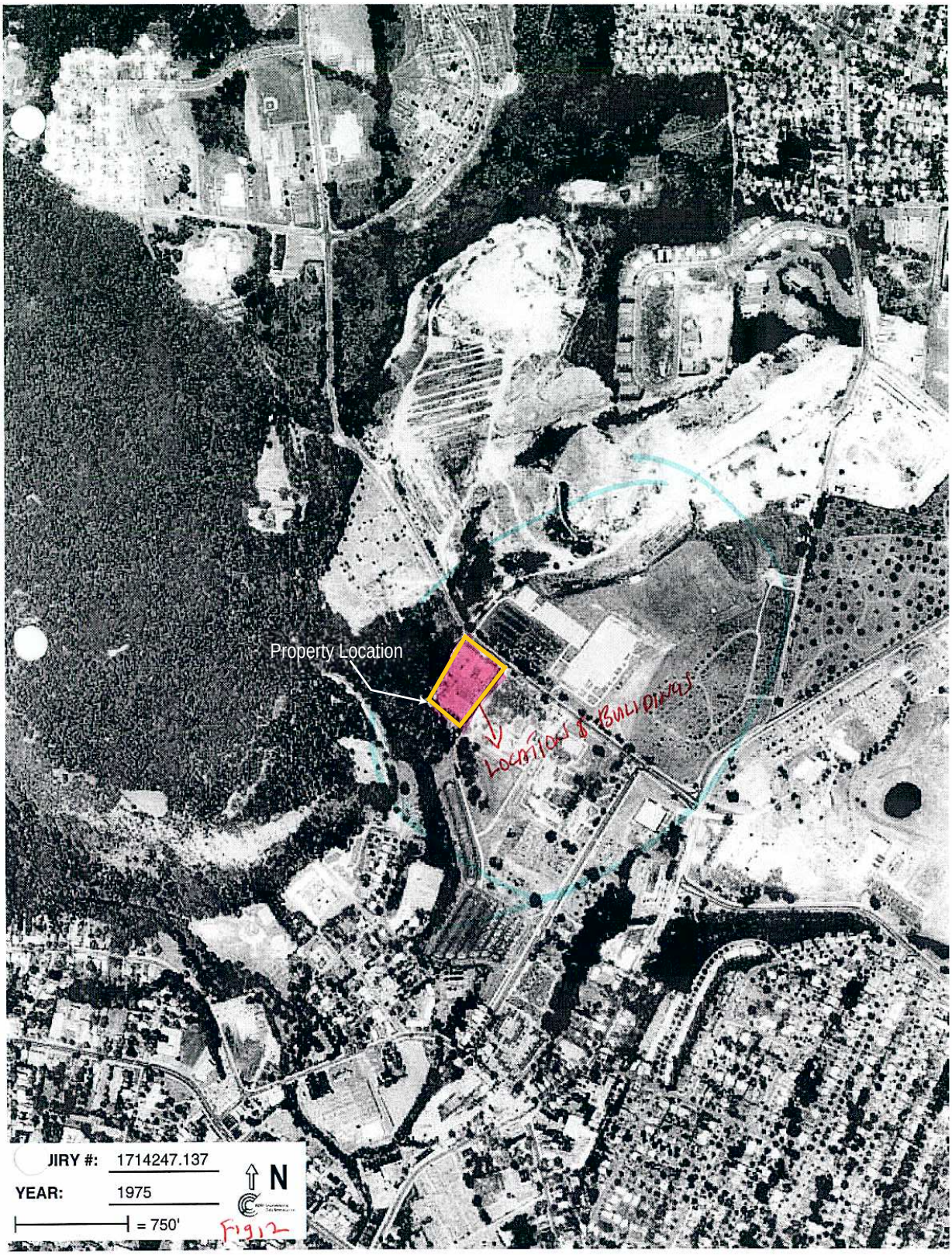


FIGURE 12
1975 Aerial Photograph
Phase I ECP Report

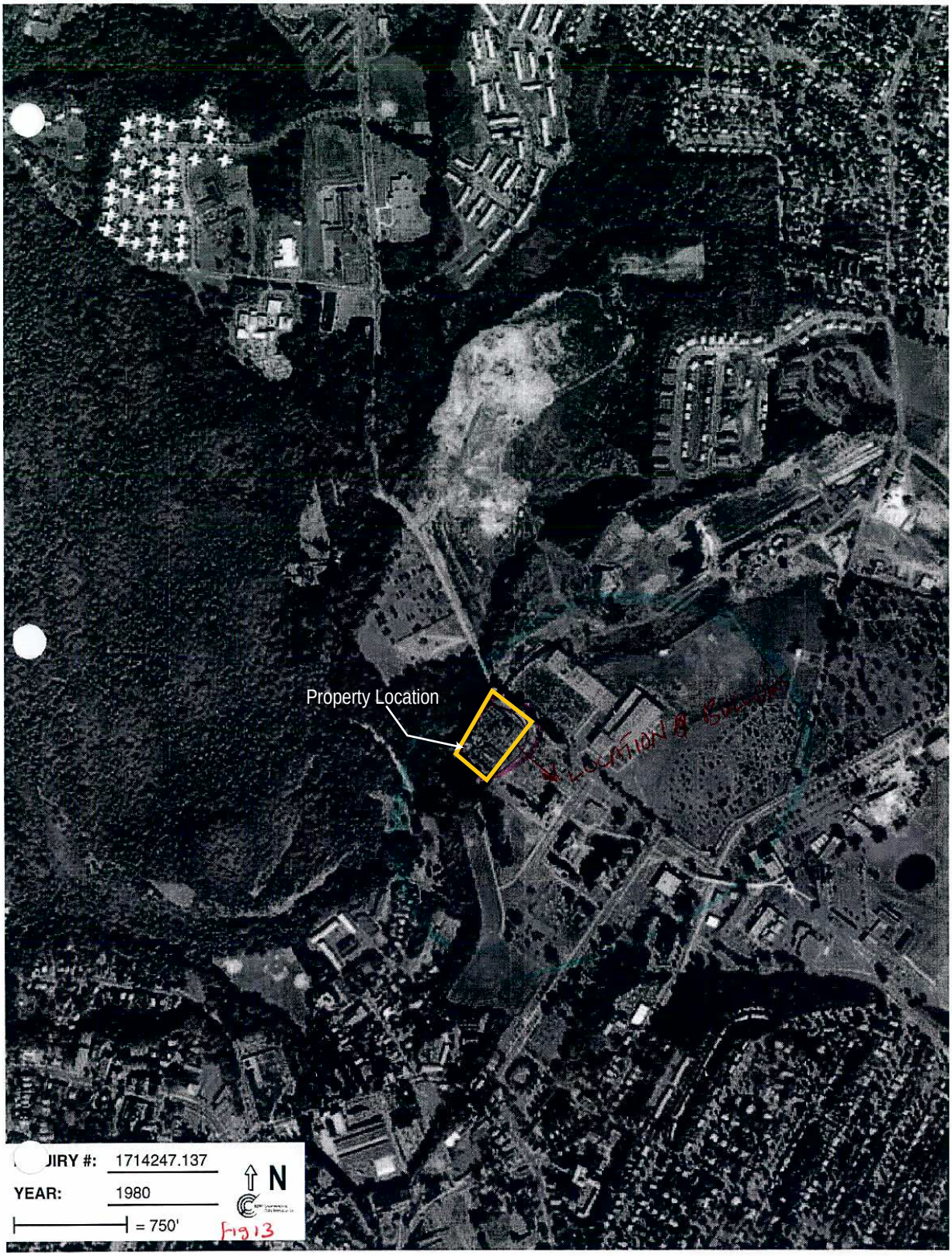
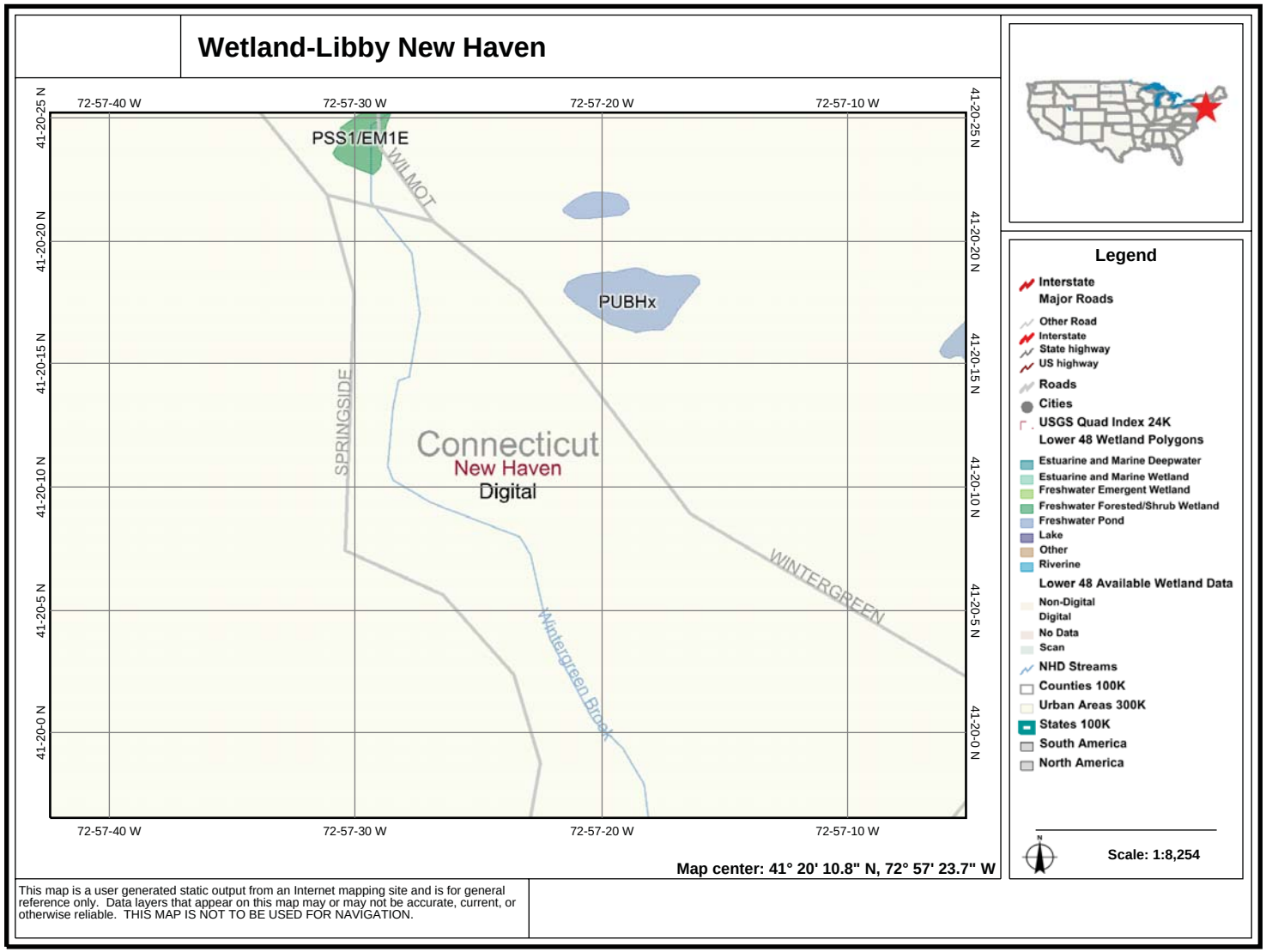


FIGURE 13
1980 Aerial Photograph
Phase I ECP Report

FIGURE 14
1991 Aerial Photograph
Phase I ECP Report



North

FIGURE 15
Wetland Inventory Map
Phase I ECP Report

CH2MHILL

Appendix B

Site Reconnaissance Photographs

APPENDIX B

Site Reconnaissance Photographs

1. *Looking south inside Bay 1 of OMS Building (Storage cage).*

2. *View looking southwest inside Bay 5 of OMS building.*

3. *View looking at Asbestos free Insulation on pipe inside OMS bulding.*

4. *View looking north at Vehicle wash rack and drain in the center.*

5 View looking at utility pole-mounted transformers *.*

6. View Looking inside Bay2 of the Hazardous material shed.

7. View looking at fresh cut on the asphalt in POV1in front of OMS building.

8. View looking south at OMS Buildings.

Appendix C

Property Acquisition Documents and Chain of Title 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
170 Wintergreen Ave. New Haven, CT 06515-1048 New Haven County Client #: n/a Project #: ES11501B

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: NHVN-00368-001161-

TABLE SUMMARY

DATE	DOCUMENT TYPE	GRANTOR (Seller/Lessor)	GRANTEE (Buyer/Lessee)	PARCEL or LOT #	BOOK/PAGE REFERENCE:
05/22/52	Warranty Deed	Myrlon A. Farnham, individually and Executor of the Estate of Birdsey A. Farnham, Anneva M. Farnham, & Seletta F. Stephens	United States of America	Subject parcel	1738-394
01/13/36	Quit Claim Deed	Jennie B. Farnham, Seletta F. Stephens, Anneva M. Farnham	Myrlon A. Farnham, Birdsey A. Farnham, Anneva M. Farnham, & Seletta F. Stephens	Subject Parcel	1337/200
01/13/36	Executor's Deed	Myrlon A. Farnham & Birdsey Farnham as executors of the estate of Arthur Farnham	Jennie B. Farnham, widow of Arthur, Seletta Stephens, Anneva M. Farnham	Subject Parcel	1337/197

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.

DISCLAIMER
The information contained in this report has been obtained from publicly available sources and other secondary sources of information produced by entities other than Banks Information Solutions, Inc (Banks). Although great care has been taken by Banks in compiling and checking the information contained in this report to insure that it is current and accurate, Banks disclaims any and all liability for any errors, omissions, or inaccuracies in such information and data, whether attributable to inadvertence or otherwise, and for any consequences arising therefrom. The data provided hereunder neither purports to be nor constitutes legal or medical advice. It is further understood that Banks makes no representations or warranties of any kind. Including, but not limited to, the warranties of fitness for a particular purpose of merchantability, nor any such representations or warranties to be implied with respect to the data furnished, and banks assumes no responsibility with respect to our customer's, its employees', clients', or customers' use thereof. Banks shall not be liable for any special, consequential, or exemplary damages resulting in whole or in part, from customer's use of the data. Liability on the part of Banks Information Solutions, Inc (Banks) is limited to the monetary value paid for this report. The report is valid only for the geographical parameters specified on the cover page of this report, and any alteration or deviation from this description will require a new report. This report does not constitute a legal or licensed opinion.

TO ALL PEOPLE TO WHOM THESE PRESENTS SHALL COME, GREETINGS:

KNOW YE, That we, Myrlon A. Farnham, individually and as Executor of the Estate of Birdsey A. Farnham, deceased, Annova M. Farnham and Soletta F. Stephan, all of the City of New Haven, County of New Haven and State of Connecticut, for the consideration of Twenty-nine Thousand Five Hundred Dollars ($29,500.00) 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, with all the improvements thereon, situated in the Town of New Haven, County of New Haven, and State of Connecticut, more particularly bounded and described as follows:

> Beginning at a point in the westerly line of Wintergreen Avenue at land of Congregation B'Nai Jacob, said point being distant northwesterly 750.0 feet from the northerly line of Brook Street when measured along the westerly line of Wintergreen Avenue; thence running southeasterly by said Wintergreen Avenue 150.0 feet to a point; thence turning and running southwesterly through land of the grantors, parallel to the northerly line of Brook Street, 620 feet to a point; thence turning and running northwesterly through land of the grantors 160 feet, more or less, to land of the Congregation B'Nai Jacob, said point being 545 feet distant southwesterly from the westerly line of Wintergreen Avenue; thence turning and running northeasterly by land of the Congregation B'Nai Jacob 545 feet to the point of beginning.
>
> Containing 5.75 acres, more or less.

Together with all our right, title and interest in and to the said Wintergreen Avenue abutting or adjoining said land.

Being a portion of the land which was inherited from our father, Arthur N. Farnham, our mother, Jennie B. Farnham, and our brother, Birdsey A. Farnham, as shown by the probate records of the Town of New Haven.

The above described land is conveyed subject to an easement fifteen (15) feet in width acquired by the City of New Haven for sewer purposes.

TO HAVE AND TO HOLD the above granted and bargained premises with the appurtenances thereof unto the UNITED STATES OF AMERICA, the said Grantee, and its assigns forever, to its and their own proper use and behoof. And also we, the said Grantors, do, for ourselves and 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, except as aforesaid.

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 UNITED STATES OF AMERICA, the said Grantee, and its assigns, against all claims and demands whatsoever.

In Witness Whereof we have hereunto set our hands and seals this 22nd day of May 1952.

Signed, Sealed and Delivered in Presence of:

H. W. Reed

Gladys Cone Brown

Myrlon A. Farnham (3)
Myrlon A. Farnham

Anneva M. Farnham (5)
Anneva M. Farnham

Seletta F. Stephan (9)
Seletta F. Stephan

Myrlon A. Farnham Exr. (3)
Myrlon A. Farnham, Executor of Estate of Birdsey A. Farnham

STATE OF CONNECTICUT

County of New Haven May 22 1952

Personally appeared Myrlon A. Farnham, individually and as executor aforesaid, Anneva M. Farnham and Seletta F. Stephan, signers and sealers of the foregoing instrument, and acknowledged the same to be their free act and deed, before me

H. W. Reed
Notary Public (Notarial Seal)

My commission expires April 1, 1953

WARRANTY DEED

Myrlon A. Farnham et al

to

United States of America

Received for Record May 26 1952 at 3:55 P.M.
And Recorded in Rec Book Vol. 1735 Page 992

Attest:

Return to: New England Division, Corps of Engineers, 639 Commonwealth Ave., Boston 15, Mass.

NEW HAVEN COUNTY

TO ALL PEOPLE TO WHOM THESE PRESENTS SHALL COME—GREETINGS:

KNOW YE, that BIRDSEY A. FARNHAM, SELETTA F. STEPHAN, ANNEVA M. FARNHAM and MYRLON A. FARNHAM all of the Town and County of New Haven, State of Connecticut, in consideration of One Dollar (1.00) and other valuable considerations received to our full satisfaction of the CITY OF NEW HAVEN, a municipal corporation, having its office in the City of New Haven, County of New Haven, State of Connecticut, do hereby grant and convey unto the said City of New Haven, its successors and assigns, the right to lay and maintain sewers and sewer pipes for the purpose of constructing and maintaining sewers, both storm and sanitary, together with the authority to cross and recross such areas as may be necessary in the operation of said sewers, over a strip of land fifteen (15) feet in width, situated in the said Town of New Haven, the center of which fifteen (15) foot strip is located as follows:

"The center line of said easement shall begin at a point in the westerly street line of Farnham Street, 650' from the intersection of the northerly street line of Blake Street and the westerly street line of Farnham Street, thence in a westerly direction, making an angle of 90° with Farnham Street, a distance of 350'; thence in a northerly direction deflecting to the right with an angle of 45° a distance of 50'; thence in a northeasterly direction deflecting to the right with an angle of 38° a distance of 310'; thence in a northwesterly direction deflecting to the left with an angle of 41° a distance of 1200'; thence in a westerly direction deflecting to the left with an angle of 77° a distance of 400', more or less, to its intersection with the easterly street line of Springside Avenue. The Center line of the above-described easement is to be the center line of the 24" San. Sewer shown on Map #18741 filed in the City Engineer's Office."

650'

TO ALL PEOPLE TO WHOM THESE PRESENTS SHALL COME, GREETINGS:

KNOW YE, That we, Myrlon A. Farnham, individually and as Executor of the Estate of Birdsey A. Farnham, deceased, Anneva M. Farnham and Selotta F. Stephan, all of the City of New Haven, County of New Haven and State of Connecticut, for the consideration of Twenty-nine Thousand Five Hundred Dollars ($29,500.00) 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, with all the improvements thereon, situated in the Town of New Haven, County of New Haven, and State of Connecticut, more particularly bounded and described as follows:

Beginning at a point in the westerly line of Wintergreen Avenue at land of Congregation B'Nai Jacob, said point being distant northwesterly 750.0 feet from the northerly line of Brook Street when measured along the westerly line of Wintergreen Avenue; thence running southeasterly by said Wintergreen Avenue 450.0 feet to a point; thence turning and running southwesterly through land of the grantors, parallel to the northerly line of Brook Street, 620 feet to a point; thence turning and running northwesterly through land of the grantors 460 feet, more or less, to land of the Congregation B'Nai Jacob, said point being 545 feet distant southwesterly from the westerly line of Wintergreen Avenue; thence turning and running northeasterly by land of the Congregation B'Nai Jacob 545 feet to the point of beginning.

Containing 5.75 acres, more or less.

Together with all our right, title and interest in and to the said Wintergreen Avenue abutting or adjoining said land.

Being a portion of the land which was inherited from our father, Arthur N. Farnham, our mother, Jennie B. Farnham, and our brother, Birdsey A. Farnham, as shown by the probate records of the Town of New Haven.

The above described land is conveyed subject to an easement fifteen (15) feet in width acquired by the City of New Haven for sewer purposes.

TO HAVE AND TO HOLD the above granted and bargained premises with the appurtenances thereof unto the UNITED STATES OF AMERICA, the said Grantee, and its assigns forever, to its and their own proper use and behoof. And also we, the said Grantors, do, for ourselves and 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

Warranty Mortgage

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 UNITED STATES OF AMERICA, the said Grantee, and its assigns, against all claims and demands whatsoever.

In Witness Whereof we have hereunto set our hands and seals this 22 day of May 1952.

Signed, Sealed and Delivered
in Presence of:

H. W. Baird

Gladys Cone Davis

Myrlon A. Farnham (S)
Myrlon A. Farnham

Anneva M. Farnham (S)
Anneva M. Farnham

Seletta F. Stephan (S)
Seletta F. Stephan

Myrlon A. Farnham Exr (S)
Myrlon A. Farnham, Executor of
Estate of Birdsey A. Farnham

STATE OF CONNECTICUT

County of New Haven May 22 1952

Personally appeared Myrlon A. Farnham, individually and as executor aforesaid, Anneva M. Farnham and Seletta F. Stephan, signers and sealers of the foregoing instrument, and acknowledged the same to be their free act and deed, before me.

Herold W. Baird (Notarial Seal)
Notary Public

My commission expires April 1, 1953

RECORDS

2401

Appendix D

Previous Environmental Site Assessment Reports

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

October 17, 1990

Ms. Claudia Johnson
Contract 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., 200 Wintergreen Ave.
New Haven, Connecticut (the site), CHEE Job File No. E-2954

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 12,000-gallon #2 fuel oil tank at the U.S.A.R.C. facility, located at 200 Wintergreen Avenue in New Haven, Connecticut (the site). The tank replacement was completed by Clean Harbors of Kingston, Inc., Connecticut Division.

Removal of the 12,000-gallon tank occurred on March 13, 1990. No soil contamination was encountered during excavation procedures as HNU screening of excavated soils revealed a maximum of 4 parts per million (ppm). The tank was purged and stabilized prior to removal from the excavation. The remaining contents of the tank were transferred to a Frac tank which was connected directly to the furnace as a temporary supply vessel. Residual fuel oil and water from tank cleaning were shipped to were shipped to Clean Harbors of Kingston, Massachusetts for disposal. Tank disposal was handled by Shire Corporation of North Franklin, Connecticut. Disposal Manifests are presented in Appendix A.

CHEE collected a total of twelve soil samples from the excavation and stockpiled soil. These samples were shaken, allowed to equilibrate, and then screened with an HNU meter. The sampling locations are presented on the site plan and the results are listed below.

HNU Field Screening Results
parts per million (ppm)

S-1 = 0.5	S- 7 = 0.5
S-2 = 0	S- 8 = 0
S-3 = 0	S- 9 = 0.5
S-4 = 0.5	S-10 = 0
S-5 = 0	S-11 = 1.0
S-6 = 1.5	S-12 = 0.5

Following field screening procedures, CHEE collected soil samples from the bottom of the excavation. These samples were transported to Clean Harbors Analytical Laboratory in Braintree, Massachusetts for Total and Petroleum Hydrocarbon oil and grease (by IR), Total Metals, Polychlorinated Biphenals (PCB's) 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 12,000-gallon double wall fiberglass tank began on March 15, 1990 and continued through March 22, 1990 and was performed to contract specifications. At ths time the tank was given a final air test which was witnessed by Army officials. Upon completion of the tank testing, 2,000-gallons of fuel oil was transferred from the Frac Tank, into the new underground storage tank. The tank installation, including all site restoration, was completed on March 28, 1990.

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

Sincerely,

Carrie Hobbs Muller
General Mngr

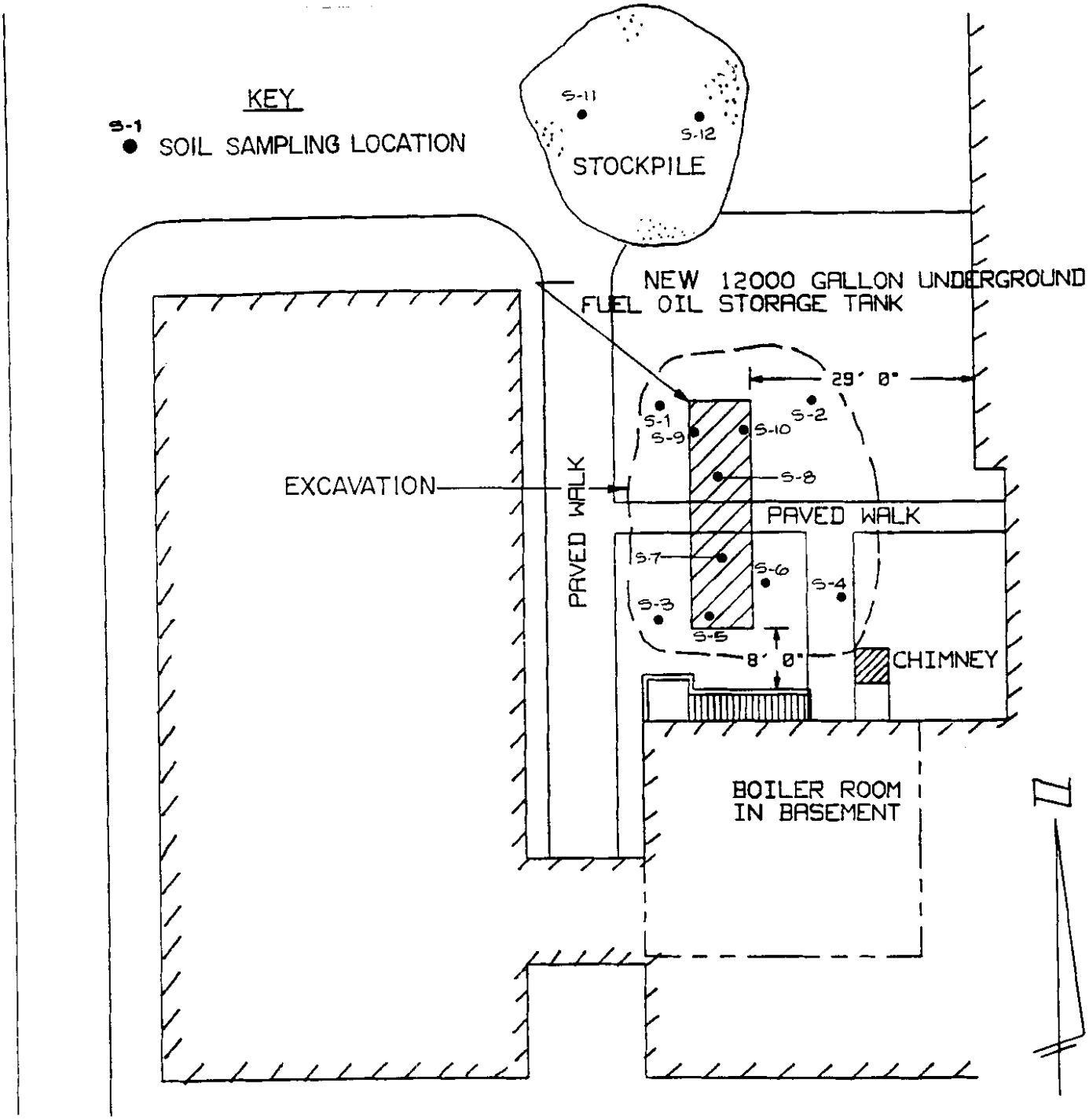
David Gworek P.E.
Operations Manager

Daniel G. Gailor

Daniel G. Gailor
Senior Engineering Assistant

DGG/jmh

USARC Tank Removal/Misc. Ltrs



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.
WINTERGREEN AVENUE
NEW HAVEN, CONNECTICUT

SITE PLAN

PROJECT NO.	E-2954	DWG. NO.	2954-C-01
SCALE	NONE		

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. CT P024248900 Manifest Document No. 385884

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number: MA C 438584

3. Generator's Name and Mailing Address: NEW HAVEN ARMY RESERVE, 200 WINTER GREEN AVE, NEW HAVEN CT

B. State Gen. ID: SAME

4. Generator's Phone (203) 387-2546

5. Transporter 1 Company Name: CLEAN HARBORS OF KINGSTON INC

6. US EPA ID Number: MAD039322250

C. State Trans. ID: 6674-352 MA

7. Transporter 2 Company Name

8. US EPA ID Number

D. Transporter's Phone (617) 585-5111

E. State Trans. ID

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

10. US EPA ID Number: MAD053452637

F. Transporter's Phone ( )

G. State Facility's ID: Not Required

H. Facility's Phone (617) 8991800

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.
a. OILY SOLIDS NON DOT REG NONE/NONE	001	DM	00300	P	MA01
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above (include physical state and hazard code.)
a. OILY SPEEDI DRI + 3M PADS
b.
c.
d.

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

15. Special Handling Instructions and Additional Information
STATE REGULATED MATERIALS.

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: ARNOLD R McCurry — Signature: Arnold R McCurry — Date: Month 04 Day 02 Year 90

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: RONALD V. BOUCHER — Signature: Ronald V Boucher — Date: Month 9 Day 4 Year 90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

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

MA C 438584 COPY 5: TRANSPORTER-RETAINED BY TRANSPORTER

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

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. CTP024248900 Manifest Document No. 385814

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
NEW HAVEN ARMY RESERVE
200 WINTER GREEN AVE NEW HAVEN CT

4. Generator's Phone (203) 387-2546

A. State Manifest Document Number MA C 438584

B. State Gen. ID SAME

5. Transporter 1 Company Name CLEAN HARBORS OF KINGSTON INC

6. US EPA ID Number MAD039322250

C. State Trans. ID 6674-352 MA

7. Transporter 2 Company Name

8. US EPA ID Number

D. Transporter's Phone (617) 585-5111

E. State Trans. ID

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

10. US EPA ID Number MAD053452637

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.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. OILY SOLIDS NON DOT REG NONE/NONE	001	DM	00300	P	MA01
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above (include physical state and hazard code.)
a. OILY SPEEDI DRI + 3M PADS
b.
c.
d.

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

15. Special Handling Instructions and Additional Information
STATE REGULATED MATERIALS.

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: Arnold R. McCurry
Signature: Arnold R McCurry
Date: Month 04 Day 02 Year 90

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: RONALD V. BOUCHER
Signature: Ronald V Boucher
Date: Month 04 Day 02 Year 90

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

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 Ancrum
Signature:
Date: Month 04 Day 02 Year 90

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

MA C 438584 COPY 5: TRANSPORTER-RETAINED BY TRANSPORTER

STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Hazardous Waste MANIFEST PROGRAM, State Office Building
Hartford, CT 06106

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

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: CTP024248001 Manifest Document No: 247733
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but may be required by State law.

3. Generator's Name and Mailing Address: U.S. Dept of Army, Headquarter Fort Devens Fort Devens Ma. 01433
4. Generator's Phone: (508) 796-3685
5. Transporter 1 Company Name: Clean Harbors of Kingston Inc.
6. US EPA ID Number: MAD032222500
7. Transporter 2 Company Name:
8. US EPA ID Number:
9. Designated Facility Name and Site Address: Murph's Waste Oil Service Inc. 252 R Salem st. Woburn Ma. 02189
10. US EPA ID Number: MAD066558005

A. State Manifest Document Number: CT C 0284733
B. State Generator's ID: [illegible] New Haven
C. State Transporter's ID: MA SC 0571
D. Tran. Phone: (617) 826-5111
E. State Transporter's ID:
F. Tran. Phone:
G. State Facility's ID:
H. Facility's Phone: (617) 935-4066

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. Waste oil Combustible liquid NA1270	001	DM	0031.8	G	MA01
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above: #2 Oil + Water

K. Handling Codes for Wastes Listed Above: a. S02 b. c. d.

15. Special Handling Instructions and Additional Information: Spill Call 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, and all applicable State laws and 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: [illegible] Signature: [illegible] Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Mark Thompson Signature: [illegible] Month Day Year: 10 31 2990

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

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: David Murray Signature: [illegible] Month Day Year: 10 31 2990

GENERATOR — TRANSPORTER — FACILITY

COPY 5

EPA Form 8700-22 (Rev. 4/88) Form Approved OMB No. 2050-0039. Expires 9/30/91. Previous edition is obsolete.

COPY 5: Transporter 1 retains

CleanHarbors
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: USARC NEW HAVEN
P.O. #: C-3966

Date Received: 03/15/90
CHAS Lab #: 9003140

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: 3 April 1990
Robert E. Bentley
Laboratory Manager

CleanHarbors

Client: Clean Harbors of Connecticut
Sample I.D.: EXCAVATION S-1
Sample Type: Soil

CHAS Lab #: 9003140-01A
Date Received: 03/15/90

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

Analysis Date: 03/16/90

Parameter	MDL*	Conc.*
Priority Pollutant Compounds:		
Chloromethane	18	ND
Bromomethane	18	ND
Vinyl Chloride	18	ND
Chloroethane	18	ND
Methylene Chloride	9	ND
Trichlorofluoromethane	9	ND
1,1-Dichloroethene	9	ND
1,1-Dichloroethane	9	ND
trans-1,2-Dichloroethene	9	ND
Chloroform	9	ND
1,2-Dichloroethane	9	ND
1,1,1-Trichloroethane	9	ND
Carbon Tetrachloride	9	ND
Bromodichloromethane	9	ND
1,2-Dichloropropane	9	ND
cis-1,3-Dichloropropene	9	ND
Trichloroethene	9	ND
Benzene	9	ND
Dibromochloromethane	9	ND
1,1,2-Trichloroethane	9	ND
trans-1,3-Dichloropropene	9	ND
2-Chloroethylvinyl Ether	18	ND
Bromoform	9	ND
1,1,2,2-Tetrachloroethane	9	ND
Tetrachloroethene	9	ND
Toluene	9	ND
Chlorobenzene	9	ND
Ethylbenzene	9	ND
Hazardous Substance List Compounds:		
Acetone	35	ND
Carbon Disulfide	18	ND
2-Butanone	35	ND
Vinyl Acetate	18	ND
4-Methyl-2-Pentanone	9	ND
2-Hexanone	9	ND
Styrene	9	ND
Total Xylenes	9	ND
Additional Compounds:		
Dibromoethane(EDB)	9	ND
Methyl-t-Butylether(MTBE)	18	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:	90 %		76-114	70-121
	d8-Toluene:	98 %		88-110	81-117
	p-Bromofluorobenzene:	98 %		86-115	74-121

Client: Clean Harbors of Connecticut
Sample I.D.: EXCAVATION S-1
Sample Type: Soil

CHAS Lab #: 9003140-01C
Date Received: 03/15/90

Parameter	MDL	Result	Units	Analysis Date	Method Number and Reference
Total Oil & Grease by IR	10	ND	mg/kg	03/22/90	503B/503D(b)
Petroleum Hydrocarbon Oil & Grease by IR	10	ND	mg/kg	03/22/90	503D/503E-B(b)
Total Solids	--	91.2	%	03/20/90	209F(b)

Notes: ND = Below minimum detectable level (MDL)
Soil/solid samples based on sample dry weight.
Oil & Grease Extraction Date: 03/16/90

Client: Clean Harbors of Connecticut
Sample I.D.: EXCAVATION S-1
Sample Type: Soil

CHAS Lab #: 9003140-01F
Date Received: 03/15/90

Parameter	MDL	Result	Units	Analysis Date	Method Number and Reference
Arsenic - EP Toxicity (1)	0.2	ND	mg/l	03/27/90	3010/6010(c)
Barium - EP Toxicity (1)	0.05	0.07	mg/l	03/27/90	3010/6010(c)
Cadmium - EP Toxicity (1)	0.005	ND	mg/l	03/27/90	3010/6010(c)
Chromium - EP Toxicity (1)	0.01	ND	mg/l	03/27/90	3010/6010(c)
Lead - EP Toxicity (1)	0.1	ND	mg/l	03/27/90	3010/6010(c)
Mercury - EP Toxicity (1)	0.0002	ND	mg/l	03/27/90	7470(c)
Selenium - EP Toxicity (1)	0.2	ND	mg/l	03/27/90	3010/6010(c)
Silver - EP Toxicity (1)	0.02	ND	mg/l	03/27/90	3005/6010(c)

Notes: ND = Below minimum detectable level (MDL)
Soil/solid samples based on sample dry weight.
Sample extracted 03/22/90

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

CleanHarbors

Client: Clean Harbors of Connecticut
Sample I.D.: EXCAVATION S-1
Sample Type: Soil

CHAS Lab #: 9003140-01N
Date Received: 03/15/90

Polychlorinated Biphenyls (PCB's)
by EPA Method 3540/8080

Extraction Date: 03/20/90
Analysis Date: 03/28/90

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

QA/QC Surrogate Recovery: Acceptance Criteria: Soil (EPA 3540)
Hexabromobenzene: 89.5% 78-148%

PCB/Pesticide Surrogate Acceptance Limit Information

PCB/Pesticide QA/QC Surrogate:	Acceptance Criteria: (Recovery in %)		
	Water (EPA 608)	Soil (EPA 3540)	Soil (EPA 3550)
HBB (Hexabromobenzene)	34-104	78-148	75-139

QUALITY CONTROL

REPORT OF ANALYSIS

CHAS LAB. NO. 9003140

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.

CleanHarbors

Volatile Organic Analysis Blank - System 1

by EPA Method 624 (ref. f)

Analysis Date: 03/16/90

Parameter	MDL*	Conc.*
Priority Pollutant Compounds:		
Chloromethane	10	ND
Bromomethane	10	ND
Vinyl Chloride	10	ND
Chloroethane	10	ND
Methylene Chloride	5	ND
Trichlorofluoromethane	5	ND
1,1-Dichloroethene	5	ND
1,1-Dichloroethane	5	ND
trans-1,2-Dichloroethene	5	ND
Chloroform	5	ND
1,2-Dichloroethane	5	ND
1,1,1-Trichloroethane	5	ND
Carbon Tetrachloride	5	ND
Bromodichloromethane	5	ND
1,2-Dichloropropane	5	ND
cis-1,3-Dichloropropene	5	ND
Trichloroethene	5	ND
Benzene	5	ND
Dibromochloromethane	5	ND
Fluorotrichloromethane	5	ND
1,1,2-Trichloroethane	5	ND
trans-1,3-Dichloropropene	5	ND
2-Chloroethylvinyl Ether	10	ND
Bromoform	5	ND
1,1,2,2-Tetrachloroethane	5	ND
Tetrachloroethene	5	ND
Toluene	5	ND
Chlorobenzene	5	ND
EthylBenzene	5	ND
Hazardous Substance List Compounds:		
Acetone	20	ND
Carbon Disulfide	10	ND
2-Butanone	20	ND
Vinyl Acetate	10	ND
4-Methyl-2-Pentanone	5	ND
2-Hexanone	5	ND
Styrene	5	ND
Total Xylenes	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: 95%	76-114%	70-121%
Toluene-D8: 99%	88-110%	81-117%
p-Bromofluorobenzene: 101%	86-115%	74-121%

Client: Clean Harbors of Connecticut

CHAS Lab #: 9003140

BLANK ANALYSIS

METALS

Parameter	MDL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Arsenic - EP Toxicity (1)	0.2	ND	03/26/90	03/27/90	3010/6010(c)
Barium - EP Toxicity (1)	0.05	ND	03/26/90	03/27/90	3010/6010(c)
Cadmium - EP Toxicity (1)	0.005	0.022	03/26/90	03/27/90	3010/6010(c)
Chromium - EP Toxicity (1)	0.01	0.02	03/26/90	03/27/90	3010/6010(c)
Lead - EP Toxicity (1)	0.1	ND	03/26/90	03/27/90	3010/6010(c)
Mercury - EP Toxicity (1)	0.0002	ND	03/26/90	03/27/90	7470(c)
Selenium - EP Toxicity (1)	0.2	ND	03/26/90	03/27/90	3010/6010(c)
Silver - EP Toxicity (1)	0.02	ND	03/26/90	03/27/90	3005/6010(c)

Sample extracted on 03/22/90

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).

Client: Clean Harbors of Connecticut

CHAS Lab #: 9003140

Polychlorinated Biphenyls (PCB's) Blank

By EPA Method 3540/8080 (ref. c)

Extraction Date: 03/20/90
Analysis Date: 02/23/90

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 94.0%

Client: Clean Harbors of Connecticut

CHAS Lab #: 9003140

BLANK ANALYSIS

Parameter	MDL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Total Oil & Grease by IR	10	ND	03/16/90	03/19/90	503D/503B (b)
Petroleum Hydrocarbon Oil & Grease by IR	10	ND	03/16/90	03/19/90	503D/503E,B (b)

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

CleanHarbors

3-15-90 PDGM

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

Client: CHI-CT Project Name: USARC Project/P.O. #: C-39966 Date: 3.14.90

Report To: DAVE GWOREK Address: NEW HAVEN, CT. Phone #:

Invoice To: CHI-CT Address:

Date Samples Collected: MAR. 13, 1990 by: D.G. GAILOR Date Samples Received: 3-15-90

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: TPH	BTEX	8240	EP TOX & METAL	PCB						# of con.	Comments (Special instructions, cautions, etc.)	CHAS Sample # 3/15/90 9003140
EXCAVATION 6-1	3/13	AM	@13'	SOIL	X	X	X	X							4		01C, A, E, N

611367

Relinquished by: [signature] Date: 3/15/90 Time: 6:55AM

Received by: [signature] Date: 3/15/90 Time: 10:00am

Relinquished by: Date: Time:

Received by: Date: Time:

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)

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: R3, 10A

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

CHI 119

Technical Report
Underground Storage Tank Closure
1,000 Gallon Waste Oil
UST No. 0064
United States Army Reserve Center
200 Wintergreen Avenue
New Haven, 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: Mr. Steve Dijack,
Contracting Officer

December 3, 1993

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

Solid & Hazardous Waste Site Assessments
Remedial Design & Construction
Underground Tank Management
Asbestos Surveys & Analysis
Hydrogeologic Investigations & Monitoring
Analytical Testing / Chemistry
Industrial Hygiene / Hazard Communication
Environmental Audits & Permitting
Exploratory Drilling & Monitoring Wells

December 3, 1993

Mr. Steven Dijack, Contracting Officer
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. 0064
United States Army Reserve Center
200 Wintergreen Avenue
New Haven, Connecticut
ATEC File: 37.07.91.0451

Ms. Dijack:

Attached is a report by ATEC Associates, Inc. (ATEC), detailing the closure of one underground storage tank (UST) referenced as UST No. 0064, located at the United States Army Reserve Center, 200 Wintergreen Avenue, New Haven, 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, U.S. 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.

Jeffrey E. Picard
Environmental Scientist II

James B. O'Brien
Division Manager

Ronald Lawson
Officer & District Manager

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TECHNICAL REPORT

UST No. 0064

United States Army Reserve Center

200 Wintergreen Avenue

New Haven, Connecticut

ATEC Project No. 37.07.91.00451

1.0 INTRODUCTION

This Technical Report details the results of the closure of one 1,000 gallon, single wall, steel, underground storage tank (UST) referenced as UST No. 0064, located at the United States Army Reserve Center, 200 Wintergreen Avenue, New Haven, Connecticut (the site). This Technical Report covers work conducted under Contract No. DAKF31-91-D-0015 as part of 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 (USEPA Method 418.1).

- Backfill and surface restoration

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

2.0 UST No. 0064

2.1 POST REMOVAL REPORT

2.1.1 Introduction

This Post-Removal Report details the results of the closure of one 1,000-gallon, single wall, steel, underground storage tank (UST) referenced as UST No. 0064, located at property known as the United States Army Reserve Center, 200 Wintergreen Avenue, New Haven, Connecticut (the site). 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:

- 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 UST by appropriately licensed contractors/facilities.

- Disposal of residual UST materials at a licensed facility.

- Field screening and analysis of soil from the excavation by Photoionization Detector (PID) and field analyzed with a portable Non-Dispersive Infrared (NDIR) Analyzer, to identify a potential 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.

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

2.1.2 Subsurface Storage Tank Excavation and Removal

On December 5, 1991, one 1,000 gallon, underground, waste oil, storage tank was excavated and removed from the site. The UST was located near southwest corner of the maintenance garage (see Figure 2.1, UST Location Plan). Site topography is sloped gently downgradient to the southwest.

The tank was covered by approximately 1 foot of soil. Soils in the excavation consisted primarily of medium brown, silty, fine sand. The bottom of the excavation was approximately 5 feet below grade. Groundwater was not encountered. No visible contamination of soil was observed.

Associated piping was drained, and tank connections were removed. UST No. 0064 was estimated to contain 160 gallons of waste oil. The waste oil was removed on December 5, 1991, and transported to Cyn Oil Corporation in Stoughton, Massachusetts, a licensed T.S.D.F. CYN Oil Corporation was on-site for the removal process and removed all the waste oil within the UST. Therefore, no additional drums of sludge material were generated. A hazardous waste manifest was prepared prior to transportation and is included in Section 2.10. 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. The tank was tipped to allow any remaining waste oil to flow to one side of the tank. The remaining tanks contents were pumped by Cyn Oil Corporation. It was then entered and observed to be free of residual product.

The scrap tank was removed from the site on December 6, 1991 and disposed at Alderman and Dow, located in New Haven, Connecticut.

2.1.3 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 Volatile Organic Compound (VOC) 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 2 to 4 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 5 feet below grade. Sampling locations for the excavation are depicted on the Sampling Schematic, as Figure 2.2.

Two 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 Method 418.1 . Sampling locations are depicted on the Sampling Schematic attached as Figure 2. Chain of custody forms are included in Appendix E.

2.1.4 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	0.2	46.6
SS-2	0.6	51.9
SS-3	0.4	28.1
SS-4	0.4	13.8
SS-5	0.2	32.1
SS-6	0.2	N.D.
SS-7	0.4	49.0
SS-8	0.6	14.3
SS-9	0.2	54.1
SS-10	0.2	54.1

N.D. = None Detected
ppm = parts per million
TOV = Total Organic Vapors
TPH = Total Petroleum Hydrocarbons

Laboratory analytical results of the two soil samples obtained from the bottom of the excavation revealed 18 ppm TPH for LSS-1 and 12 ppm TPH for LSS-2 (Appendix D).

Two samples of the residual tank materials (Wos-1 and Wos-2) were analyzed for Volatile Organic Compounds (VOCs) utilizing USEPA Method 8010/8020; Semivolatile Organic Compounds utilizing USEPA Method 8270; 13 Metals by TCLP utilizing USEPA Method 6010; Polychorinated Biphenyls (PCBs) utilizing USEPA Method 8080; Flashpoint utilizing USEPA Method 1010; and Corrosivity utilizing USEPA Method 9045.

Laboratory analytical results of tank contents revealed the following concentrations of VOC: 7,450 parts per billion (ppb) Ethylbenzene, 18,500 ppb Toluene, and 18,000 ppb Total Xylenes. Analytical results for Semivolatile Organic Compounds revealed 430 ppm Naphthalene; 113 ppm Bis(2-ethylhexyl)phtalate, 600 ppm 2-Methylnapthalene. Analytical results for 13 Metals by TCLP revealed 0.4 ppm Lead, 0.06 ppm Nickel, and 0.81 ppm Zinc. No PCBs were detected. The Flashpoint was >200°F, and a pH of 6.0.

2.1.5 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 ranged from 0.2 ppm to 0.6 ppm. NDIR results ranged from 0.0 ppm to 54.1 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 18 ppm TPH. Analytical results for LSS-2 obtained from the bottom of the excavation revealed 12 ppm TPH.

ATEC's recommendations are as follows:

Drill and install one groundwater monitoring well to evaluate soil and groundwater conditions beneath the UST excavation.

2.2 Site Remediation and Contaminated Soil Disposal

2.2.1 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 Removal 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. 0064.

2.2.2 Soil Stratigraphy

Because remediation was not performed at this site, a stratigraphic soil section was not required under contract. See section 2.1.2 for soil description.

2.2.3 Contaminated Soil Disposal

Contaminated soil disposal was not required for UST No. 0064.

2.3 Hydrogeological Services

Hydrogeological services were not performed relative to UST No. 0064.

2.4 Backfill

On December 6, 1992, approximately 50 tons (31 cubic yards) of soil was used to fill the excavation associated with the removal of UST No. 0064. Backfill material consisted of 26 cubic yards of native soil which was excavated to free the tank and 5 cubic yards of bank run sand. Bank run sand 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.

2.5 Surface Restoration

Approximately 140 square of turf restoration was completed at this site.

2.6 PHOTOGRAPHIC DOCUMENTATION

U.S. Army Reserve Center, New Haven, Connecticut

ATEC File No. 37.07.91.00451

A-1: One side of removed tank.

A-2: Opposite side of removed tank.

A-3: Excavation as viewed from north, facing south.

A-4: Excavation as viewed from south, facing north.

A-1

A-2

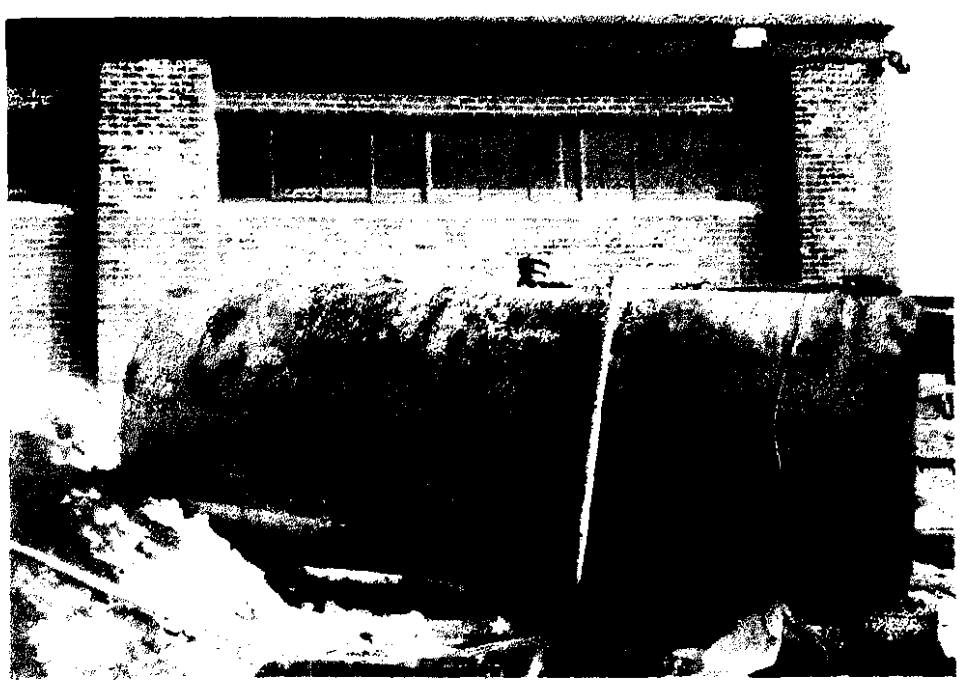
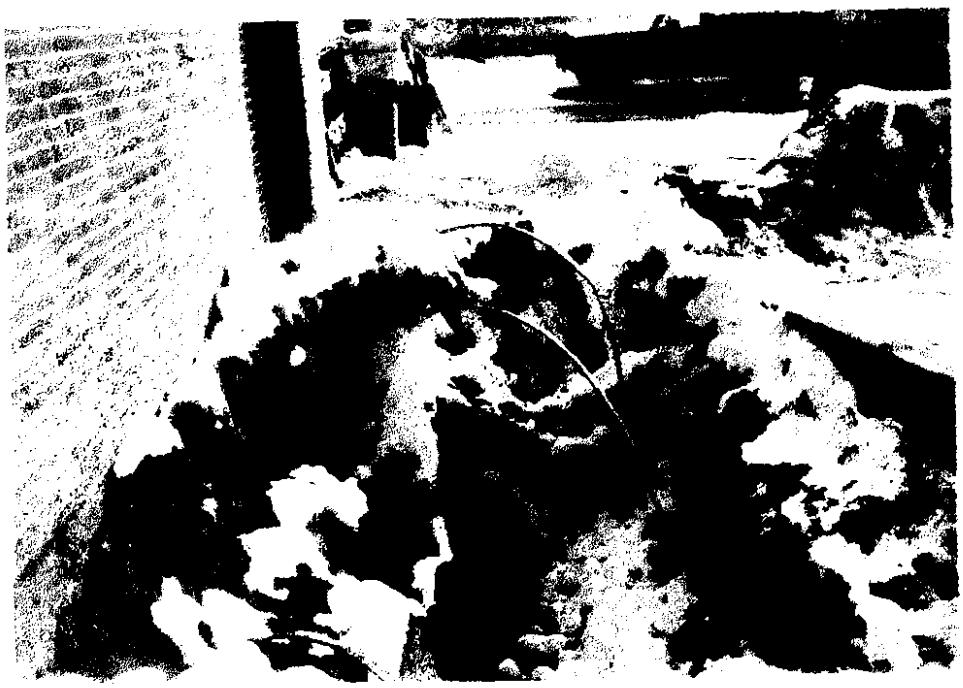


PHOTO DOCUMENTATION 1,000 gallon UST excavation at: US Army Reserve Center New Haven, Connecticut	PROJECT: 37.04.483	ATEC

A-3



A-4

PHOTO DOCUMENTATION

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

PROJECT: 37.04.483

ATEC

2.7 OCMA 220 DATA SHEETS

The following information was organized from the data collected from the Non-Dispersive Infrared Analyzer.

OCMA Data Sheet

Operator Name: Baldi Date: 12/18 EBI Project Number: 483

Calibration

	First Reading Initial	First Reading Final	Second Reading Initial	Second Reading Final	Third Reading Initial	Third Reading Final
Zero Calibration	3:2	0.0	-0.6	0.0	-0.1	0.0
Span Calibration	41.6	40.0	44.5	40.0	32.2	40.0
Zero Calibration	-0.2	0.0	-0.6	0.0	-0.0	0.0

Span Check: 24.4

Testing

New Haven Tank #64

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	85.0	76.2	20 ml	5 ml	15 ml	5 ml	0.7	2.5	2.0	46.6
SS-2	81.1	74.4	20 ml	5 ml	20 ml	5 ml	1.5	1.7	1.7	51.9
SS-3	83.3	73.1	17.5 ml	3 ml	17.5 ml	3 ml	2.1	1.4	1.4	29.1
SS-4	82.4	75.0	17.5	3 ml	17.5 ml	3 ml	0.5	0.5		13.8
SS-5	84.0	75.7	17.5	3 ml	17.5 ml	3 ml	1.0	1.3	1.3	32.1
SS-6	82.8	74.3	17.5	3 ml	17.5 ml	3 ml	1.2	0.0	0.0	0.0
SS-7	84.2	74.6	17.5 ml	3 ml	17.5 ml	3 ml	1.4	2.0	2.3	49.0
SS-8	83.2	74.5	17.5 ml	3 ml	17.5 ml	3 ml	0.7	0.5	0.6	14.3
SS-9	80.3	73.1	17.5 ml	3 ml	17.5 ml	3 ml	1.0	1.5	1.9	54.1
SS-10	81.9	74.7	17.5 ml	3 ml	17.5 ml	3 ml	1.8	2.0	1.9	54.1

2.8 LABORATORY REPORTS

The following laboratory analytical reports are associated with the removal excavation and stockpiled soil. These reports were organized and provided by Environmental Science Services, Inc. Results are included for the following.

In Response To The Future

CERTIFICATE OF ANALYSIS

Date: 1/30/92 Job: 5593
Account: 95659
Received: 12/13/91

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

Project: NEW HAVEN

Attn: Mr. Mark Baldi

Sample Number	Method Number	Parameter	Result	Unit	Sample Description
91559301	EPA-418.1	TPH/IR(Dry Wt.)	18	mg/Kg	LSS1
	EPA-160.3	Total Solids	86	%	
91559302	EPA-418.1	TPH/IR(Dry Wt.)	12	mg/Kg	LSS2
	EPA-160.3	Total Solids	86	%	
91559303	SW-846 1010	Flash Point	>200	'F	WOS-1
	SW-846 9045	pH	6.0	.	
	SW-846 8010/8020	Volatiles	Attached	.	
	EPA-8270	Semi Volatiles	Attached	.	
	TCLP	Inorganics	Attached	.	
91559304	SW-846 8080	PCBs	Attached	.	WOS-2

David Dickinson
Laboratory Manager

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

In Response To The Future

CERTIFICATE OF ANALYSIS

Polychlorinated Biphenyls

ESS SAMPLE ID: 91559304
CLIENT SAMPLE ID: WOS-2

ESS PROJECT ID: 5593
CLIENT PROJECT ID: New Haven

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

David Dickinson
Laboratory Manager

Note: ND=None Detected

In Response To The Future

CERTIFICATE OF ANALYSIS

EPA Method 8010/8020

:SS SAMPLE ID: 91559303
:LIENT SAMPLE ID: WOS-1

ESS PROJECT ID: 5593
CLIENT PROJECT ID: New Haven

'olatile Halogenated Organics	RESULT	METHOD REPORTING LIMIT	
Bromodichloromethane	ND	500	ug/Kg
3romoform	ND	500	ug/Kg
3romomethane	ND	500	ug/Kg
Carbon tetrachloride	ND	500	ug/Kg
:hlorobenzene	ND	500	ug/Kg
:hloroethane	ND	500	ug/Kg
2-Chloroethylvinyl ether	ND	500	ug/Kg
'hloroform	ND	500	ug/Kg
:hloromethane	ND	500	ug/Kg
Dibromochloromethane	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-Dichloroethane	ND	500	ug/Kg
,2-Dichloroethane	ND	500	ug/Kg
1,1-Dichloroethene	ND	500	ug/Kg
trans-1,2-Dichloroethene	ND	500	ug/Kg
,2-Dichloropropane	ND	500	ug/Kg
cis-1,3-Dichloropropene	ND	500	ug/Kg
trans-1,3-Dichloropropene	ND	500	ug/Kg
Methylene Chloride	ND	500	ug/Kg
,1,2,2-Tetrachloroethane	ND	500	ug/Kg
Tetrachloroethene	ND	500	ug/Kg
,1,1-Trichloroethane	ND	500	ug/Kg
,1,2-Trichloroethane	ND	500	ug/Kg
Trichloroethene	ND	500	ug/Kg
Trichlorofluoromethane	ND	500	ug/Kg
'inyl Chloride	ND	500	ug/Kg
Benzene	ND	500	ug/Kg
Ethylbenzene	7450	500	ug/Kg
:oluene	18500	500	ug/Kg
Total Xylenes	18000	500	ug/Kg

David Dickinson
Laboratory Manager

NOTE: ND=None Detected above method reporting limit.

In Response To The Future

CERTIFICATE OF ANALYSIS

TCL ACID EXTRACTABLES-EPA METHOD 8270

SS SAMPLE ID: 91559303
LIENT SAMPLE ID: WOS-1

ESS PROJECT ID: 5593
CLIENT PROJECT ID: New Haven

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

ESS SAMPLE ID: 91559303
CLIENT SAMPLE ID: WOS-1

ESS PROJECT ID: 5593
CLIENT PROJECT ID: New Haven

Parameter	Sample Concentration	Method Reporting Limit	
Acenaphthylene	ND	25	mg/Kg
1,2,4-Trichlorobenzene	ND	25	mg/Kg
Hexachlorobenzene	ND	25	mg/Kg
Bis(2-chloroethyl)ether	ND	25	mg/Kg
2-Chloronaphthalene	ND	25	mg/Kg
1,2-Dichlorobenzene	ND	25	mg/Kg
1,3-Dichlorobenzene	ND	25	mg/Kg
1,4-Dichlorobenzene	ND	25	mg/Kg
3,3-Dichlorobenzidine	ND	50	mg/Kg
2,4-Dinitrotoluene	ND	25	mg/Kg
2,6-Dinitrotoluene	ND	25	mg/Kg
Fluoranthene	ND	25	mg/Kg
4-Chlorophenyl phenyl ether	ND	25	mg/Kg
Bis(2-chloroisopropyl) ether	ND	25	mg/Kg
Bis(2-chloroethoxy) methane	ND	25	mg/Kg
Hexachlorobutadiene	ND	25	mg/Kg
Hexachlorocyclopentadiene	ND	25	mg/Kg
Isophorone	ND	25	mg/Kg
Naphthalene	430	25	mg/Kg
Nitrobenzene	ND	25	mg/Kg
N-nitrosodiphenylamine	ND	25	mg/Kg
N-nitrosodi-n-propylamine	ND	25	mg/Kg
Bis(2-ethylhexyl)phthalate	113	25	mg/Kg
Di-n-butylphthalate	ND	25	mg/Kg
Di-n-octylphthalate	ND	25	mg/Kg
Diethyl phthalate	ND	25	mg/Kg
Dimethyl phthalate	ND	25	mg/Kg
Benzo(a)anthracene	ND	25	mg/Kg
Benzo(a)pyrene	ND	25	mg/Kg
Benzo(b)fluoranthene	ND	25	mg/Kg
Benzo(k)fluoranthene	ND	25	mg/Kg
Chrysene	ND	25	mg/Kg
Acenaphthene	ND	25	mg/Kg
Anthracene	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.

In Response To The Future

CERTIFICATE OF ANALYSIS

TCL BASE NEUTRAL EXTRACTABLES-EPA METHOD 8270 cont.

ESS SAMPLE ID: 91559303
CLIENT SAMPLE ID: WOS-1

ESS PROJECT ID: 5593
CLIENT PROJECT ID: New Haven

Parameter	Sample Concentration	Method Reporting Limit
enzo(ghi)perylene	ND	25 mg/Kg
luorene	ND	25 mg/Kg
Phenanthrene	ND	25 mg/Kg
ibenzo(a,h)anthracene	ND	25 mg/Kg
deno(1,2,3-cd)pyrene	ND	25 mg/Kg
Pyrene	ND	25 mg/Kg
exachloroethane	ND	25 mg/Kg
-Bromophenyl-phenylether	ND	25 mg/Kg
Benzyl Alcohol	ND	25 mg/Kg
Benzoic Acid	ND	125 mg/Kg
is(2-Chloroethoxy)methane	ND	25 mg/Kg
-Chloroaniline	ND	25 mg/Kg
2-Methylnaphthalene	600	25 mg/Kg
-Nitroaniline	ND	125 mg/Kg
-Nitroaniline	ND	25 mg/Kg
Dibenzofuran	ND	25 mg/Kg
-Nitroaniline	ND	125 mg/Kg
utylbenzylphthalate	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

SS SAMPLE ID: 91559303
LIENT SAMPLE ID: WOS-1

ESS PROJECT ID: 5593
CLIENT PROJECT ID: New Haven

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	0.4	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	0.06	mg/L	N.A.	
Thallium	<0.1	mg/L	N.A.	
Zinc	0.81	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	78%
Barium	110%
Cadmium	110%
Chromium	90%
Lead	120%
Mercury	108%
Selenium	125%
Silver	75%
Nickel	110%
Thallium	100%
Zinc	110%
Copper	105%
Antimony	115%
Beryllium	90%

* 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.

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

nvironmental Science Services
522 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

2.9 CHAIN OF CUSTODY FORMS

The following chain of custody forms were produced for the soil samples and waste oil sample which were laboratory analyzed.

CHAIN OF CUSTODY RECORD

PROJ. NO. 37.07.483

PROJECT NAME US ARMY MULTI-SITE NEW HAVEN, CT

CLIENT US ARMY

LAB PROJ. NO.

SAMPLERS: (Signature) James M. Ryan

SAMPLING METHOD GRAB

LABORATORY ANALYSIS

SAMPLE I.D. NO.	DATE	TIME	COMPOSITE	GRAB	WATER	SOIL	WASTE OIL	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 / IR (418.1)	8 RCRA TCLP METALS	SAMPLE LOCATION / REMARKS
L551	12/6/91	11:00		X		X				X		1									X		SEE SCHEM
L552	"	"		X		X				X		1									X		" "
W051	"	"		X			X			X		1										X	" "
W052	"	"		X			X			X		1					X						" "

Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature)

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

ATEC Environmental Consultants
Division of ATEC Associates, Inc.
62 Accord Park Drive
Norwell, MA 02061
(617) 878-6200

2.10 HAZARDOUS WASTE MANIFEST

The following Hazardous Waste Manifest was generated from tank contents and residual tank materials.

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. MAR000215458 — Manifest Document No. 013013

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, 200 WINTERGREEN AV, NEW HAVEN, CT 06515

4. Generator's Phone: 203 387-2546

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

Not Required — Phone: 617 344-0265

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	1160	G
b.				
c.				
d.				

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

K. Handling Codes for Wastes Listed Above: a. D80 b.

15. Special Handling Instructions and Additional Information: 24 hr Contact 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.

Printed/Typed Name: VINCENT R. PANTERA — Signature: [signature] — Date: Month 12 Day 05 Year 91

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Richard Hartt — Signature: [signature] — Date: Month 12 Day 05 Year 91

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: [illegible] — Signature: [signature] — Date: Month Day Year

GENERATOR

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

Form Approved OMB No. 2050-0039, Expires 9-30-91

[illegible] additional sheets are obsolete

2.11 WEIGHT DISPOSAL RECEIPTS & BILLS OF LADING

Weight disposal receipts and bills of lading were not applicable for this removal.

2.12 PERMITS AND CERTIFICATIONS

The following permit was obtained from the Connecticut Department of Environmental Protection for the proper closure of the UST.

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.

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

SITE I.D.

3. A B

D. GRID COORDINATES X ____ Y ____

LOCATION OF FACILITY	SITE NAME: NEW HAVEN USAR CENTER	NO. AND STREET: 200 WINTERGREEN	NEAREST INTERSECTING STREET: FITCH ST.	CITY OR TOWN: NEW HAVEN
BUSINESS NAME AND MAILING ADDRESS	NAME: NEW HAVEN USAR CENTER	NO. AND STREET: 200 WINTERGREEN AVE.		CITY OR TOWN: NEW HAVEN
FACILITY OWNER	NAME: US ARMY	NO. AND STREET: HQ FORT DEVENS		CITY OR TOWN: FORT DEVENS
TYPE OF OWNER	[ ] PRIVATE [ ] STATE [ ] MUNICIPAL [X] FEDERAL (G.S.A. No. ____).			
OPERATOR/CONTACT PERSON	NAME: VINCENT PANTERA	NO. AND STREET: 200 WINTERGREEN AVE.		CITY OR TOWN: NEW HAVEN

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 E)	17. INTEGRITY OF PIPING SYSTEM: CONSTRUCTION AND PROTECTION (See list A-E)
nple	5/75	30	5000	X					X		Heating fuel #2		X			X				H	5
nple	7/60	-	8000				X	8/78		X	1,1,1- Trichloroethane CAS #79016	X				X				E	7
-1			1000			PURGED	X	12/91			WASTE OIL										

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. T

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

2.13 UST CLOSURE CHECKLIST

UST CLOSURE O/C CHECK LIST	UST REMOVAL	#64 NEW HAVEN CT.	USARC 1000 GAL. W.O.
	CONST - DL, BA	CONSUL. - JMB	
DEFINABLE FEATURE	DATE	TIME	MEASUREMENTS	NOTES
Calibrate PID & LEL/O2 meters	12/6/91	10:15		
Drain & flush piping & pumps	12/6/91	10:30	Removed Remote Fill + Basin	
			Removed Vent Line	
Excavate to top of tank				
Vent tank note LEL/O2 levels & times			LEL O2	
		T1:		
		T2:		
		T3:		
		T4:		
		T5:		
		T6:		
		T7:		
		T8:		
		T9:		
		T10:		
		T11:		
		T12:		
Pump & clean tank:	12/5/91		___ gal. liquid	
Note quantities liquid (gal) & sludge (lbs)			___ lbs. sludge	
Remove all tank connections, and cap openings	12/5/91	15:00		
Excavate soils to free tank	12/5/91	15:30		
Segregate stained soils: Note PID readings			PID (ppm) NDIR (ppm)	
(if >10 ppm NDIR also)			— →	SEE SCHEMATIC

UST CLOSURE Q/C CHECK LIST				
DEFINABLE FEATURE	DATE	TIME	MEASUREMENTS	NOTES
Remove tank, piping, pumps, and hardware.	12/6/91		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	12/6/91			
Secure tanks transport off-site	12/6/91	11:00	TRANSPORTED TO SCRAP YARD	
Obtain 10 soil samples from			PID (ppm) NDIR (ppm)	Sample locations:
excavation walls/bottom: Note PID/NDIR			SS1:	SEE SCHEMATIC
readings and sample locations.			SS2:	" "
			SS3:	" "
			SS4:	" "
			SS5:	" "
			SS6:	" "
			SS7:	" "
			SS8:	" "
			SS9:	" "
			SS10:	" "
Obtain 2 soil samples & 1 water samples				Sample Locations:
for laboratory analysis. Note sample locations.				LSS1: SEE SCHEMATIC
				LSS2: " "
				LWS1: NO WATER ENCOUNTERED

UST CLOSURE Q/C CHECK LIST				
DEFINABLE FEATURE	DATE	TIME	MEASUREMENTS	NOTES
				7½ tons of backfill
Backfill excavation (if clean):	12/6/91	13:30	13X7	Backfill description:
Note amount & type of backfill	12/6/91	13:45	7½ Ton Fill	
Close open excavation (if applicable)	12/6/91	"		
Restore surface and rope off	12/6/91	14:30		
Remove rubbish/debris				
Transport hazardous material off-site:				Amount Classification
Note amount/classification				

2.14 INSTALLATIONS

ATEC did not install a UST at this site.

ATEC Promises

- 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.
- To perform all assignments for a reasonable fee and within budget.
- To communicate with our clients frequently so there will be no surprises.
- To complete our assignments and deliver reports when promised.
- To review reports with our clients to be sure there are no misunderstandings.
- To deliver accurate invoices to our clients within seven (7) days after the completion of the assignment or as required by the clients.
- To follow up with the clients to be sure services completely satisfied their wants and needs.

ATEC Associates, Inc.
Corporate Headquarters
8665 Bash Street
Indianapolis, IN 46256-1202
(317) 577-1761

At ATEC, "Client satisfaction with a constant sense of urgency" is our goal. If you have concerns with an ATEC project or service that your local ATEC Representative has not resolved, please call 1-800-800-ATEC, a "hot line" to my office. We will do everything possible to satisfy your concerns. If you have received quality service, we would appreciate knowing that as well. Thank you for allowing us to work on your team.

Sincerely,

Gerald D. Mann
President
ATEC Associates, Inc.

Corporate Headquarters - Client Satisfaction Hot Line
1-800-800-ATEC
(800-800-2832)

VISIT
ON 23 JAN 95

DEPARTMENT OF THE ARMY
THE QUARTERMASTER PETROLEUM COMPANY (SUPPLY)
200 WINTERGREEN AVENUE, NEW HAVEN, CT 06515-1096

BIO SPILL KIT, OPW MODS FOR PATCH
BRING SMALL LOCKER

(58) 15 Jan 95

NSN- 6840-01-270-1316

MEMORANDUM FOR Cdr, 94th ARCOM, ATTN: Frank Wilmot,
FABRIC TREATMENT, TEM AREA 695 Sherman Ave, Fort Devens, MA 01433-4000

CHECK W/ 100 SUBJECT: Environmental Inspection
ABOUT AEROSOL
BUG SPRAY 230 CANTONS

1. In response to the findings of your site inspection conducted 27 Dec 94 the 439th QM Petrl Co (Sup) is requesting guidance and assistance in correcting the noted deficiencies.

PERHAPS 500 GALLONS OF FUEL

2. It is our understanding that we are not to move the DS-2 and STB currently stored in the HAZMAT Building. We need guidance as to when this material is to be removed and what the unit's role will be in that activity.

THEY CAN'T USE OVER, BUT IT'S CLEAN

3. The Flammable material cabinet, and drip pans will be removed prior to 21 Jan 95

MARINE DISPL IN 2 BY SHED

4. In reviewing the comments contained in your memo the 439th has uncovered another serious issue that we need your assistance and guidance in resolving. Adjacent to the HAZMAT Building there are two (2) fuel bladders that still contain residual fuel (perhaps as much as 30 gallons.) These bladders have been stored in such a manner that it is questionable weather or not the material has deteriorated (gelled) and it is our belief that the bladders cannot be safely moved. Due to the seriousness of a potential spill we request that your office inspect these items and advise and assist us in removing this hazard.

~~VALVE~~ OVER TO 3rd BAG ON "COFFDS"

NEED MODEL POC, MUST IN ROAN LOT TO AS

5. POC on this issue is either Mr Frank Verdone or SGT Merry (203) 389-7945/6. I can be contacted at either (203) 383-3941 or (203) 755-8537.

SSGT HAGINS - 389-7948

THEY HAVE OVER SYSTEM - 27 WEEKS

CLIFFORD K. CRAWFORD
CPT, FA, USAR
Commanding

CF:
Cdr, 395th S&S Bn
Cdr, 167th Sup Grp

CT007
SGT GEORGE D. LIBBY USARC
New Haven, 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

M950217CT007

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 #: CT007 Center Name: SGT George D. Libby USARC

Address: 200 Wintergreen Avenue City: New Haven State: CT

Site Point of Contact: Sergeant James Ng Date of Survey: 26 April 1994

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

2. Potential Regulatory Compliance Violations:
a. The plans reflect an Underground Injection Chamber Number 1 (UIC-1) west of the OMS building. No signs of UIC-1 exist on the surface of the ground because it is covered by pavement. The OMS building is currently only used for dry storage. Floor Drain Number 1 (FD-1) is in the supply room of the OMS but currently drains to the pavement outside the OMS. Plans show FD-1 to drain to UIC-1 and there is no information regarding when FD-1 was disconnected from UIC-1. While the USARC is apparently currently meeting all the applicable environmental requirements, the fact that there may be (or was in the past) a UIC associated with a maintenance facility would probably draw the attention and suspicions of any regulator since UIC's associated with a maintenance facility are an environmental (UIC) violation in Connecticut and must be closed out. A further study should be made to determine if, in fact, UIC-1 was ever installed and connected to FD-1. If UIC-1 did exist, it should be closed out.

3. Recommended Actions to Improve Environmental Practices:
a. There are several drums with oily material in the vicinity of the Wash Rack Number 1 (WR-1). At least one is open and catches rainwater and has overflowed. These drums should be properly disposed.
b. Oil/Water Separator Number 1 (OWS-1) is full of oil and needs to be cleaned. It is possible that OWS-1 is backing up into WR-1 because there is water in WR-1. It is possible that WR-1 may also need to be cleaned. Since neither WR-1 or OWS-1 appear on any available plans and because they had too much water in them, it was not possible to verify the drainage of OWS-1. OWS-1 is physically located in line with the sanitary sewer, so it is assumed to connect to the sanitary sewer.
c. There was a rusty colored liquid covering approximately 1/8 of the boiler room floor. The funnel portion of the Funnel Drain Number 1 (F-1) is missing, thus allowing the liquid to drain into F-1, as well as FD-5 and the sump. The sump is pumped into the sanitary sewer.

4. Potential Problems:
a. Storm Drains Number 3 and 4 (SD-3 and SD-4) are covered by some large crates and thus can not adequately drain the storm water. As a result the side of the hill upon which SD-3 and SD-4 are located is beginning to show signs of erosion.
b. FD-7 is not on any plans reviewed and it is further to the west in the USARC building than plans reviewed show that the sanitary sewer extends. It was not possible to determine where FD-7 discharges.

5. Uncompleted Inventory Items:

a. A further study should be made to determine if, in fact, UIC-1 and UIC-2 were ever installed. UIC-2 drains the meter pit and does not appear to present any environmental problem. If UIC-1 existed, it should be closed out.

b. When OWS-1 is cleaned, it should be checked to ensure that it drains into the sanitary sewer system.

c. The discharge of FD-7 into the sanitary sewer system needs to be confirmed.

6. Other Comments:

SD-1 and SD-2 drain through a headwall to a wooded area where it infiltrates into the ground. SD-3 and SD-4 (to the extent they collect storm water) also drains into the wooded area and infiltrates into the ground. SD-5 appears to be part of the municipal storm sewer system.

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. Complete property boundary was not shown on available plans.

b. The majority of the paved military parking area to the west of the OMS Building was not visible due to equipment and vehicle parking.

c. Site personnel reported that no maintenance is performed in OMS.

US ARMY RESERVE CENTER - DRAIN SURVEY

FACILITY ID#: CT007 CENTER NAME: SGT George D. Libby USARC ADDRESS: 200 Wintergreen Avenue

CITY: New Haven COUNTY: New Haven STATE: CT SURVEYED BY: W. Kidd, M. Healey - ENSR

COMMAND: 76th, 94th SITE CONTACT(S):(Name/Rank/Title) James Ng / Sergeant DATE OF SURVEY: 26 APR 94

WEATHER (Day 1 Heavy overcast, misty, high 40's (F.) Day 2 N/A)

REFERENCE SITE PLAN - TITLE: Shed - Motor Vehicle Storage - Outside Utilities Plan Dwg. No. 71 - 08 - 01

DRAWING DATE: 9 JUN 52 CONTRACTOR: Pedersen, Tilney, & Higgins SHEET NUMBER: 1 OF 1 OTHER: Spec. No. ENG-19-016-52-73

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	Supply room of OMS building.	CIU	OBS	SWN (1)	OBS	NONE		NONE	CND
FD - 2	Enlisted Mens Room.	CIU	OBS	SAN	OBS	NONE		JAN	IN
FD - 3	South end of boiler room.	CIU	OBS	SAN (2)	OBS	NONE		Rust colored water stains on floor, FLO.	IN
FD - 4	Outside, south of boiler room.	CIU	OBS	SAN (2)	OBS	NONE		NONE	IN
FD - 5	North end of boiler room.	CIU	OBS	SAN (2)	OBS	NONE		Rust colored water stains on floor, FLO.	IN
FD - 6	Basement Mens Room.	CIU	OBS	SAN	OBS	NONE		JAN	IN
FD - 7	Outside, west of USARC building.	CIU	OBS	UNK (3)	NOP	UNK		NONE	CND
STORM DRAINS									
SD - 1	North of OMS, in parking lot.	CIU	OBS	SWN	PNO	NONE		POL	IN
SD - 2	North of SD - 1.	CIU	OBS	SWN	PNO	NONE		POL	IN
SD - 3	Southwest of OMS building.	OTH (4)	PNO,REP	SWN	PNO	NONE		POL	CND
SD - 4	North of SD - 3.	OTH (4)	PNO,REP	SWN	PNO	NONE		POL	CND
SD - 5	North of USARC building.	CIU	OBS	UNK (5)	NOP	UNK		POL	CND

COMMENTS: (1) FD-1 is reported by site personnel to discharge onto the pavement outside the OMS. (2) FD-3, FD-4, FD-5, and F-1 drain into a sump in the boiler room. The sump is pumped into the municipal sanitary system. (3) FD-7 is not on any plans reviewed and is located beyond where the sanitary sewer lines are shown on plans. (4) Could not locate SD-3 and SD-4 at the site. There are large crates stored over the estimated location of the storm drains. (5) SD-5 was observed on the site, but did not appear on any reviewed plans.

US ARMY RESERVE CENTER - DRAIN SURVEY

FACILITY ID#: CT007 CENTER NAME: SGT George D. Libby USARC ADDRESS: 200 Wintergreen Avenue

CITY: New Haven COUNTY: New Haven STATE: CT SURVEYED BY: W. Kidd, M. Healey - ENSR

COMMAND: 76th, 94th SITE CONTACT(S):(Name/Rank/Title) James Ng / Sergeant DATE OF SURVEY: 26 APR 94

INDEX ON SITE PLAN	ROOM NUMBER/ LOCATION	DRAIN		OUTFALL		TREATMENT		POTENTIAL CONTAMINANTS	REGULATORY COMPLIANCE STATUS
		STATUS	VERIFIED	TYPE	VERIFIED	TYPE	STATUS		
WASH RACK									
WR - 1	Northwest of OMS building.	POT (6)	OBS	UNK	NOP	OWS-1	CIU	ANT,BAT,DES,FLO,GAS,OIL,POL,WOL	CND
UNDERGROUND INJECTION CHAMBERS									
UIC - 1	West of OMS building.	OTH (7)	PNO	DRY	PNO	UNK			POUT
UIC - 2	East of USARC building.	OTH (7)	PNO	DRY	PNO	UNK			CND
PRE-TREATMENT SYSTEMS									
GRT - 1	Kitchen (8)	CIU	OBS	UNK	NOP			JAN	IN
OWS - 1	Northwest of OMS building.	CIU	OBS	UNK (9)	NOP			ANT,BAT,DES,FLO,GAS,OIL,POL,WOL	CND
FUNNEL DRAINS									
F - 1	East end of boiler room.	CIU	OBS	SAN (2)	OBS	NONE		FLO (10)	IN

COMMENTS: (6) The wash rack is covered with a tarp and prevents any drainage from entering. Above the tarp on the wash rack is a flammable trailer tanker. There is also an open, topless, container (25 gallons +/-) filled with what looks like waste oil/POL and rain water. (7) UIC-1 and UIC-2 are shown on plans but could not be located in the field. UIC-1 may have drained FD-1 in the past, but no longer does. UIC-2 apparently drains the meter vault. (8) GRT-1 is not associated with any floor drains but is a pretreatment system for the kitchen sinks. (9) Although not on the plans, OWS-1 is positioned in line with the sanitary sewer line. OWS-1 needs maintenance. (10) The funnel drain is missing a funnel and collects floor drainage.

Explanations of report codes follow inventory sheets.

US ARMY RESERVE CENTER - DRAIN SURVEY
REPORTING CODE EXPLANATIONS

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.

FACILITY ID#: CT007 CENTER NAME: New Haven SGT George D. Libby USARC ADDRESS: 200 Wintergreen Avenue

CITY: New Haven COUNTY: New Haven STATE: CT SURVEYED BY: Jim Duncan – ENSR

COMMAND: 76th, 94th SITE CONTACT(S):(Name/Rank/Title) Sgt. Jim Ng DATE OF SURVEY: 27 JAN 94

WEATHER: (Day 1 22 deg. F – Cloudy. Day 2 NA

REFERENCE SITE PLAN – TITLE: Shed – Motor Vehicle Storage – Site Development Plan Dwg. No. 16–06–01

DRAWING DATE: 9JUNE1952 CONTRACTOR: Pedersen, Tilney & Higgins SHEET NUMBER: 1of1 OTHER: Organized Reserve Corps–Armory–1000 Man

Scale: 1' = 20"

A. FACILITIES/HABITATS	IMPROVED GROUNDS	SEMI–IMPROVED GROUNDS	UNIMPROVED GROUNDS	COMMENTS
Buildings and Paved Areas (ac)	2.21 acres	1.10 acres	\	A lot of gravel/stone/sand parking. Includes construction equipment storage area.
Grassed Areas (ac)	\	0.53 acres	\	Some grassy areas around fence.
Wooded Areas (ac)	\	\	1.96 acres	Significant lowland maple forest.
Water (ac)	\	\	\	
Total (ac) (5.8 acres)	2.21 acres	1.63 acres	1.96 acres	Some property outside fence.

B. Human Uses	COMMENTS
Scenic and Natural Areas	None on Center. Nearby forest and cliffs containing state protected species.
Aesthetic Values	None on Center.
Recreational Areas	Yes. Picnic table at Center.
Public Use	No.
Millitary Use Only	Yes

C. MANAGEMENT PLANS	None identified.

C.1 TIMBER Mgmt. Prog.	None identified.
Commercial Forest (ac)	Yes < 30 Commercial trees, mainly sugar maple, black cherry, and a few oaks.

C.2 Wildlife Mgmt. Prog.	None identified.
Hunting	None identified.
Fishing	None identified. Stream within 100 yards of fenceline that may support fish.

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

C.4 Grounds Maintenance	
Landscaping	None observed.
Prescribed Burning	Not used.
Weed Control	Subcontracted – (April to October), lawn maintenance, fence clearing by hand; no spraying.
Agricultural Activity	None observed.
Pest Control	Pesticides used for ant problem. A few mice reported in the past. No knowledge of gypsy moths or tent caperpillars.

FACILITY ID#: CT007 CENTER NAME: New Haven SGT George D. Libby USARC ADDRESS: 200 Wintergreen Avenue

CITY: New Haven COUNTY: New Haven STATE: CT SURVEYED BY: Jim Duncan – ENSR

COMMAND: 76th, 94th SITE CONTACT(S):(Name/Rank/Title) Sgt. Jim Ng DATE OF SURVEY: 27 JAN 94

D. NATURAL RESOURCES

D.1 Surface Water Bodies	Pond/Impoundment	Lake	River	Brook	Offsite Discharge
General Occurrence	\	\	\	\ Nearby	Parking lot runoff into woodland.
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	Yes	
State Protected Species	NONE IDENTIFIED IN THE 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	Yes	\	\	\	

D.4 Invertebates					
State Protected Species	NONE IDENTIFIED IN THE 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 THE 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	\	\	\	\	\	\	\	\

DATA COLLECTION AND REPORTING ISSUES

US ARMY RESERVE CENTER
NATURAL RESOURCE INVENTORY

US ARMY RESERVE CENTER – NATURAL RESOURCE INVENTORY
FACILITY ID#: CT007
CENTER NAME: New Haven, Connecticut – SGT George D. Libby 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 27 January 1994, precluding surveys for breeding birds and flowering plants.

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

3) New parking areas occur on the Center which are not shown in the base map.

4) The facility was covered with approximately 12 inches of snow during the inventory.

US ARMY RESERVE CENTERS
NATURAL RESOURCES SURVEY TABLES

FACILITY ID#: CT007
CENTER NAME: SGT GEORGE D. LIBBY USARC

TABLE OF CONTENTS

FILE NAME:

CT007NRM **DATA COLLECTION AND REPORTING ISSUES**

CT007NRS **SUMMARY TABLE** FOR ALL NATURAL RESOURCES

CT007NR1 **TABLE A1**-WILDLIFE AND VEGETATION SPECIES OBSERVED AND EXPECTED TO OCCUR ON THE USARC(EXPECTED BIRDS ARE ON TABLE A5).

CT007NR2 **TABLE A2**-FEDERAL AND STATE PROTECTED SPECIES POTENTIALLY OCCURRING ON THE USARC BASED ON DATA PROVIDED BY THE U.S.FISH AND WILDLIFE SERVICE(USFWS) AND STATE NATURAL HERITAGE PROGRAMS(NATURAL DIVERSITY DATA BASE) OR WILDLIFE AGENCIES.

CT007NR3 **TABLE A3**-STATE AND FEDERAL PROTECTED PLANT SPECIES POTENTIALLY OCCURRING ON THE USARC.

CT007NR4 **TABLE A4**- AMPHIBIANS AND REPTILES WHOSE RANGES INCLUDE THE USARC.

CT007NR5 **TABLE A5**- BREEDING BIRDS WHOSE RANGES INCLUDE THE USARC, INCLUDING POTENTIAL NESTING SPECIES.

CT007NR6 **TABLE A6**- MAMMALS WHOSE RANGES INCLUDE THE USARC.

CT007NRF **REFERENCES**

LETTER FROM THE STATE NATURAL HERITAGE PROGRAMS, INCLUDING RECORDS OF PROTECTED SPECIES ON OR NEAR THE USARC. INCLUDED IS A CURRENT(AS OF MARCH 1, 1994) LIST OF STATE PROTECTED PLANTS, INVERTEBRATES, AMPHIBIANS, REPTILES, MAMMALS, AND BIRDS.

LETTER FROM THE USFWS, INCLUDING A LIST OF PROTECTED PLANTS, INVERTEBRATES, AMPHIBIANS, REPTILES, MAMMALS, AND BIRDS THAT COULD POTENTIALLY OCCUR ON OR NEAR THE USARC.

FACILITY ID#: CT007 CENTER NAME: New Haven SGT George D. Libby USARC ADDRESS: 200 Wintergreen Avenue

CITY: New Haven COUNTY: New Haven STATE: CT SURVEYED BY: Jim Duncan – ENSR

COMMAND: 76th, 94th SITE CONTACT(S):(Name/Rank/Title) Sgt. Jim Ng DATE OF SURVEY: 27 JAN 94

WEATHER: (Day 1 22 deg. F – Cloudy. Day 2 NA

REFERENCE SITE PLAN – TITLE: Shed – Motor Vehicle Storage – Site Development Plan Dwg. No. 16–06–01

DRAWING DATE: 9JUNE1952 CONTRACTOR: Pedersen, Tilney & Higgins SHEET NUMBER: 1of1 OTHER: Organized Reserve Corps–Armory–1000 Man

Scale: 1' = 20"

A. FACILITIES/HABITATS	IMPROVED GROUNDS	SEMI–IMPROVED GROUNDS	UNIMPROVED GROUNDS	COMMENTS
Buildings and Paved Areas (ac)	2.21 acres	1.10 acres	\	A lot of gravel/stone/sand parking. Includes construction equipment storage area.
Grassed Areas (ac)	\	0.53 acres	\	Some grassy areas around fence.
Wooded Areas (ac)	\	\	1.96 acres	Significant lowland maple forest.
Water (ac)	\	\	\	
Total (ac) (5.8 acres)	2.21 acres	1.63 acres	1.96 acres	Some property outside fence.

B. Human Uses	COMMENTS
Scenic and Natural Areas	None on Center. Nearby forest and cliffs containing state protected species.
Aesthetic Values	None on Center.
Recreational Areas	Yes. Picnic table at Center.
Public Use	No.
Millitary Use Only	Yes

C. MANAGEMENT PLANS	None identified.

C.1 TIMBER Mgmt. Prog.	None Idenified.
Commercial Forest (ac)	Yes < 30 Commercial trees, mainly sugar maple, black cherry, and a few oaks.

C.2 Wildlife Mgmt. Prog.	None identified.
Hunting	None identified.
Fishing	None identified. Stream within 100 yards of fenceline that may support fish.

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

C.4 Grounds Maintenance	
Landscaping	None observed.
Prescribed Burning	Not used.
Weed Control	Subcontracted – (April to October), lawn maintenance, fence clearing by hand; no spraying.
Agricultural Activity	None observed.
Pest Control	Pesticides used for ant problem. A few mice reported in the past. No knowledge of gypsy moths or tent caperpillars.

FACILITY ID#: CT007 CENTER NAME: New Haven SGT George D. Libby USARC ADDRESS: 200 Wintergreen Avenue

CITY: New Haven COUNTY: New Haven STATE: CT SURVEYED BY: Jim Duncan – ENSR

COMMAND: 76th, 94th SITE CONTACT(S):(Name/Rank/Title) Sgt. Jim Ng DATE OF SURVEY: 27 JAN 94

D. NATURAL RESOURCES

D.1 Surface Water Bodies	Pond/Impoundment	Lake	River	Brook	Offsite Discharge
General Occurrence	\	\	\	\ Nearby	Parking lot runoff into woodland.
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	Yes	
State Protected Species	NONE IDENTIFIED IN THE 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	Yes	\	\	\	

D.4 Invertebates	
State Protected Species	NONE IDENTIFIED IN THE 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 THE 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#: CT007 CENTER NAME: New Haven SGT George D. Libby USARC ADDRESS: 200 Wintergreen Avenue

CITY: New Haven COUNTY: New Haven STATE: CT SURVEYED BY: Jim Duncan – ENSR

COMMAND: 76th, 94th SITE CONTACT(S):(Name/Rank/Title) Sgt. Jim Ng DATE OF SURVEY: 27 JAN 94

D.6 Reptiles and Amphibians	Salamanders	Frogs	Toads	Turtles	Lizards	Snakes
General Occurrence	SEE TABLE A1	SEE TABLE A1	SEE TABLE A1	Nearby	\	SEE TABLE A1
State Protected Species	NONE IDENTIFIED IN THE 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)	S SEE TABLE A5	H,O SEE TABLE A5	G,W SEE TABLE A5	SEE TABLE A5	SEE TABLE A5	
Nesting	S SEE TABLE A5	H,O SEE TABLE A5	G,W SEE TABLE A5	SEE TABLE A5	SEE TABLE A5	
Migration	S SEE TABLE A5	H SEE TABLE A5	W SEE TABLE A5	SEE TABLE A5	SEE TABLE A5	
Wintering	\	H,O SEE TABLE A5	G SEE TABLE A5	\	\	
State Protected Species	NONE IDENTIFIED IN THE 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	\	\	Not expected.	\	\	

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 THE 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).				

FACILITY ID#: CT007 CENTER NAME: New Haven SGT George D. Libby USARC ADDRESS: 200 Wintergreen Avenue

CITY: New Haven COUNTY: New Haven STATE: CT SURVEYED BY: Jim Duncan – ENSR

COMMAND: 76th, 94th SITE CONTACT(S):(Name/Rank/Title) Sgt. Jim Ng DATE OF SURVEY: 27 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,JM SEE TABLE A1	CN,R,W,SSEE TABLE A1	DEER ADJACENT
State Protected Species	NONE IDENTIFIED IN THE 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	\	\	\	CN,R,W,SSEE TABLE A1	\

D.9 OTHER PROTECTED SPECIES							
State Protected Species	NONE IDENTIFIED IN THE 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:

SUMMARY:

Natural woodlands–maple, cherry, oak, ash, locust. Some dense honeysuckle/greenbriar/grape thickets.
Salamander, frog, toad, and turtle breeding in nearby stream; some occurence on–site expected.
No ornamental or native species landscaping.
Part of Army Property used for construction equipment storage by Southern Connecticut University.

RECOMMENDATIONS:

Erect chickadee/nuthatch/wren/tree swallow nesting boxes in woodland(8 total).
Erect screech owl nesting boxes in woodland (2 total).
Erect American robin/house finch/barn swallow/eastern phoebe nesting platforms on Center buildings (12 total).
Erect gray squirrel nesting boxes in woodland (4 total).
Create on–site water supply from storm drain runoff.
Create openings and brush piles in woodland.
Plant native fruit–bearing shrubs and low trees around Center in lawn areas; also on slopes around other buildings and grassed slopes along edges of parking lots.

NOTE:CENTER IS NEAR WEST ROCK RIDGE WHICH HAS MANY STATE PROTECTED SPECIES IN THE "TRAPROCK RIDGE HABITAT". THIS UNIQUE GEOLOGIC FORMATION SUPPORTS SPECIES NOT FOUND IN SURROUNDING HABITATS.

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#: CT007 CENTER NAME: New Haven SGT George D. Libby USARC ADDRESS: 200 Wintergreen Avenue

CITY: New Haven COUNTY: New Haven STATE: CT SURVEYED BY: Jim Duncan – ENSR

COMMAND: 76th, 94th SITE CONTACT(S):(Name/Rank/Title) Sgt. Jim Ng DATE OF SURVEY: 27 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	4) RAPTORS	5) GAMEBIRDS	6) INSECTIVORES	7) RODENTS		8) CARNIVORES
Ocean/Marine = O/M	Hawks = H	Grouse = G	Shrews = S	Rabbits = R	Rats = RS	Canids = CN
Waterfowl = W	Owls = O	Quail = Q	Moles = M	Hares = H	Voles = V	Bears = B
Herons = H	Eagles = E	Pheasant = P		Beaver = B	Jumping mice = JM	Raccoon = R
Shorebirds = S		Turkey = T		Chipmunks = C		Weasels = W
		Woodcock = W		Squirrels = S		Skunks = S
				Mice = M		Cats = CT

FACILITY ID#: CT007 CENTER NAME: New Haven SGT George D. Libby USARC ADDRESS: 200 Wintergreen Avenue

CITY: New Haven COUNTY: New Haven STATE: CT SURVEYED BY: Jim Duncan – ENSR

COMMAND: 76th, 94th SITE CONTACT(S):(Name/Rank/Title) Sgt. Jim Ng DATE OF SURVEY: 27 JAN 94

D.6 Reptiles and Amphibians	Salamanders	Frogs	Toads	Turtles	Lizards	Snakes
General Occurrence	SEE TABLE A1	SEE TABLE A1	SEE TABLE A1	Nearby	\	SEE TABLE A1
State Protected Species	NONE IDENTIFIED IN THE 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)	S SEE TABLE A5	H,O SEE TABLE A5	G,W SEE TABLE A5	SEE TABLE A5	SEE TABLE A5	
Nesting	S SEE TABLE A5	H,O SEE TABLE A5	G,W SEE TABLE A5	SEE TABLE A5	SEE TABLE A5	
Migration	S SEE TABLE A5	H SEE TABLE A5	W SEE TABLE A5	SEE TABLE A5	SEE TABLE A5	
Wintering	\	H,O SEE TABLE A5	G SEE TABLE A5	\	\	
State Protected Species	NONE IDENTIFIED IN THE 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	\	\	Not expected.	\	\	

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 THE 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).				

FACILITY ID#: CT007 CENTER NAME: New Haven SGT George D. Libby USARC ADDRESS: 200 Wintergreen Avenue

CITY: New Haven COUNTY: New Haven STATE: CT SURVEYED BY: Jim Duncan – ENSR

COMMAND: 76th, 94th SITE CONTACT(S):(Name/Rank/Title) Sgt. Jim Ng DATE OF SURVEY: 27 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,JM SEE TABLE A1	CN,R,W,SSEE TABLE A1	DEER ADJACENT
State Protected Species	NONE IDENTIFIED IN THE 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	\	\	\	CN,R,W,SSEE TABLE A1	\

D.9 OTHER PROTECTED SPECIES							
State Protected Species	NONE IDENTIFIED IN THE 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:

SUMMARY:

Natural woodlands–maple, cherry, oak, ash, locust. Some dense honeysuckle/greenbriar/grape thickets.
Salamander, frog, toad, and turtle breeding in nearby stream; some occurence on–site expected.
No ornamental or native species landscaping.
Part of Army Property used for construction equipment storage by Southern Connecticut University.

RECOMMENDATIONS:

Erect chickadee/nuthatch/wren/tree swallow nesting boxes in woodland(8 total).
Erect screech owl nesting boxes in woodland (2 total).
Erect American robin/house finch/barn swallow/eastern phoebe nesting platforms on Center buildings (12 total).
Erect gray squirrel nesting boxes in woodland (4 total).
Create on–site water supply from storm drain runoff.
Create openings and brush piles in woodland.
Plant native fruit–bearing shrubs and low trees around Center in lawn areas; also on slopes around other buildings and grassed slopes along edges of parking lots.

NOTE:CENTER IS NEAR WEST ROCK RIDGE WHICH HAS MANY STATE PROTECTED SPECIES IN THE "TRAPROCK RIDGE HABITAT". THIS UNIQUE GEOLOGIC FORMATION SUPPORTS SPECIES NOT FOUND IN SURROUNDING HABITATS.

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#: CT007 CENTER NAME: New Haven SGT George D. Libby USARC ADDRESS: 200 Wintergreen Avenue

CITY: New Haven COUNTY: New Haven STATE: CT SURVEYED BY: Jim Duncan – ENSR

COMMAND: 76th, 94th SITE CONTACT(S):(Name/Rank/Title) Sgt. Jim Ng DATE OF SURVEY: 27 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	4) RAPTORS	5) GAMEBIRDS	6) INSECTIVORES	7) RODENTS		8) CARNIVORES
Ocean/Marine = O/M	Hawks = H	Grouse = G	Shrews = S	Rabbits = R	Rats = RS	Canids = CN
Waterfowl = W	Owls = O	Quail = Q	Moles = M	Hares = H	Voles = V	Bears = B
Herons = H	Eagles = E	Pheasant = P		Beaver = B	Jumping mice = JM	Raccoon = R
Shorebirds = S		Turkey = T		Chipmunks = C		Weasels = W
		Woodcock = W		Squirrels = S		Skunks = S
				Mice = M		Cats = CT

US ARMY RESERVE CENTER – NATURAL RESOURCES SURVEY

FACILITY ID#: CT007

CENTER NAME: New Haven, Connecticut–SGT George D. Libby USARC

SURVEYED BY: Jim Duncan ENSR

SURVEY DATE(S): 27 JANUARY 94

WILDLIFE SPECIES REPORTED: None

TABLE A1
WILDLIFE AND VEGETATION SPECIES OBSERVED AND EXPECTED TO OCCUR ON THE NEW HAVEN, CONNECTICUT USARC (1994)

WILDLIFE SPECIES OBSERVED

BIRDS	BIRDS	MAMMALS	AMPHIBIANS	REPTILES
Ring–billed gull(flyover)		Gray squirrel	NONE	NONE
Common crow		Gray fox		
European starling		White–footed mouse		
Black–capped chickadee				
Kinglet spp. ?				

WILDLIFE SPECIES EXPECTED

BIRDS	BIRDS	MAMMALS		AMPHIBIANS	REPTILES
SEE TABLE A5 FOR A LIST OF EXPECTED BIRDS.		Virginia opossum	Eastern gray squirrel	Jefferson salamander	Northern brown snake
		Common masked shrew	Southern flying squirrel	Silvery salamander	Northern ringneck snake
		Northern short–tailed shrew	White–footed mouse	Blue–spotted salamander	Black rat snake
		Eastern mole	Meadow vole	Tremblay's salamander	Eastern worm snake
		Star–nosed mole	House mouse	Marbled salamander	Eastern garter snake
		Little brown myotis	Meadow jumping mouse	Spotted salamander	Northern copperhead
		Keen's myotis	Woodland jumping mouse	Red spotted newt	
		Silver–haired bat	Red fox	Northern dusky salamander	
		Eastern pipistrelle	Gray fox	Redback salamander	
		Big brown bat	Common raccoon	Northern two–lined salamander	
		Eastern red bat	Ermine	Eastern American toad	
		Hoary bat	Long–tailed weasel	Fowlers toad	
		Eastern cottontail	Striped skunk	Gray treefrog	
		Eastern chipmunk	Mink	Wood frog	
		Woodchuck		Northern leopard frog	

VEGETATION SPECIES OBSERVED

	NATIVE SPECIES			ORNAMENTAL SPECIES	
GRASSES/FORBS	SHRUBS	TREES	TREES	SHRUBS	TREES
Japanese honeysuckle	Red–osier dogwood	Catalpa	Shagbark hickory		
Raspberry	Staghorn sumac	Red maple	Eastern red cedar		
Greenbriar	Spicebush	Black locust	Black cherry		
Milkweed		Red oak	Sugar maple		
Poison ivy		Sassafras			
Solidago					
Aster					
Blackberry					

TABLE A2
FEDERAL AND STATE PROTECTED SPECIES POTENTIALLY OCCURRING ON THE NEW HAVEN, 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 THE 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
SC	*JEFFERSON SALAMANDER "COMPLEX"*
SC	*BLUE-SPOTTED SALAMANDER "COMPLEX"*
ST	*BLUE-SPOTTED SALAMANDER "DIPLOID POPULATION"*
SE	*EASTERN SPADEFOOT*

4)REPTILES

Status	Species
SC	*EASTERN HOGNOSE SNAKE*
SC	*EASTERN RIBBON SNAKE*

5)BIRDS

Status	Species
ST	*SHARP-SHINNED HAWK*
SC	*RED-SHOULDERED HAWK*
SC	*WHIP-POOR-WILL*
SC	*COMMON NIGHTHAWK*
SC	*OLIVE-SIDED FLYCATCHER (MIGRATING ONLY)*
ST	*HORNED LARK*
SE	*RED-HEADED WOODPECKER*

6)MAMMALS

Status	Species	Status	Species
SC	*SILVER-HAIRED BAT*	*SC*	*HOARY BAT*
SC	*EASTERN RED BAT*		

SE = STATE ENDANGERED ST = STATE THREATENED SC = STATE SPECIES OF CONCERN

TABLE A3
STATE AND FEDERAL PROTECTED PLANT SPECIES POTENTIALLY OCCURRING ON THE NEW HAVEN, CONNECTICUT USARC (1994)

STATUS	COMMON NAME	SCIENTIFIC NAME	HABITAT	FLOWERING SEASON
SC	Purple giant hyssop	*Agastache virginica*	Low thickets, open woods.	7/23 – 8/30
SC	Small–flowered agrimony	*Agrimonia parviflora*	Moist thickets, meadows.	
ST	Virginia snakeroot	*Aristolochia serpentaria*	Rich woods.	6/23 – 8/31
SE	Narrow–leaved glade fern	*Athryium pycnocarpon*	Moist woods, sweet soil.	7/26 – 10/31
SC	Hairy woodmint	*Blephilia hirsuta*	Moist woods.	7/9 – 8/29
SC	Purple cress	*Cardamine douglassii*	Rich woods.	May
SE	Davis' sedge	*Carex davisii*	Rich woods, meadows.	6/6 – 7/4
ST	Handsome sedge	*Carex formosa*	Damp rich woods.	6/5 – 6/30
SC	Sedge	*Carex hirsutella*	Moist or dry woods or in open.	6/10 – 8/10
SC	Hitchock's sedge	*Carex hitchcockiana*	Rich woods, limey soil.	6/7 – 7/14
SE	Eastern few–fruited sedge	*Carex oligocarpa*	Rich woods, limey soil.	6/8 – 6/29
SC	Wild senna	*Cassia hebecarpa*	Thickets, fields, roadsides.	7/20 – 8/23
ST	Early coralroot	*Corallorhiza trifida*	Wet woods, swamps.	5/26 – 7/7
SE	Dew drop	*Dalibarda repens*	Rich moist woods.	6/26 – 8/25
ST	Squirrel corn	*Dicentra canadensis*	Rich woods.	4/29 – 6/2
SC	Persimmon	*Diospyros virginiana*	Woods.	June
ST	Goldie's fern	*Dryopteris goldiana*	Rich damp woods.	7/8 – 10/31
ST	Dwarf scouring rush	*Equisetum scirpoides*	Rich moist woods.	4/10 – 10/1
SE	Small white snakeroot	*Eupatorium aromaticum*	Open woods.	8/8 – 9/16
SE	Stiff gentian	*Gentiana quinquefolia*	Meadows, moist woods.	8/23 – 10/11
SE	Golden seal	*Hydrastis canadensis*	Rich woods.	5/8 – 5/18
SC	Virginia waterleaf	*Hydrophyllum virginianum*	Rich wet woods.	5/20 – 7/10
SC	Yellow flax	*Linum sulcatum*	Dry roadsides.	7/19 – 9/14
SE	Lily–leaved twayblade	*Liparis lilifolia*	Rich moist woods.	6/8 – 7/6
SC	Climbing fern	*Lygodium palmatum*	Damp or wet woods.	7/22 – 11/19
SE	Green adder's–mouth	*Malaxis unifolia*	Moist or dry woods.	7/23 – 8/19
SC	White wood– sorrel	*Oxalis montana*	Rich woods.	6/10 – 8/6
SC	Violet wood–sorrel	*Oxalis violacea*	Rich moist woods.	5/10 – 6/20
SC	American ginseng	*Panax quinquefolius*	Rich woods.	7/5 – 7/31
SE	Swamp cottonwood	*Populus heterophylla*	Rich woods.	7/17 – 9/15
SE	Bur oak	*Quercus macrocarpa*	Wet or dry limey soil.	6/3 – 6/10
SC	Skunk currant	*Ribes glandulosum*	Moist or swampy woods.	4/25 – 6/9
SE	Stiff goldenrod	*Solidago rigida*	Dry woods or in open.	8/27 – 9/24
ST	White mandarin	*Streptopus amplexifolus var. americanus*	Rich damp woods.	5/23 – 9/26
SE	Large–flowered bellwort	*Uvularia grandiflora*	Rich woods.	5/2 – 5/26
ST	Canada violet	*Viola canadensis*	Rich limey woods.	5/11 – 8/16
SC	Kidney–leaf white violet	*Viola renifolia var. brainerdii*	Rich open woods.	5/24 – 5/30
SE	Barren strawberry	*Waldsteinia fragarioides*	Rich dry woods.	5/3 – 6/2
SE	Golden alexanders	*Zizia aptera*	Woods.	July

RANGES FROM:
CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION 1993.

HABITATS FROM:
SEYMOUR 1993.

SC = STATE SPECIES OF CONCERN
ST = STATE THREATENED
SE = STATE ENDANGERED

TABLE A4
AMPHIBIANS AND REPTILES WHOSE RANGES INCLUDE THE NEW HAVEN, CONNECTICUT USARC (1994)

MARBLED SALAMANDER	*AMBYSTOMA OPACUM*
JEFFERSON SALAMANDER	*AMBYSTOMA JEFFERSONIANUM*
SILVERY SALAMANDER	*AMBYSTOMA PLATINEUM*
BLUE–SPOTTED SALAMANDER	*AMBYSTOMA LATERALE*
TREMBLAY'S SALAMANDER	*AMBYSTOMA TREMBLAYI*
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 SPADEFOOT	*SCAPHIOPUS HOLBROOKII HOLBROOKII*
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*
NORTHERN LEOPARD FROG	*RANA PIPIENS*
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*
FIVE–LINED SKINK	*EUMECES FASCIATUS*
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 MOKASE N*
TIMBER RATTLESNAKE	*CROTALUS HORRIDUS*

* Reserve Center is near the edge of the species geographic range.

NOTE:SILVERY AND TREMBLAY'S SALAMANDERS ARE HYBRIDS FROM CROSSES OF JEFFERSON AND BLUE–SPOTTED SALAMANDERS.

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 NEW HAVEN, 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 dougalli*
Common tern	*Sterna hirundo*
Least tern	*Sterna antillarum*
Rock dove	*Columba livia*

TABLE A5 cont.
BREEDING BIRDS WHOSE RANGES INCLUDE THE NEW HAVEN, 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 trailli*
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 NEW HAVEN, 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*
Song sparrow	*Melospiza melodia*

TABLE A5 cont.
BREEDING BIRDS WHOSE RANGES INCLUDE THE NEW HAVEN, CONNECTICUT USARC INCLUDING POTENTIAL NESTING SPECIES (1994)

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*

* Reserve Center is near the edge of the species geographic range.

DENOTES SPECIES POTENTIALLY NESTING ON THE USARC BECAUSE SUITABLE HABITAT IS PRESENT.

NOMENCLATURE FROM:
AMERICAN BIRDING ASSOCIATION 1990.

RANGES FROM:
1) DEGRAAF AND RUDIS 1983b.
2) ZERANSKI AND BAPTIST 1990.

TABLE A6

MAMMALS WHOSE RANGES INCLUDE THE NEW HAVEN, CONNECTICUT USARC (1994)

VIRGINIA OPOSSUM	*DIDELPHIS VIRGINIANA*
COMMON MASKED SHREW	*SOREX CINEREUS*
WATER SHREW	*SOREX PALUSTRIS ALBIBARBIS*
SMOKEY SHREW •	*SOREX FUMEUS*
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*
SILVER-HAIRED BAT	*LASIONYCTERIS NOCTIVAGANS*
EASTERN PIPESTRELLE	*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 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,

Dawn 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 heath-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.

Design by:
Diane Tyler
Produced by:
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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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,

Kenneth C Carr

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

NEW HAVEN

INSPECTION DATE: 10/15/98 at 8 30 a m

SITE: SGT George D. Libby USARC - 200 Wintergreen Avenue - New Haven, CT

INSPECTORS: Jason Sirois, Environmental Scientist with DTC
Fred Mastele, Environmental Compliance Officer with DTC

INSPECTION SUMMARY

The O/W Separator system is located northwest of the OMS (Organizational Maintenance Shop) building. The system consists of a wash pad catch basin (CB) and a double chambered Oil/Water Separator Structure, both of which were pumped out on 10/15/98 by Safety-Kleen. The O/W Separator discharges to a sanitary sewer system, where **an** oily rcsiduc was observed on sewer floor (sheet I).

The investigation revealed that a crack exists within the wash pad southwest of the CB. The crack extends across the entire horizontal length (15') of the concrete pad (sheet 1) and ranges in width from 1/16" to ¼". There was minor chipping (approximately 2" x 2" area) around the edges of the wash pad as well as places along the aforementioned crack. The CB is located in the center of the wash pad and did contains standing water and sediment (approximately 25" depth) on basin floor. There was also a hairline crack observed on the pavement extending east of the wash pad to the **OMS** building (approximately **14')** (sheet 1).

Inspection of the O/W Separator revealed that no severe cracking, deformation or deterioration of the structure was evident (sheet 2) (photo 1). The structure consisted of two chambers of equal size (63" deep with a 59" x 57" area) separated by a concrete baffle (43" x *6")* which was centered between the chambers. Each chamber consisted of two pre-cast concrete sections with a 1" sealed seam. The floor and corners of the structure were watertight, however, there was a significant amount of staining and oily residue along all the wall surfaces (photo 2). The grout around the entire 6 outlet pipe and top half of the 6" inlet pipe were chipped (two-inch depth). The baffle was supported with four angle iron brackets, which were in good solid condition. Besides the edges of the baffle being chipped away, its structural integrity was sound. There were no vent pipes observed in the structure. manwa, [illegible] holes

CONCLUSIONS

Overall, the wash pad catch basin and the O/W Separator were observed to be functional and in satisfactory condition. However, the efficiency of the system is questioned due to the aforementioned oil staining observed on the sewer floor. The existing discharge of **the** system to the sanitary sewer is acceptable; however the discharge must be permitted with the Connecticut **DEP.**

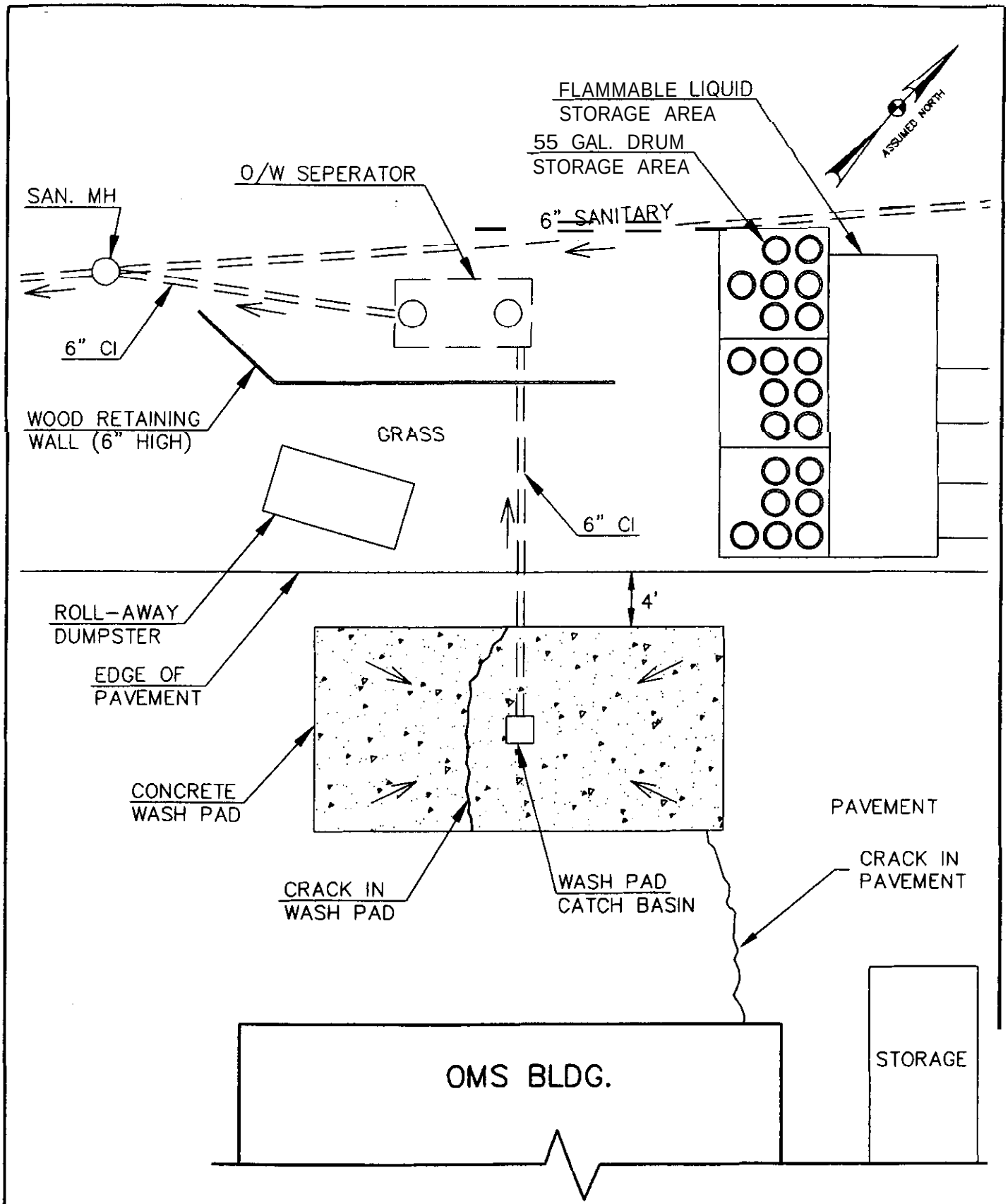
RECOMMENDATIONS

- To submit a general permit application for the discharge of vehicle service floor dram wastewater and a permit application transmittal form in order to obtain a discharge permit with the **DEP.**
- To submit site plans and an O/W Separator schematic to the DEP for review.

- Construct a three-inch lip (curb) around wash pad to prevent stormwater from entering O/W Separator and to prevent washwater from travelling to surrounding surfaces.
- Repair the crack that exists within the wash pad southwest of the CB. The crack extends across the entire horizontal length (15') of the concrete pad (sheet 1) and ranges from 1/16" to ¼" in width.
- The chipping around the entire 6" outlet pipe and top half of the 6" inlet pipe (two-inch depth) should be re-grouted/painted with non-shrinking cement and coated with a waterproof sealant.

1. Facility manager interview
2. Test borings
3. Grit chamber analysis
4. Flow test
5. Effluent variation needed

→ System appears to be in good shape

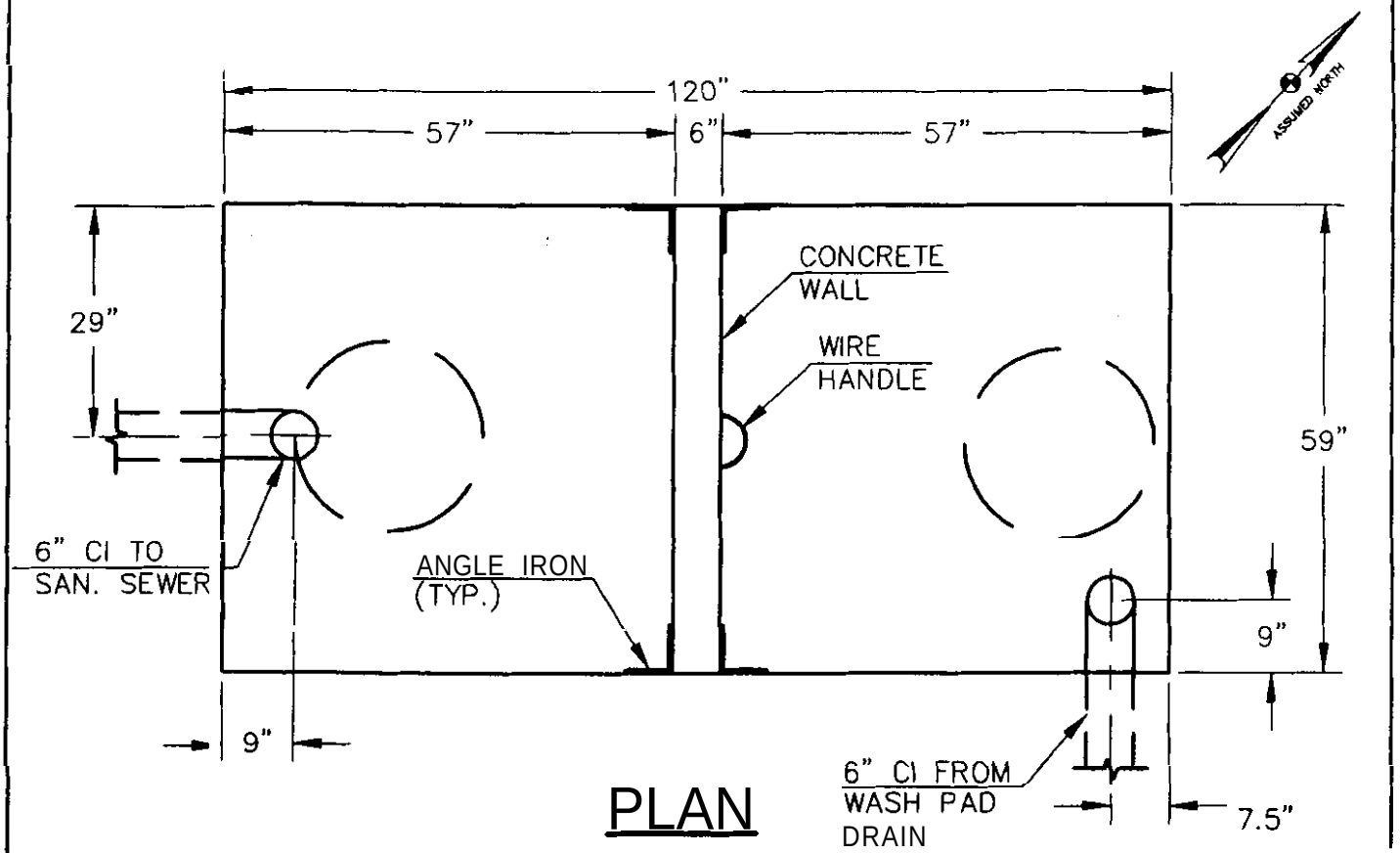


DIVERSIFIED TECHNOLOGY CONSULTANTS

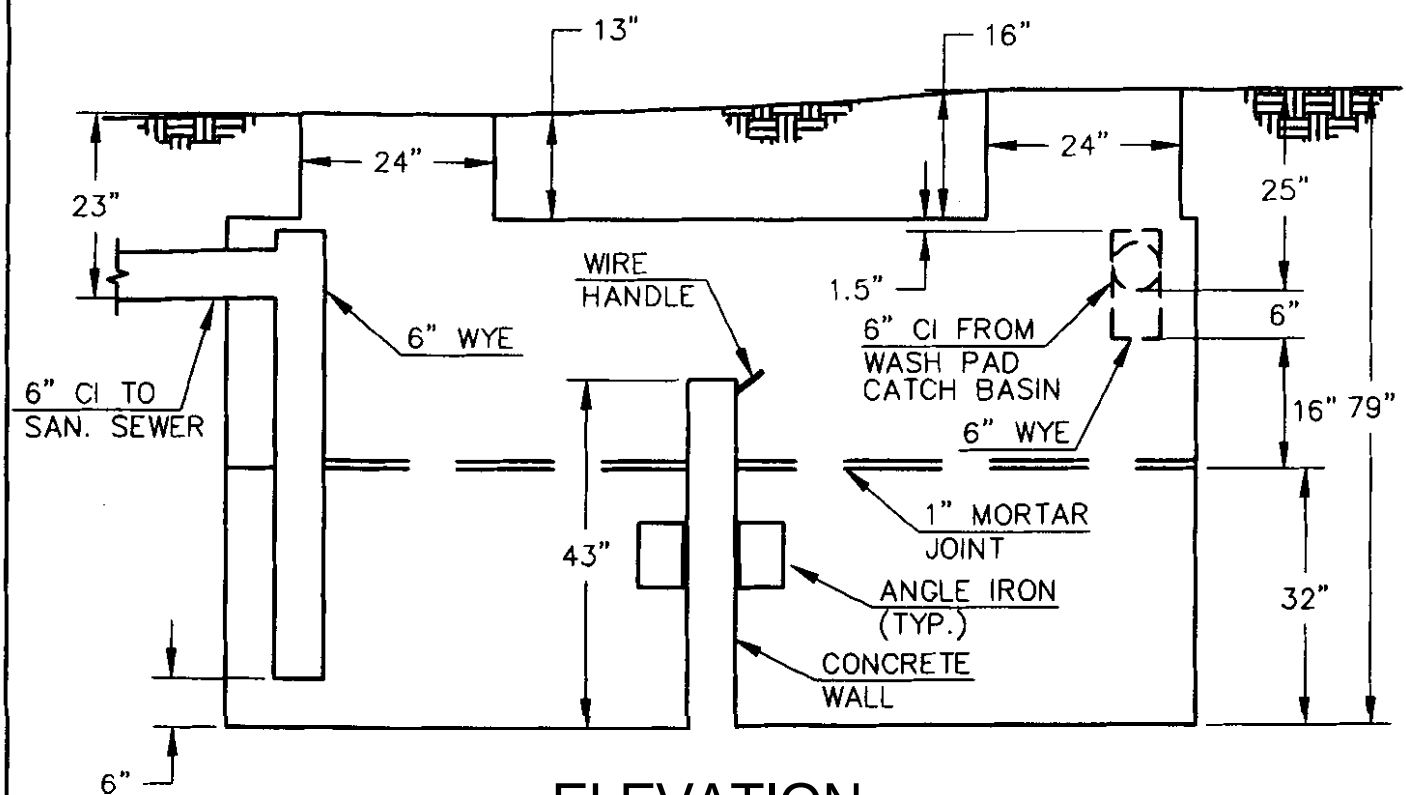
LIBBY USARC
NEW HAMN, CONNECTICUT
SITE PLAN

DWG. FILE: NEW HAVEN-CT
DRAWN: DDG
SCALE: 1"=10'

OTC No.: 97-092-105
DATE: 11-5-98
SHEET 1 OF 2



PLAN



ELEVATION

Diversified Technology Consultants
884 Washington Avenue North Haven CT 06473
203 239 4000 203 234 7879 Fax

LIBBY USARC
NEW HAVEN, CONNECTICUT

OW SEPERATOR

DWG. FILE: NEW HAVEN-CT
DRAWN: DDG
SCALE: 1/2"=1'-0"

DTC No.: 97-092-105
DATE: 11-5-98
SHEET 2 OF 2

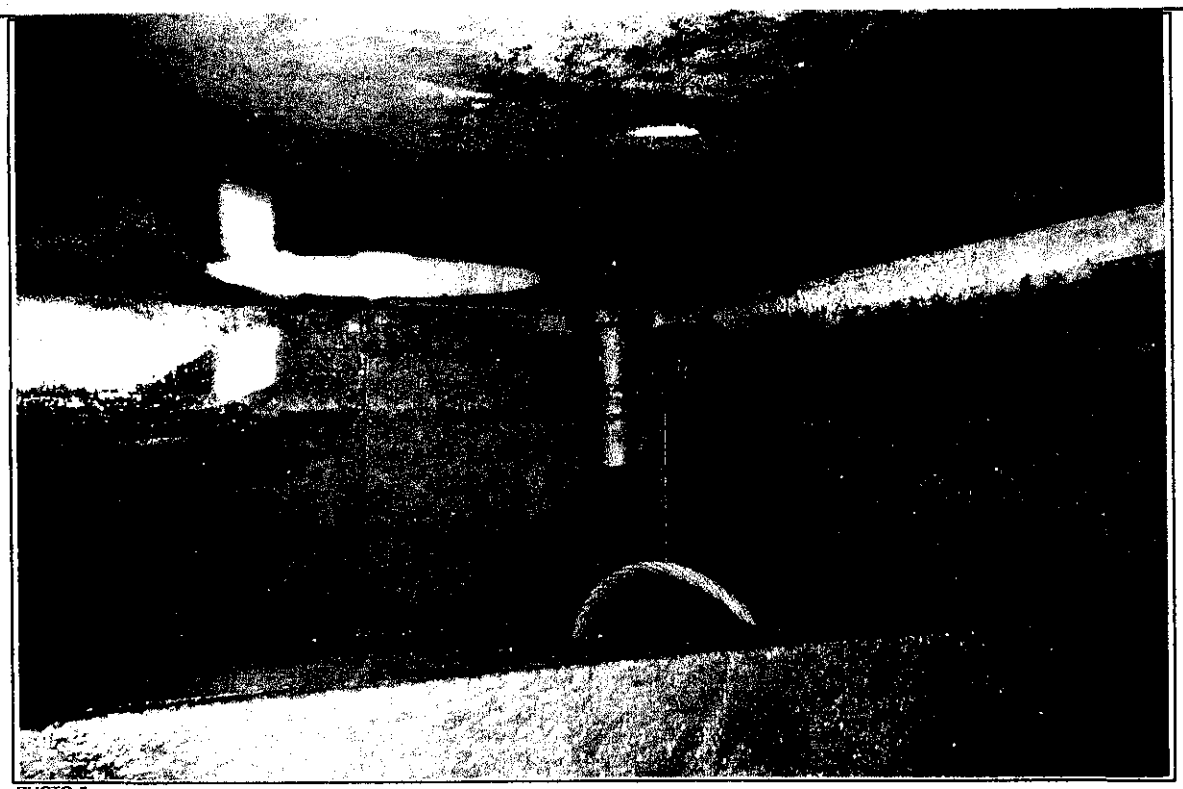


PHOTO 1
OCTOBER 15, 1998

EXISTING CONDITION OF OIL/WATER SEPARATOR

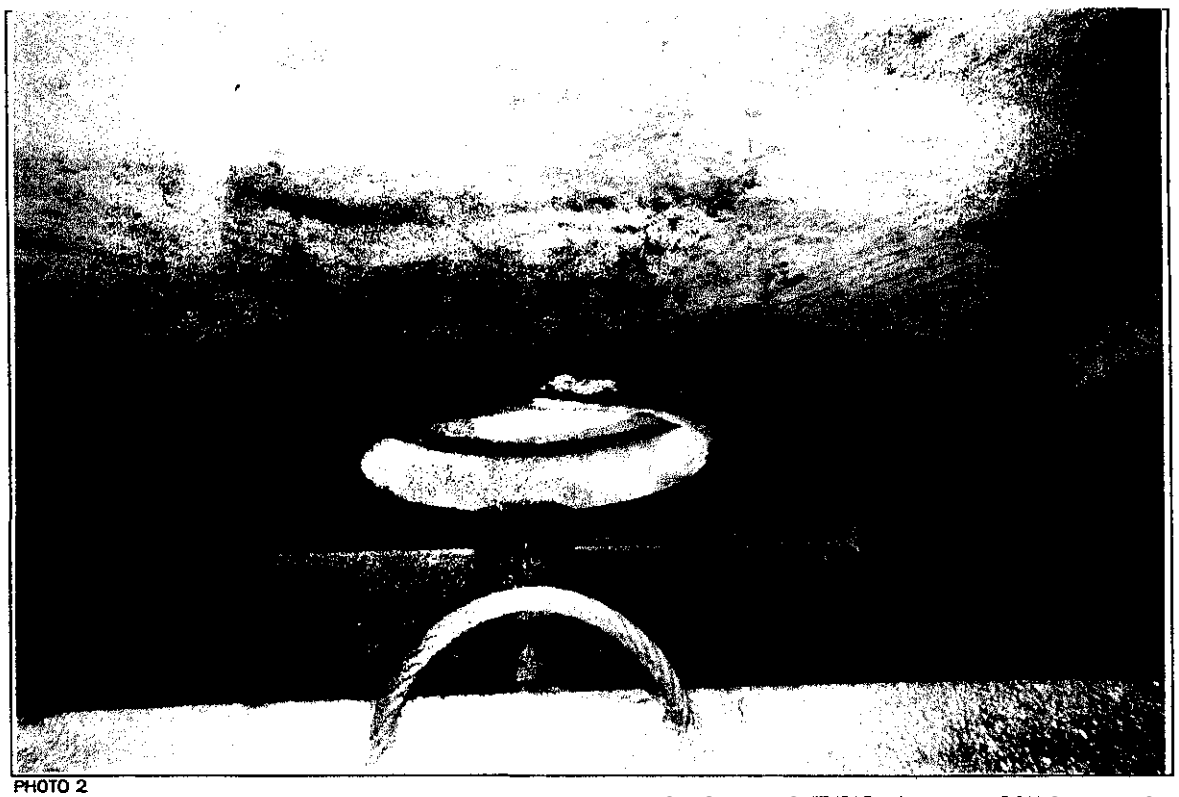


PHOTO 2
OCTOBER 15, 1998

OIL STAINING (TYPICAL) WITHIN O/W SEPARATOR

ENGINEERED SOLUTIONS

dtc

DIVERSIFIED TECHNOLOGY CONSULTANTS

556 WASHINGTON AVENUE NORTH HAVEN CT 06473 203 239 4200 203 234 7376 FAX

DTC No. 97-092-105
SGT GEORGE D. LIBBY USARC
200 Wintergreen Avenue
New Haven, CT

Plate
1

Puryear, Gary MR (94RSC-ODCSEN)

From: Anderson, Mark*MR (94RSC-334 QM BN(POL))
Sent: Tuesday, May 22, 2001 11:13 AM
To: Puryear, Gary MR (94RSC-ODCSEN)
Cc: Pensanti, Steve MR (94RSC-395 QM BN(S&S)); Tellan, Marsh MR (94RSC-334 QM BN (POL)); Smith, Lawrence LTC (94RSC-334 QM BN (POL))
Subject: OIL in New Haven

Gary,

I talked to MSG Smoot and SFC Plummer. They do not know how the fuel got into the oil water separator and will sign sworn statements to that effect. They don't know who emptied the two barrels of water and heating fuel. Mr. Pensanti can probably tell us, but I understand that he is out of the office.

Mark W. Anderson

SSA, 334TH QM Bn
PH:(860)627-2408
FAX:(860)627-2412

MEMORANDUM FOR RECORED 22 MAY 2001

SUBJECT: Fuel Oil in Oil Water Separator New Haven CT

On 18 May 2001 Mr. Steve Lombardi was at the New Haven facility observing soil borings being conducted by DTC. The drilling was being done next to the oil water separator. Mr. Lombardi opened the covers to the oil water separator and found a very reddish material of a large quantity. The material appeared to be diesel fuel.

Mr. Lombardi called Mr. Puryear and explained the situation. There appears to be about two inches of diesel fuel in the oil water separator (roughly 40 gallons). Mr. Puryear called me and explained the situation. The unit personnel were instructed to pump the fuel into 55-gallon drums. This was not accomplished on Friday because the units' equipment had been moved to an other location do to a parking lot project for the whole facility. The unit asked if they could use my small pump and I said yes but it will have to be on Monday. That was agreeable with the unit personnel.

Monday 21 May, I showed up at about 1030 hours and we attempted to pump the product into 55-gallon drums but my pump was to small to pump to the height of the drum from the oil water separator. It was suggested to rent a pump. The pump that was rented worked very well. There might be about two gallons of product in the oil water separator at this time. The wash rack drain was plugged and the two 55-gallon drums of water and product from the oil water separator were placed in side the OMS.

I asked SFC Plummer, MSG Smoot and Mr. Algavane if they knew who or how the product got into the oil water separator and they all said I don't know. I left the New Haven facility about 1630 hours.

Harold L. Wilmot
Environmental Contract Support
Bregman & Company, Inc.

Wilmot, Harry L NAE

From: Puryear, Gary MR (94RSC-ODCSEN) [Gary.Puryear@usarc-emh2.army.mil]
Sent: Monday, May 21, 2001 12:45 PM
To: Smith, Lawrence LTC (94RSC-334 QM BN (POL))
Cc: Puryear, Gary MR (94RSC-ODCSEN)
Subject: Petroleum Release At New Haven

LTC Smith,

While working with your AGR staff of the 439th at New Haven this past Friday, we discovered that a significant amount of petroleum product has been released into the oil/water separator. Members of the 439th have been engaged in a major cleanup of their hazardous materials and hazardous waste. Given their mission and the amount of material they have been storing at the New Haven location, it would appear that persons associated with the 439th either were involved in this discharge or may have knowledge of the release.

We directed your staff to try to pump the product out of the separator on Friday. They were unable to accomplish this task since most of their equipment has been relocated elsewhere during the construction project. We had them cover the drain inlet to the wash rack with plastic (weighted down) over the weekend to preclude any potential rainfall from driving the product out of the separator and into the sanitary sewer. This would have definitely escalated the problem and would have triggered notifications to the regulators and their subsequent investigations. If the product can be completely retrieved, we can at least avoid involvement of the regulators, since the petroleum has not left the site, is not in the ground and is fully retrievable. We have sent one of our staff down to the site this AM to assist in providing oversight for the effort. We currently estimate that there is approximately 40-50 gallons of free product floating in the separator. The exact amount wouldn't be known until it is successfully retrieved. We believe the material to be diesel fuel.

We request that you investigate the issues that surround this release, since it is a significant amount and its "dumping" (in this case) represents a potential serious breach of the law(s). There are several questions that need to be asked including the usual, who, what, when, where, why. We recommend you conduct this inquiry at your soonest in order to help preclude other such releases from occurring. The liabilities are significant with respect to these sorts of issues.

As your advisor, we are available to support you in this effort, but suggest the actual investigation be done with your staff. As Commander, you may of course choose the level of effort, from formal to informal. Due to the nature of the release, we request that a copy of any report generated be forwarded to us.

If you would like to discuss this, please give me a call at 1-800-554-7813, EXT #2238.

If you have need to bring someone on active duty (ADSW) for this effort or other work requirements relating to environmental management, please accept our offer to provide funds for supporting your needs. Just give me a call and we can discuss this also.

Again, thank you and your staff for allowing us to discuss POLEX issues with you this past Thursday evening. We hope we were of some help.

Regards,
Gary

Wilmot, Harry L NAE

From: Hudson, James*MR (94RSC-ODCSEN) [James.Hudson@usarc-emh2.army.mil]
Sent: Wednesday, April 11, 2001 12:07 PM
To: Pensanti, Steve MR (94RSC-395 QM BN(S&S)); 'Wilmot, Harry L NAE'
Cc: Smoot, Charles MSG (94RSC-439 QM CO(PTL SUP)); Plummer, Norman SFC (94RSC-439 QM CO(-)(PTL SUP)); Strickland, Earl MSG (94RSC-395 QM BN(S&S)); Osborne, Jonathan SGT (94RSC-HHD/395 QM BN(S&S))
Subject: RE: New Haven Fumes

We need to give credit, where credit is due especially to the folks that
make things happen.

Thanks

> -----Original Message-----
> From: Pensanti, Steve MR (94RSC-395 QM BN(S&S))
> Sent: Wednesday, April 11, 2001 12:07 PM
> To: Hudson, James*MR (94RSC-ODCSEN); 'Wilmot, Harry L NAE'
> Cc: Smoot, Charles MSG (94RSC-439 QM CO(PTL SUP)); Plummer, Norman SFC
> (94RSC-439 QM CO(-)(PTL SUP)); Strickland, Earl MSG (94RSC-395 QM
> BN(S&S)); Osborne, Jonathan SGT (94RSC-HHD/395 QM BN(S&S))
> Subject: RE: New Haven Fumes
>
> Harry took care of things yesterday. Appreciate your positive support. I
> will pass it on to those who deserve the recognition from others of a job
> well done.
>
> -----Original Message-----
> From: Hudson, James*MR (94RSC-ODCSEN)
> Sent: Wednesday, April 11, 2001 11:56 AM
> To: 'Wilmot, Harry L NAE'
> Cc: Pensanti, Steve MR (94RSC-395 QM BN(S&S))
> Subject: RE: New Haven Fumes
>
> Harry
>
> Thanks, will you be revisiting this area anytime soon?
>
> Steve
>
> Reference fumes issue you mentioned in your previous email.
>
> Does the OMS have a Satelite Storage Site inside the building?
>
> Recommend that drum lids be installed and secured so that fumes will
> not vent
> in the OMS.
>
> Please pass on to other units that we do appreciate their support in
> moving equipment,
> I gave your center an ataboy at the Staff Meeting this morning for
> being proactive.
>
> Thanks
>
> Mike
>
> -----Original Message-----
> From: Wilmot, Harry L NAE
> [SMTP:Harry.l.Wilmot@nae02.usace.army.mil]
> Sent: Wednesday, April 11, 2001 11:37 AM
> To: 'James.Hudson@USARC-EMH2.ARMY.MIL'
> Subject: New Haven Fumes
>
> After the soldiers put the hazardous waste /hazardous
> material in the OMS they did not clean up any spillage. They left some
> open head drums open that had JP-8 and deisel fuel in them. They did not

The following screen will appear.

Enter the appropriate action.

Click on Save.

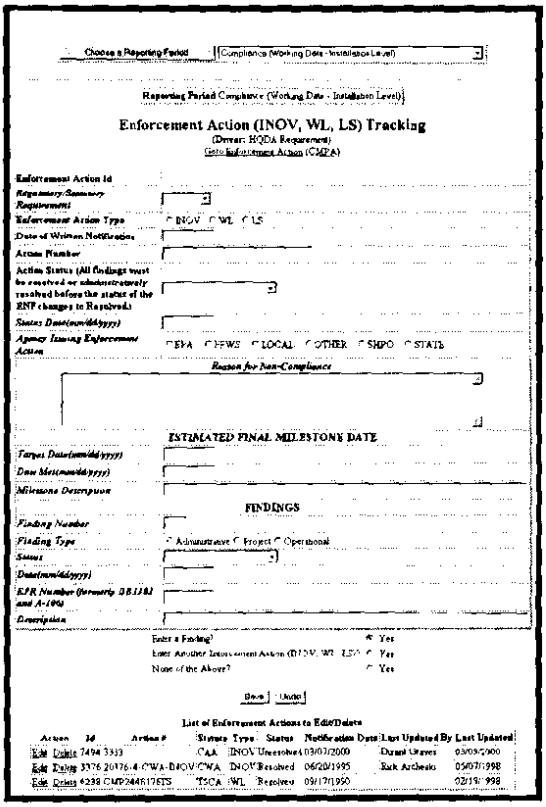


Figure 3- 13 EQR Enforcement Action (INOV, WL, LS) Tracking

Mandatory Fields:

- Regulatory/Statutory Requirements
- Enforcement Action Type
- Date of Written Notification
- Action Number
- Action Status
- Status Date
- Agency(s) Issuing Enforcement Action
- Reason for Non Compliance
- Target Date
- Date Met (only if Enforcement Action is completed)
- Milestone Description
- Finding Number
- Find Type
- Status
- Date
- Description

Data Validation is:

- ENF Status can be Administratively Resolved or Resolved only when all Findings are Administratively Resolved or Resolved
- ENF Status cannot be Pending when any Finding is Unresolved.

Puryear, Gary MR (94RSC-ODCSEN)

From: Tellan, Marsh MR (94RSC-334 QM BN(POL))
Sent: Monday, May 21.2001 12:04 PM
To: Puryear, Gary MR (94RSC-ODCSEN)
Subject: RE: Petroleum Release At New Haven

Thanks.

Marsh J. Tellan

Supervisory Staff Administrator
334th Quartermaster Battalion (PS)
(800) 240-4467 ext 2400 or (860) 627-2400

-----Original Message-----
From: Puryear, Gary MR (94RSC-ODCSEN)
Sent: Monday, May 21, 2001 12:45 PM
To: Smith. Lawrence LTC (94RSC-334 QM BN (POL))
Cc: Puryear, Gary MR (94RSC-ODCSEN)
Subject: Petroleum Release At New Haven

LTC Smith.

While working with your AGR staff of the 439th t New Haven this past Friday, we discovered th a significant amount of petroleum product has l leas into the oil/water separator. Members of the 4 have been engaged in a major cleanup of their hazardous materials and hazardous waste. Given their mission and the amount of material they hav been storing at the New Haven location, it would appear that persons associated with the 439th either were involved in this discharge or m a have knowledge of the release.

We directed your staff to try to pump the product out of the separator on Friday. They were unable to accomplish this a since m d their equipment has been relocated elsewhere during the construction p je We had th m the drain inlet o the wash rack with plastic (weighted down) over the weekend to preclude any potential rainfall from driving the product t of th separator l into th sanitary sewer. This ld h definitely escalate h problem and would have triggered notifications to the regulators and their subsequent investigations. If the product can be completely retrieved, we can at least avoid involvement of the regulators, since the petroleum has not left the site, is not in the ground and is fully retrievable. We have sent one of our staff down to the site this AM to assist in providing oversight for the effort. We currently estimate that there is approximately 40-50 gallons of free product floating in the separator. The exact amount wouldn't be known until it is successfully retrieved. We believe the material to be diesel fuel.

We request that you investigate the issues that surround this release, since it is a significant amount and its "dumping" (in this case) represents a potential serious breach of the law(s). There are several questions that need to be asked including the usual, who, what, when, where, why. We recommend you conduct this inquiry at your soonest in order to help preclude other such releases from occurring. The liabilities are significant with respect to these sorts of issues.

As your advisor, we are available to support you in this effort but suggest the actual investigation be done with your staff. As Commander, you may of course choose the level of effort, from formal to informal. Due to the nature of the release, we request that a copy of any report generated be forwarded to us.

If you would like to discuss this, please give me a call at 1-800-554-7813, EXT #2238

If you have need to bring someone on active duty (ADSW) for this effort or other work requirements relating to environmental management, please accept our offer to provide funds for supporting your needs. Just give me a call and we can discuss this also.

Again, thank you and your staff for allowing us to discuss POLEX issues with you this past Thursday evening. We hope we were of some help.

Regards,
Gary

team dtc

SOIL INVESTIGATION

SSG GEORGE D LIBBEY USARC
NEW HAVEN, CT

98-371-104

Submitted to

Mr. Gary Puryear
94th Regional Support Command
Devens, MA

June 20, 2001

dtc

DIVERSIFIED TECHNOLOGY CONSULTANTS

NORTH HAVEN, CT NEW LONDON, CT STAMFORD, CT WORCESTER, MA

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1.0 INTRODUCTION

Diversified Technology Consultants (DTC) was retained by the Department of the Army, 94th Regional Support Command (RSC) to conduct a study of soil conditions in the area of proposed construction at SSG George D. Libby US Army Reserve Center (USARC), 200 Wintergreen Avenue, New Haven, Connecticut. The location of the site is illustrated on the site location plan enclosed as Figure 1. The purpose of this investigation was to identify potential impact to site soils from historic storage of petroleum compounds on site and general site usage. This work is being conducted in support of on-going facility restoration activities.

1.1 Background

Based on conversations with representatives of the 94th RSC, the primary areas sampled had historically been used for the storage or potential storage of petroleum compounds on site. Additional sampling was conducted in areas where an accumulation of contaminants would be expected had a release occurred.

1.2 Scope of Investigation

To determine whether or not soils within the subject site have been impacted by historic uses, the following scope of work was performed in accordance with DTC's proposal dated May 16, 2001:

- Preparation of a site-specific Health and Safety Plan (HASP);
- Ten soil borings (B1-B12) were conducted at the site. B1-B10 were advanced using a truck-mounted drilling rig and B11-B12 were advanced by hand;
- Soil samples collected during drilling operations were visually inspected for evidence of hydrocarbon impact and screened for the presence of volatile organic compounds (VOCs) using photoionization detector (PID). Soil grab samples were analyzed as follows: twelve soil samples were analyzed for volatile organic compounds (VOCs) per United States Environmental Protection Agency (EPA) Method 8260 and extractable total petroleum hydrocarbons (ETPH) per the CTDEP Method. Six samples were analyzed for semivolatile organic compounds (SVOCs) per EPA Method 8270 and eight Resource Conservation and Recovery Act (RCRA) metals (total and SPLP methods) per EPA Methods 7471 and 6010; and
- This report was prepared to summarize the findings and data obtained in DTC's subsurface investigation of the subject site.

SITE LOCATION

SSG GEORGE D LIBBEY USARC

200 WINTERGREEN AVE

NEW HAVEN, CT

DTC No.: 98-371-104

June 2001

Figure 1

ENGINEERED SOLUTIONS

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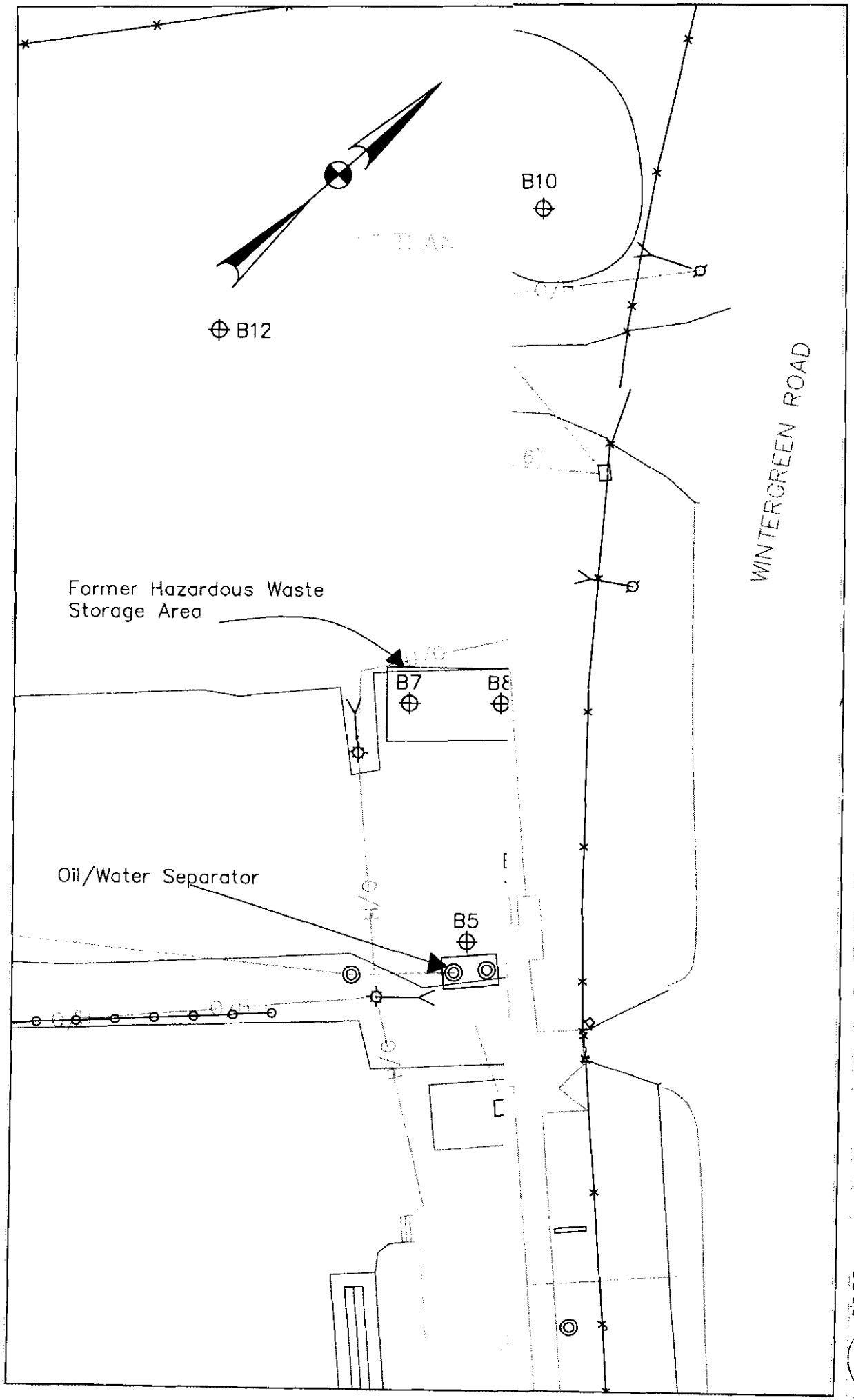
LAND STRUCTURES WATER

DIVERSIFIED TECHNOLOGY CONSULTANTS

556 WASHINGTON AVENUE NORTH HAVEN CT 06473 203 239 4200 203 234 7376 FAX



NOTES

REVISIONS

DIVERSIFIED TECHNOLOGY CONSULTANTS

SSG GEORGE D LIBBEY
USARC
200 WINTERGREEN AVE
NEW HAVEN, CT

BORING LOCATIONS

DTC PROJECT NUMBER: 98-371-104
DTC DRAWING FILE: FIGURE 2.DWG
SCALE: NTS
DATE: 6/1/01
DRAWN BY: MAA/W
CHECKED BY: JAF

FIGURE 2

2.0 SOIL SAMPLING AND ANALYSES

Twelve test borings (B1-B12) were advanced in order to explore subsurface conditions and to collect soil samples from the areas of concern previously identified. Boring locations were selected based on the current and historic uses of the areas of concern. Four borings (B1-B4) were conducted in an area of historic outdoor POL storage. Two borings (B5-B6) were conducted in the area of an oil/water separator. Two borings were conducted in an area of former hazardous waste storage. One boring (B9) was conducted in an area of former trailer storage and one boring (B10) was conducted in an area of suspected filling. Two borings (B11-B12) were conducted in wetlands that are located down-gradient of site operations. The locations of all borings are illustrated on Figure 2.

2.1 Test Boring Method

Test borings were performed by Connecticut Test Borings (CTB) of Seymour, Connecticut on May 18, 2001 under the observation of DTC. The sample collection locations are shown on Figure 2 and the logs of the test boring explorations prepared by DTC are enclosed in Appendix A. Test borings were utilized to explore soil conditions.

Test borings B1-B10 were performed using 4 ¼ inch inside diameter hollow stem augers. Borings were drilled without the introduction of drilling fluids. Split spoon samples were obtained in advance of the auger at the surface and at 2-foot intervals. Test borings B11 and B12 were obtained by driving a split spoon sampler into the ground by hand with a sledge hammer. Soils obtained in each split spoon sampler were visually inspected and classified and a portion was screened for the presence of VOCs using a PID. Selected soil samples were placed in glass jars and stored on ice for subsequent laboratory analysis. Standard Penetration Tests (SPTs) were performed as part of the split spoon sampling to determine standard penetration resistance, which is a measure of in-situ soil density.

2.2 Soil Sampling Overview

A total of twelve (12) soil borings (B1-B12) were conducted at the site on May 18, 2001. Boring locations are illustrated on Figure 2 and boring logs prepared by DTC are enclosed as Appendix A. Boring locations were selected based on current and historical uses of the areas of concern. The following is a description of each sample location:

- B1 was performed in the area of former POL storage and was advanced to a depth of 8-feet. Soil generally consisted of brown fine to coarse sand and gravel. Groundwater was not encountered. A sample was collected from 2-4 feet.
- B2 was performed in the area of former POL storage and was advanced to a depth of 8-feet. Soil generally consisted of brown fine to coarse sand and gravel. Groundwater was not encountered. A sample was collected from a depth of 2-4 feet below grade.

- B3 was performed in the area of former POL storage and was advanced to a depth of 8-feet. Soil generally consisted of brown fine to coarse sand and gravel. Groundwater was not encountered. A sample was collected from a depth of 2-4 feet below grade.
- B4 was performed in the area of former POL storage and was advanced to a depth of 4-feet. Soil generally consisted of brown fine to coarse sand. Groundwater was not encountered. A sample was collected from a depth of 0-2 feet below grade.
- B5 was performed adjacent to the oil/water separator and was advanced to a depth of 6-feet. Soil generally consisted of brown fine to coarse sand and gravel. Groundwater was not encountered. A sample was collected from a depth of 4-6 feet below grade.
- B6 was performed in the area of the oil/water separator and down gradient of the POL storage area. This boring was advanced to the groundwater table at depth of 34-feet. Soil generally consisted of brown fine to coarse sand. Groundwater was encountered at approximately 33-feet. A sample was collected from a depth of 32-34 feet below grade.
- B7 was performed in the area of former hazardous waste storage and was advanced to a depth of 4-feet. Soil consisted of red-brown fine to coarse sand and gravel. Groundwater was not encountered. A sample was collected from a depth of 0-2 feet below grade.
- B8 was performed in the area of former hazardous waste storage and was advanced to a depth of 4-feet. Soil consisted of brown fine to coarse sand and gravel. Groundwater was not encountered. A sample was collected from a depth of 2-4 feet below grade.
- B9 was performed in the area of former trailer storage and was advanced to a depth of 4-feet. Soil consisted of brown fine to coarse sand and gravel. Groundwater was not encountered. A sample was collected from a depth of 0-2 feet below grade.
- B10 was performed in the area of suspected filling and was advanced to a depth of 10-feet. Soil consisted of brown sand and gravel with concrete and gravel to a depth of eight feet. Soil from 8-10 feet consisted of red-brown fine to medium sand. Groundwater was not encountered. A sample was collected from a depth of 4-6 feet below grade.
- B11 was performed in the wetlands that are located down-gradient from site operations. Sampling was conducted to a depth of 4-feet. Groundwater was encountered at approximately three feet below grade. Soil consisted of brown sand and silt. Groundwater was encountered at 2-feet. A sample was collected from a depth of 2-4 feet below grade.
- B12 was performed in the wetlands that are located down-gradient from site operations. Sampling was conducted to a depth of 2-feet. Groundwater was encountered at approximately 1.5 feet below grade. Soil consisted of brown sand and silt. A sample was collected at a depth of 1-2 feet below grade.

2.3 Soil Sampling and Laboratory Analytical Methods

The primary objective was to determine soil conditions within the area of proposed construction. This data will be used to protect worker safety during construction activities, as well as manage contaminated soil during construction.

2.3.1 Test Boring Soil Collection

Soil samples were obtained from each split spoon sampler and were screened for VOCs using a PID equipped with a 10.6 eV lamp. The PID was standardized to a 100 ppm isobutylene reference gas. Selected soil samples were then sealed in 4-ounce glass jars and placed in a cooler on ice for transportation to the laboratory. Samples were submitted for laboratory analysis based either on the results of PID field screening, visual indications of contamination, or the general location of sample collection. Sample identification and PID screening results are presented on the test boring logs. No samples showed significant photoionic evidence of impact.

2.3.2 Soil Sample Analyses

Twelve samples were analyzed for ETPH per the CTDEP Method and VOCs per EPA Method 8260. Six soil samples were analyzed for SVOCs per EPA Method 8270 and eight RCRA metals per EPA Methods 7471 and 6010 by the total and Synthetic Precipitation Leachate Procedure (SPLP) methods.

A total of twelve grab samples were collected and submitted to Complete Environmental Testing, Inc. (CET) of Stratford, Connecticut for laboratory analyses. Table 1 summarizes the soil samples selected for laboratory analyses, the rationale for selection, and the analyses for which they were submitted.

TABLE 1
SUMMARY OF SOIL SAMPLE ANALYSES

Sample Name	Depth of Sample (feet)	Rationale	Laboratory Analyses	
B1	2-4	No visual or photoionic evidence of impact observed. Sample selected based on depth and potential surficial impact.	VOCs ETPH	EPA 8260 CTDEP method
B2	0-2	No visual or photoionic evidence of impact observed. Sample selected based on depth and potential surficial impact.	VOCs ETPH SVOCs 8 RCRA Metals	EPA 8260 CTDEP method EPA 8270 EPA 7471 & 6010
B3	2-4	No visual or photoionic evidence of impact observed. Sample selected based on depth and potential surficial impact.	VOCs ETPH SVOCs 8 RCRA Metals	EPA 8260 CTDEP method EPA 8270 EPA 7471 & 6010
B4	0-2	No visual or photoionic evidence of impact observed. Sample selected based on depth and potential surficial impact.	VOCs ETPH	EPA 8260 CTDEP method
B5	4-6	No visual or photoionic evidence of impact observed. Sample collected from a point at the base of the oil/water separator.	VOCs ETPH	EPA 8260 CTDEP method
B6	32-34	No visual or photoionic evidence of impact observed. Sample collected at the groundwater interface.	VOCs ETPH SVOCs 8 RCRA Metals	EPA 8260 CTDEP method EPA 8270 EPA 7471 & 6010
B7	0-2	No visual or photoionic evidence of impact observed. Sample selected based on depth and potential surficial impact.	VOCs ETPH	EPA 8260 CTDEP method

Sample Name	Depth of Sample (feet)	Rationale	Laboratory Analyses	
B8	2-4	No visual or photoionic evidence of impact observed. Sample selected based on depth and potential surficial impact.	VOCs ETPH	EPA 8260 CTDEP method
B9	0-2	No visual or photoionic evidence of impact observed. Sample selected based on depth and potential surficial impact.	VOCs ETPH SVOCs 8 RCRA Metals	EPA 8260 CTDEP method EPA 8270 EPA 7471 & 6010
B10	4-6	No visual or photoionic evidence of impact observed. Sample collected from within fill layers.	VOCs ETPH SVOCs 8 RCRA Metals	EPA 8260 CTDEP method EPA 8270 EPA 7471 & 6010
B11	2-4	No visual or photoionic evidence of impact observed. Sample collected at the groundwater interface.	VOCs ETPH SVOCs 8 RCRA Metals	EPA 8260 CTDEP method EPA 8270 EPA 7471 & 6010
B12	1-2	No visual or photoionic evidence of impact observed. Sample collected at the groundwater interface.	VOCs ETPH	EPA 8260 CTDEP method

VOCs = Volatile Organic Compounds
SVOCs = Semivolatile Organic Compounds
ETPH = Extractable Total Petroleum Hydrocarbons
RCRA = Resource Conservation & Recovery Act

2.4 Soil Regulatory Criteria

The CTDEP has established soil clean-up criteria for selected contaminants in polluted soil at a release area. The clean-up criteria are outlined in Sections 22a-133k-1 through 22a-133k-3 of the Regulations of Connecticut State Agencies (RCSA), otherwise known as the CTDEP's Remediation Standard Regulations (RSRs).

The RSRs incorporate two soil cleanup criteria for evaluation of contaminated sites: (1) Direct Exposure Criteria (DEC), which have been established to protect human health and the environment from risks associated with direct exposure to pollutants in contaminated soil; and (2) Pollutant Mobility Criteria (PMC), which have been established to protect groundwater quality by reducing or elimination the migration of pollutants from soil to groundwater. Different DEC have been developed according to a property's land use: Residential (RES) and Industrial/Commercial (I/C). Comparison to the more stringent RES DEC has been included in this report. The more stringent criteria have been used as a means to evaluate worker safety during site construction and to prevent the need for an Environmental Land Use Restriction should the less stringent, I/C DEC be used.

2.5 Soil Sample Analytical Results

Results of laboratory analysis on soil samples submitted from soil samples B1 through B12 are summarized in Table 2. For comparison purposes, Table 2 also includes the relevant soil remediation standards. Copies of the laboratory reports are included in Appendix B.

Each of the twelve soil samples was analyzed for VOCs and ETPH. No VOCs or ETPH compounds were detected in the samples submitted for laboratory analysis.

Six of the soil samples collected were analyzed for SVOCs. No SVOCs were detected in the samples submitted for analysis.

Six of the soil samples were analyzed for eight RCRA metals by the total and SPLP methods. Metals analyses by the total method are directly comparable to the DEC. Each of the samples analyzed contained lead, chromium, and barium at levels below the DEC. Metals analyses by the SPLP method are directly comparable to the PMC. Each of the samples contained leachable barium at levels below the PMC.

Table 2
Analytical Results of Soil Samples

Parameters	CTDEP Remediation Standards RES DEC	CTDEP Remediation Standards GA/GAA PMC	Soil Samples												
			sample #	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	SDL
			depth (ft)	2-4	0-2	2-4	0-2	4-6	32-34	0-2	2-4	0-2	4-6	2-4	1-2	Detection Limit
VOCs per EPA 8260 (mg/kg)				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Semivolatile Organics per EPA 8270 (mg/kg)				NA	ND	ND	NA	NA	ND	NA	NA	ND	ND	ND	NA	0.2
Total Petroleum Hydrocarbons per EPTH (mg/kg)	500	500		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
Metals per EPA 6010 & 7471 (mg/kg)																
Lead	500	0.015		NA	9.9	4	NA	NA	2.5	NA	NA	7.1	4.1	8.8	NA	2
Chromium	NE	0.05		NA	4.5	5.1	NA	NA	4.4	NA	NA	5.9	5.4	7.3	NA	2
Barium	4700	1		NA	19	13	NA	NA	17	NA	NA	18	24	19	NA	2
SPLP Metals per EPA 6010 & 7471 (mg/L)																
Barium	4700	1		NA	0.53	0.26	NA	NA	0.3	NA	NA	0.25	0.25	0.24	NA	0.05

RES DEC = Residential Direct Exposure Criteria
PMC = Pollutant Mobility Criteria

NA = Not Analyzed
NE = None Established
ND = Non-Detect

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 Conclusions

Based on the results of soil investigation and using the Soil Remediation Standards as specified in Sections 22a-133k-1 through 22a-133k-3 of the Regulations of Connecticut State Agencies, DTC has prepared the following conclusions:

- No evidence of shallow soil impact was detected by laboratory analysis in the area of the former POL storage, hazardous waste storage or storage trailer storage. In addition no specific evidence of soil impact was detected by laboratory analysis in fill material encountered in boring B-10.
- No evidence of impact from the oil/water separator to adjacent soil was identified from the soil samples collected from boring B-5. Analysis of soil collected from the approximate depth of the base of the separator did not contain VOCs or ETPH compounds.
- Laboratory analysis of soil samples collected from the groundwater interface both adjacent and downgradient to the former POL storage area, oil/water separator and former hazardous waste storage area did not detect the presence of impact from petroleum compounds that may have been stored or released from these areas.

3.2 Recommendations

Based on the above conclusions, DTC has prepared the following recommendation:

- Based on the results of the soil sampling conducted as part of this limited site investigation, It is DTC's opinion that further assessment within the areas discussed is not warranted at this time.

4.0 LIMITATIONS OF WORK

All work product and reports provided in connection with the performance of this Limited Phase II Environmental Field Investigation are subject to the following limitations.

This Limited Phase II EFI was based on Diversified Technology Consultant's (DTC) observation of the site condition and a review of information provided by State and local officials and information and representations made by other parties and on information contained in the files of State and/or local agencies made available to DTC at the time of the site assessment. To the extent that such files are missing, incomplete or not provided, DTC is not responsible. Although there may have been some degree of overlap in the information provided by these various sources, DTC did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of this site assessment.

The purpose of this report is to assess the physical characteristics of the subject site with respect to the presence of environmental hazardous substances, such as waste or petroleum and chemical products and wastes as defined in Connecticut General Statutes Section 22a-452. No specific attempt was made to check the compliance of present or past owners or operators of the site with Federal, State or local laws and regulations, environmental or otherwise.

DTC's work presented herein was performed in accordance with generally accepted practices of other consultants undertaking similar studies at the same time and in the same geographical area, and DTC observed that degree of care and skill generally exercised by other consultants under similar circumstances and conditions. DTC's findings and conclusions must be considered not as scientific certainties, but as our professional opinion concerning the significance of the limited data gathered during the course of the investigation. Specifically, DTC does not and cannot represent that the site contains no hazardous material, oil, or other latent condition beyond that observed by DTC during this limited investigation.

APPENDIX A

Boring Logs

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet 1 of 12	Date started: 5/18/01 Date Completed: 5/18/01	BORING No. B1
	Project: Soil Investigation Location: 200 Wintergreen Ave., New Haven, CT			Method of investigation: Hollow Stem Auger/Split Spoon

Project No.: 98-371-104	Drilling Co.: CTB	Driller: Mike	Drill Rig:	Weather:
P. Manager: J. Figurelli	Geologist: John Figurelli	D. Helper:	CME 75	Sunny, 75

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Well Details	Groundwater and Other Observations
0	1	0-2	4		20	Brown fine to coarse SAND, some fine to coarse Gravel, dry, loose	0		
			5						
			7						
2			8						
2	2	2-4	7		18	Light brown fine to coarse SAND, little fine to coarse Gravel, dry, loose	0		
			9						
			13						
4			15						
4	3	4-6	15		18	Red-brown medium to coarse SAND, trace fine to coarse Gravel, dry, loose	0		
			12						
			14						
6			15						
6	4	6-8	14		18	Red-brown medium to coarse SAND, trace fine to coarse Gravel, dry, loose	0		
			14						
			12						
8			17						
						end of boring			

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = _____
N = ASTM D1586

Backfill Well Key
Grout, Native Fill, Sand, Bentonite

Comments:
Sample collected from 2-4 feet, 9:25 am

DIVERSIFIED TECHNOLOGY CONSULTANTS	**Subsurface Log**	**Sheet** 2 of 12	***Date started:*** 5/18/01 ***Date Completed:*** 5/18/01	**BORING No. B2**
	Project: Soil Investigation ***Location:*** 200 Wintergreen Ave., New Haven, CT			***Method of investigation:*** Hollow Stem Auger/Split Spoon
Project No.: 98-371-104 ***P. Manager:*** J. Figurelli	***Drilling Co.:*** CTB ***Geologist:*** John Figurelli	***Driller:*** Mike ***D. Helper:***	***Drill Rig:*** CME 75	***Weather:*** Sunny, 75

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Well Details	Groundwater and Other Observations
0	1	0-2	8		20	Red-brown fine to coarse SAND, some fine to coarse Gravel, dry, loose	3.6		
			10						
			10						
2			10						
2	2	2-4	8		20	Red-brown fine to coarse SAND, trace fine to coarse Gravel, dry, loose	0		
			5						
			8						
4			20						
4	3	4-6	20		18	Red-brown fine to coarse SAND, trace fine to coarse Gravel, dry, loose	0		
			12						
			15						
6			15						
6	4	6-8	20		18	Red-brown fine to coarse SAND, trace fine to coarse Gravel, dry, loose	0		
			17						
			15						
8			18						
						end of boring			

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = _____
N = ASTM D1586

Backfill Well Key
Grout, Native Fill, Sand, Bentonite

Comments:
Sample collected from 0-2 feet, 10:00 am

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet 3 of 12	Date started: 5/18/01 Date Completed: 5/18/01	BORING No. B3
	Project: Soil Investigation Location: 200 Wintergreen Ave., New Haven, CT			Method of investigation: Hollow Stem Auger/Split Spoon

Project No.: 98-371-104	Drilling Co.: CTB	Driller: Mike	Drill Rig: CME 75	Weather: Sunny, 75
P. Manager: J. Figurelli	Geologist: John Figurelli	D. Helper:		

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Well Details	Groundwater and Other Observations
0	1	0-2	6		20	Brown fine to coarse SAND, some fine to coarse Gravel, dry, loose	8.6		
			9						
			12						
2			15			Red-brown fine to coarse SAND, dry, loose	1.2		
2	2	2-4	13		18	Red-brown fine to coarse SAND, trace fine to coarse gravel, dry, loose	0		
			12						
			10						
4			10						
4	3	4-6	8		16	Red-brown fine to coarse SAND, trace fine to coarse gravel, dry, loose	0		
			8						
			6						
6			4						
6	4	6-8	3		18	Red-brown fine to coarse SAND, trace fine to coarse gravel, dry, loose	0		
			2						
			3						
8			2						
						end of boring			

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = _____
N = ASTM D1586

Backfill Well Key
Grout, Native Fill, Sand, Bentonite

Comments:
Sample collected from 2-4 feet, 10:45 am

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet 4 of 12	Date started: 5/18/01 Date Completed: 5/18/01	BORING No. B4
	Project: Soil Investigation Location: 200 Wintergreen Ave., New Haven, CT			Method of investigation: Hollow Stem Auger/Split Spoon

Project No.: 98-371-104	Drilling Co.: CTB	Driller: Mike	Drill Rig: CME 75	Weather: Sunny, 75
P. Manager: J. Figurelli	Geologist: John Figurelli	D. Helper:		

Depth (ft.)	Sample No.	Sample Depth (ft.)	Sample Blows per 6"	Sample "N"	Recovery (in.)	Sample Description	Field Analytical Readings	Well Details	Groundwater and Other Observations
0	1	0-2	7		20	Red-brown fine to coarse SAND, dry, loose	0		
			7						
			13						
2			12						
2	2	2-4	7		18	Red-brown fine to coarse SAND, dry, loose	0		
			7						
			10						
4			13						
						end of boring			

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = _____
N = ASTM D1586

Backfill Well Key
Grout, Native Fill, Sand, Bentonite

Comments:
Sample collected from 0-2 feet, 11:15 am

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet 5 of 12	Date started: 5/18/01 Date Completed: 5/18/01	BORING No. B5
	Project: Soil Investigation Location: 200 Wintergreen Ave., New Haven, CT			Method of investigation: Hollow Stem Auger/Split Spoon

Project No.: 98-371-104	Drilling Co.: CTB	Driller: Mike	Drill Rig: CME 75	Weather: Sunny, 75
P. Manager: J. Figurelli	Geologist: John Figurelli	D. Helper:		

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Well Details	Groundwater and Other Observations
0	1	0-2	4		18	Red-brown fine to coarse SAND, trace fine to coarse Gravel, dry, loose	0		
			8						
			10						
2			6						
2	2	2-4	6		18	Red-brown fine to coarse SAND, some fine to coarse Gravel, dry, loose	0		
			15						
			20						
4			20						
4	3	4-6	40		20	Brown fine to coarse SAND, some fine to coarse Gravel, dry, dense	0		
			20						
			20						
6			20						
						end of boring			

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = _____
N = ASTM D1586

Backfill Well Key
Grout, Native Fill, Sand, Bentonite

Comments:
Sample collected from 4-6 feet, 11:50 am

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet 6 of 12	Date started: 5/18/01 Date Completed: 5/18/01	BORING No. B6
	Project: Soil Investigation Location: 200 Wintergreen Ave., New Haven, CT			Method of investigation: Hollow Stem Auger/Split Spoon

Project No.: 98-371-104	Drilling Co.: CTB	Driller: Mike	Drill Rig:	Weather:
P. Manager: J. Figurelli	Geologist: John Figurelli	D. Helper:	CME 75	Sunny, 75

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Well Details	Groundwater and Other Observations
0	1	0-2	6		20	Gravel	0		
			10						
			9			Red fine to medium SAND, trace fine to coarse			
5			8			Gravel, dry, loose			
5	2	5-7	6		16	Brown medium to coarse SAND, some fine to coarse	0		
			21			Gravel, dry, loose			
			14						
10			16						
10	3	10-12	4		16	Light brown medium to coarse SAND, dry, loose	0		
			5						
			10						
15			14						
15	4	15-17	3		20	Red-brown fine to coarse SAND, dry, loose	0		
			3						
			5						
20			8			Red-brown fine to medium SAND, dry, loose			
20	5	20-22	6		24	Red-brown fine to medium SAND, dry, loose	0		
			7						
			8						
25			8						
25	6	25-27	4		16	Red-brown fine to coarse SAND, dry, loose	0		
			5						
			6						
30			8						
30	7	30-32	5		22	Red-brown fine to coarse SAND, moist, loose	0		
			8						
			9						
32			9						
32	8	32-34	6		16	Red-brown fine to coarse SAND, wet, loose	0		groundwater @ 33'
			6						
			7						
34			8						
						end of boring			

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = _____
N = ASTM D1586

Backfill Well Key
Grout, Native Fill, Sand, Bentonite

Comments:
Sample collected from 32-34 feet, 1:15 pm

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet 7 of 12	Date started: 5/18/01 Date Completed: 5/18/01	BORING No. B7
	Project: Soil Investigation Location: 200 Wintergreen Ave., New Haven, CT			Method of investigation: Hollow Stem Auger/Split Spoon

Project No.: 98-371-104	Drilling Co.: CTB	Driller: Mike	Drill Rig:	Weather:
P. Manager: J. Figurelli	Geologist: John Figurelli	D. Helper:	CME 75	Sunny, 75

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Well Details	Groundwater and Other Observations
0	1	0-2	5		16	Red-brown fine to coarse SAND, some fine to coarse Gravel, dry, loose	0		
			7						
			6						
2			7						
2	2	2-4	9		12	Red-brown coarse Sand and Gravel, dry, loose	0		
			10						
			9						
4			9						
						end of boring			

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = _____
N = ASTM D1586

Backfill Well Key
Grout, Native Fill, Sand, Bentonite

Comments:
Sample collected from 0-2 feet, 2:10 pm

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet 8 of 12	Date started: 5/18/01 Date Completed: 5/18/01	BORING No. B8
	Project: Soil Investigation Location: 200 Wintergreen Ave., New Haven, CT			Method of investigation: Hollow Stem Auger/Split Spoon

Project No.: 98-371-104	Drilling Co.: CTB	Driller: Mike	Drill Rig:	Weather:
P. Manager: J. Figurelli	Geologist: John Figurelli	D. Helper:	CME 75	Sunny, 75

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Well Details	Groundwater and Other Observations
0	1	0-2	3		16	Brown fine to coarse SAND, little fine to coarse Gravel, dry, loose	0		
			5						
			5						
2			5						
2	2	2-4	6		16	Brown fine to coarse SAND, little fine to coarse Gravel, dry, loose	0		
			9						
			11						
4			13						
						end of boring			

Sample Types:

S=Split Spoon: _____ T= Shelby Tube: _____

R= Rock Core: _____ O = _____

N = ASTM D1586

Backfill Well Key

Grout — Native Fill

Sand — Bentonite

Comments:

Sample collected from 2-4 feet, 2:25 pm

DIVERSIFIED TECHNOLOGY CONSULTANTS

Subsurface Log

Sheet 9 of 12

Date started: 5/18/01
Date Completed: 5/18/01

BORING No. B9

Project: Soil Investigation
Location: 200 Wintergreen Ave., New Haven, CT

Method of investigation: Hollow Stem Auger/Split Spoon

Project No.: 98-371-104
P. Manager: J. Figurelli
Drilling Co.: CTB
Geologist: John Figurelli
Driller: Mike
D. Helper:
Drill Rig: CME 75
Weather: Sunny, 75

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Well Details	Groundwater and Other Observations
0	1	0-2	2		16	Brown fine to coarse SAND, some fine to coarse Gravel, dry, loose	0		
			5						
			6						
2			5						
2	2	2-4	3		16	Brown fine to coarse SAND, some fine to coarse Gravel, dry, loose	0		
			3						
			4						
4			4						
						end of boring			

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = _____
N = ASTM D1586

Backfill Well Key
Grout, Native Fill, Sand, Bentonite

Comments:
Sample collected from 0-2 feet, 2:40 pm

DIVERSIFIED TECHNOLOGY CONSULTANTS	**Subsurface Log**	**Sheet** 10 of 12	***Date started:*** 5/18/01 ***Date Completed:*** 5/18/01	**BORING No. B10**
	Project: Soil Investigation ***Location:*** 200 Wintergreen Ave., New Haven, CT			***Method of investigation:*** Hollow Stem Auger/Split Spoon

Project No.: 98-371-104	***Drilling Co.:*** CTB	***Driller:*** Mike	***Drill Rig:*** CME 75	***Weather:*** Sunny, 75
P. Manager: J. Figurelli	***Geologist:*** John Figurelli	***D. Helper:***		

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Well Details	Groundwater and Other Observations
0	1	0-2	5		16	Brown fine to coarse SAND, some fine to coarse Gravel, trace asphalt, dry, loose	0		
			11						
			9						
2			8						
2	2	2-4	7		16	Brown fine to coarse SAND, some fine to coarse Gravel, some concrete, dry, loose	0		
			9						
			45						
4			8						
4	3	4-6	7		18	Red-brown fine to coarse SAND, little fine to coarse Gravel, dry, loose	0		
			8						
			5						
6			5						
6	4	6-8	5		0		0		
			7						
			9						
8			9						
8	5	8-10	5		16	Red-brown fine to medium SAND, dry, loose	0		
			7						
			8						
10			7						
						end of boring			

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = _____
N = ASTM D1586

Backfill Well Key
Grout, Native Fill, Sand, Bentonite

Comments:
Sample collected from 4-6 feet, 3:30 pm

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet 11 of 12	Date started: 5/18/01 Date Completed: 5/18/01	BORING No. B11
	Project: Soil Investigation Location: 200 Wintergreen Ave., New Haven, CT			Method of investigation: Hand-driven Split Spoon

Project No.: 98-371-104	Drilling Co.: CTB	Driller: Mike	Drill Rig:	Weather: Sunny, 75
P. Manager: J. Figurelli	Geologist: John Figurelli	D. Helper:		

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Well Details	Groundwater and Other Observations
0	1	0-2			16	Brown fine to coarse SAND, little Silt, moist, loose	0		
2	2	2-4			16	Brown fine to coarse SAND, little Silt, wet, loose	0		groundwater @ 2'
4						end of boring			

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = _____
N = ASTM D1586

Backfill Well Key
Grout, Native Fill, Sand, Bentonite

Comments:
Sample collected from 2-4 feet, 4:05 pm

DIVERSIFIED TECHNOLOGY CONSULTANTS	Subsurface Log	Sheet 11 of 12	Date started: 5/18/01 Date Completed: 5/18/01	BORING No. B12
	Project: Soil Investigation Location: 200 Wintergreen Ave., New Haven, CT			Method of investigation: Hand-driven Split Spoon

Project No.: 98-371-104	Drilling Co.: CTB	Driller: Mike	Drill Rig:	Weather: Sunny, 75
P. Manager: J. Figurelli	Geologist: John Figurelli	D. Helper:		

Depth (ft.)	Sample No.	Sample Depth (ft.)	Blows per 6"	"N"	Recovery (in.)	Sample Description	Field Analytical Readings	Well Details	Groundwater and Other Observations
0	1	0-2			16	Brown fine to coarse SAND, little Silt, moist, loose	0		
2						Brown fine to coarse SAND, little Silt, wet, loose			groundwater @ 1.5'
						end of boring			

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = _____
N = ASTM D1586

Backfill Well Key
Grout, Native Fill, Sand, Bentonite

Comments:
Sample collected from 1-2 feet, 4:20 pm

APPENDIX B

Laboratory Results

COMPLETE ENVIRONMENTAL TESTING, INC.

80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet@cetlabs.com

RECEIVED
MAY 3 1 2001
DTC

May 30, 2001

Mr. John Figurelli
Diversified Technology Corp.
556 Washington Ave.
North Haven, CT 06473-1121

Project: New Haven
Project #: 98-371-104
CET #: 01050847
Soil: 371-B-1 2-4; 371-B-10 4-6; 371-B-11 2-4; 371-B-12 1-2; 371-B-2 0-2; 371-B-3 2-4; 371-B-4 0-2; 371-B-5 4-6; 371-B-6 32-34; 371-B-7 0-2; 371-B-8 2-4; 371-B-9 0-2
Collection Date(s): 5/18/01

PREP ANALYSIS:

Acid Digestion of Soils [EPA 3050]

	371-B-2 0-2	371-B-3 2-4	371-B-6 32-34	371-B-9 0-2	371-B-10 4-6
Acid Digestion of Soils	Completed [5/23/01]	Completed [5/23/01]	Completed [5/23/01]	Completed [5/23/01]	Completed [5/23/01]

Acid Digestion of Soils [EPA 3050]

	371-B-11 2-4
Acid Digestion of Soils	Completed [5/23/01]

Accelerated Solvent Extraction [EPA 3545]

	371-B-2 0-2	371-B-3 2-4	371-B-6 32-34	371-B-9 0-2	371-B-10 4-6
Accelerated Solvent Extraction	Completed [5/22/01]	Completed [5/22/01]	Completed [5/22/01]	Completed [5/22/01]	Completed [5/22/01]

Accelerated Solvent Extraction [EPA 3545]

	371-B-11 2-4
Accelerated Solvent Extraction	Completed [5/22/01]

SPLP, Metals [EPA 1312]

	371-B-2 0-2	371-B-3 2-4	371-B-6 32-34	371-B-9 0-2	371-B-10 4-6
SPLP, Metals	Completed [5/22/01]	Completed [5/22/01]	Completed [5/22/01]	Completed [5/22/01]	Completed [5/22/01]

NOTES:
[] Indicates Date Prep Test Completed; ND is Not Detected.

SPLP, Metals [EPA 1312]

	371-B-11 2-4
SPLP, Metals	Completed [5/22/01]

ANALYSIS:

Conn. Extractable TPH [CT DEP] Units: mg/kg Analysis Date: 5/25/01

	371-B-1 2-4	371-B-2 0-2	371-B-3 2-4	371-B-4 0-2	371-B-5 4-6	371-B-6 32-34
Conn. Extractable TPH	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50

Conn. Extractable TPH [CT DEP] Units: mg/kg Analysis Date: 5/25/01

	371-B-7 0-2	371-B-8 2-4	371-B-9 0-2	371-B-10 4-6	371-B-11 2-4	371-B-12 1-2
Conn. Extractable TPH	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50	ND < 50

SPLP Mercury [EPA 7470] Units: mg/l Analysis Date: 5/24/01

	371-B-2 0-2	371-B-3 2-4	371-B-6 32-34	371-B-9 0-2	371-B-10 4-6
SPLP Mercury	ND < 0.002	ND < 0.002	ND < 0.002	ND < 0.002	ND < 0.002

SPLP Mercury [EPA 7470] Units: mg/l Analysis Date: 5/24/01

	371-B-11 2-4
SPLP Mercury	ND < 0.002

Total Mercury [EPA 7471] Units: mg/kg (As Rec) Analysis Date: 5/23/01

	371-B-2 0-2	371-B-3 2-4	371-B-6 32-34	371-B-9 0-2	371-B-10 4-6
Total Mercury	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20

Total Mercury [EPA 7471] Units: mg/kg (As Rec) Analysis Date: 5/23/01

	371-B-11 2-4
Total Mercury	ND < 0.20

Total Metals [EPA 6010] Units: mg/kg (As Rec) Analysis Date: 5/24/01

	371-B-2 0-2	371-B-3 2-4	371-B-6 32-34	371-B-9 0-2	371-B-10 4-6
Lead	9.9	4.0	2.5	7.1	4.1
Selenium	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0
Cadmium	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0
Chromium	4.5	5.1	4.4	5.9	5.4
Arsenic	ND < 2.0	ND < 2.0	ND < 2.0	ND < 2.0	ND < 2.0
Barium	19	13	17	18	24
Silver	ND < 2.0	ND < 2.0	ND < 2.0	ND < 2.0	ND < 2.0

Notes:
[ ]Indicates Date Prep Test Completed; ND is Not Detected.

Total Metals [EPA 6010] Units: mg/kg (As Rec) Analysis Date: 5/24/01

	371-B-11 2-4
Lead	8.8
Selenium	ND < 1.0
Cadmium	ND < 1.0
Chromium	7.3
Arsenic	ND < 2.0
Barium	19
Silver	ND < 2.0

SPLP Metals [EPA 6010] Units: mg/l Analysis Date: 5/22/01

	371-B-2 0-2	371-B-3 2-4	371-B-6 32-34	371-B-9 0-2	371-B-10 4-6
Lead	ND < 0.013	ND < 0.013	ND < 0.013	ND < 0.013	ND < 0.013
Selenium	ND < 0.01	ND < 0.01	ND < 0.01	ND < 0.01	ND < 0.01
Cadmium	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005
Chromium	ND < 0.05	ND < 0.05	ND < 0.05	ND < 0.05	ND < 0.05
Arsenic	ND < 0.05	ND < 0.05	ND < 0.05	ND < 0.05	ND < 0.05
Barium	0.53	0.26	0.30	0.25	0.25
Silver	ND < 0.02	ND < 0.02	ND < 0.02	ND < 0.02	ND < 0.02

SPLP Metals [EPA 6010] Units: mg/l Analysis Date: 5/22/01

	371-B-11 2-4
Lead	ND < 0.013
Selenium	ND < 0.01
Cadmium	ND < 0.005
Chromium	ND < 0.05
Arsenic	ND < 0.05
Barium	0.24
Silver	ND < 0.02

EPA 8270 Semi-Volatile Organics [EPA 8270] Units: ug/kg (Dry Wt) Analysis Date: 5/23/01

	371-B-2 0-2	371-B-3 2-4	371-B-6 32-34	371-B-9 0-2	371-B-10 4-6
Pyridine	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
n-Nitroso-dimethylamine	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
bis(2-Chloroethyl)ether	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Phenol	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
2-Chlorophenol	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
1,3-Dichlorobenzene	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
1,4-Dichlorobenzene	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
1,2-Dichlorobenzene	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
bis(2-chloroisopropyl)ether	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Hexachloroethane	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
N-Nitroso-di-n-propylamine	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
2-Methyl Phenol	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
3+4 Methyl Phenol	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Nitrobenzene	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Isophorone	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
2-Nitrophenol	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200

Notes:
[ ]Indicates Date Prep Test Completed; ND is Not Detected.

EPA 8270 Semi-Volatile Organics [EPA 8270] Units: ug/kg (Dry Wt) Analysis Date: 5/23/01

	371-B-2 0-2	371-B-3 2-4	371-B-6 32-34	371-B-9 0-2	371-B-10 4-6
2,4-Dimethylphenol	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
bis(2-Chloroethoxy)methane	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
2,4-Dichlorophenol	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
1,2,4-Trichlorobenzene	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Naphthalene	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
2,6-Dichlorophenol	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Hexachlorobutadiene	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
4-Chloro-3-methylphenol	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Hexachlorocyclopentadiene	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
2,4,6-Trichlorophenol	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
2,4,5-Trichlorophenol	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
2-Chloronaphthalene	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Acenaphthylene	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Dimethylphthalate	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
2,6-Dinitrotoluene	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Acenaphthene	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
2,4-Dinitrophenol	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
2,4-Dinitrotoluene	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
4-Nitrophenol	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
2,3,4,6-Tetrachlorophenol	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Fluorene	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
4-Chlorophenyl-phenylether	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Diethylphthalate	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
4,6-Dinitro-2-methylphenol	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
n-Nitrosodiphenylamine	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Azobenzene	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
4-Bromophenyl-phenylether	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Hexachlorobenzene	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Pentachlorophenol	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Benzidine	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Phenanthrene	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Anthracene	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Carbazole	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Di-n-butylphthalate	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Fluoranthene	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Pyrene	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Butylbenzylphthalate	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
3,3-Dichlorobenzidine	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Benzo[a]anthracene	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Chrysene	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
bis(2-Ethylhexyl)phthalate	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Di-n-octylphthalate	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Benzo[b]fluoranthene	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Benzo[k]fluoranthene	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Benzo[a]pyrene	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Indeno[1,2,3-cd]pyrene	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Dibenz[a,h]anthracene	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200
Benzo[g,h,i]perylene	ND < 200	ND < 200	ND < 200	ND < 200	ND < 200

Notes:
[ ]Indicates Date Prep Test Completed; ND is Not Detected.

EPA 8270 Semi-Volatile Organics [EPA 8270] Units: ug/kg (Dry Wt) Analysis Date: 5/23/01

	371-B-11 2-4
Pyridine	ND < 200
n-Nitroso-dimethylamine	ND < 200
bis(2-Chloroethyl)ether	ND < 200
Phenol	ND < 200
2-Chlorophenol	ND < 200
1,3-Dichlorobenzene	ND < 200
1,4-Dichlorobenzene	ND < 200
1,2-Dichlorobenzene	ND < 200
bis(2-chloroisopropyl)ether	ND < 200
Hexachloroethane	ND < 200
N-Nitroso-di-n-propylamine	ND < 200
2-Methyl Phenol	ND < 200
3+4 Methyl Phenol	ND < 200
Nitrobenzene	ND < 200
Isophorone	ND < 200
2-Nitrophenol	ND < 200
2,4-Dimethylphenol	ND < 200
bis(2-Chloroethoxy)methane	ND < 200
2,4-Dichlorophenol	ND < 200
1,2,4-Trichlorobenzene	ND < 200
Naphthalene	ND < 200
2,6-Dichlorophenol	ND < 200
Hexachlorobutadiene	ND < 200
4-Chloro-3-methylphenol	ND < 200
Hexachlorocyclopentadiene	ND < 200
2,4,6-Trichlorophenol	ND < 200
2,4,5-Trichlorophenol	ND < 200
2-Chloronaphthalene	ND < 200
Acenaphthylene	ND < 200
Dimethylphthalate	ND < 200
2,6-Dinitrotoluene	ND < 200
Acenaphthene	ND < 200
2,4-Dinitrophenol	ND < 200
2,4-Dinitrotoluene	ND < 200
4-Nitrophenol	ND < 200
2,3,4,6-Tetrachlorophenol	ND < 200
Fluorene	ND < 200
4-Chlorophenyl-phenylether	ND < 200
Diethylphthalate	ND < 200
4,6-Dinitro-2-methylphenol	ND < 200
n-Nitrosodiphenylamine	ND < 200
Azobenzene	ND < 200
4-Bromophenyl-phenylether	ND < 200
Hexachlorobenzene	ND < 200
Pentachlorophenol	ND < 200
Benzidine	ND < 200
Phenanthrene	ND < 200
Anthracene	ND < 200
Carbazole	ND < 200
Di-n-butylphthalate	ND < 200

Notes:
[ ]Indicates Date Prep Test Completed; ND is Not Detected.

EPA 8270 Semi-Volatile Organics [EPA 8270] Units: ug/kg (Dry Wt) Analysis Date: 5/23/01

	371-B-11 2-4
Fluoranthene	ND < 200
Pyrene	ND < 200
Butylbenzylphthalate	ND < 200
3,3-Dichlorobenzidine	ND < 200
Benzo[a]anthracene	ND < 200
Chrysene	ND < 200
bis(2-Ethylhexyl)phthalate	ND < 200
Di-n-octylphthalate	ND < 200
Benzo[b]fluoranthene	ND < 200
Benzo[k]fluoranthene	ND < 200
Benzo[a]pyrene	ND < 200
Indeno[1,2,3-cd]pyrene	ND < 200
Dibenz[a,h]anthracene	ND < 200
Benzo[g,h,i]perylene	ND < 200

Volatile Organics [EPA 8260] Units: ug/kg Analysis Date: 5/23/01

	371-B-1 2-4	371-B-2 0-2	371-B-3 2-4	371-B-4 0-2	371-B-5 4-6	371-B-6 32-34
Dichlorodifluoromethane	ND < 25	ND < 25	ND < 25	ND < 25	ND < 25	ND < 25
Chloromethane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Vinyl Chloride	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Bromomethane	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10
Chloroethane	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10
Trichlorofluoromethane	ND < 25	ND < 25	ND < 25	ND < 25	ND < 25	ND < 25
1,1-Dichloroethene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Methylene Chloride	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Methyl-t-Butyl Ether (MTBE)	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10
trans-1,2-Dichloroethene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,1-Dichloroethane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
2,2-Dichloropropane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
cis-1,2-Dichloroethene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Bromochloromethane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Chloroform	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,1,1-Trichloroethane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Carbon Tetrachloride	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,1-Dichloropropene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Benzene	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0
1,2-Dichloroethane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Trichloroethene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,2-Dichloropropane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Dibromomethane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Bromodichloromethane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
cis-1,3-Dichloropropene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Toluene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
trans-1,3-Dichloropropene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,1,2-Trichloroethane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Tetrachloroethene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,3-Dichloropropane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Dibromochloromethane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,2-Dibromoethane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0

Notes:
[ ]Indicates Date Prep Test Completed; ND is Not Detected.

Volatile Organics [EPA 8260] Units: ug/kg Analysis Date: 5/23/01

	371-B-1 2-4	371-B-2 0-2	371-B-3 2-4	371-B-4 0-2	371-B-5 4-6	371-B-6 32-34
Chlorobenzene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,1,1,2-Tetrachloroethane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Ethylbenzene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
m+p Xylenes	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
o-Xylene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Styrene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Bromoform	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Isopropylbenzene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,1,2,2-Tetrachloroethane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Bromobenzene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,2,3-Trichloropropane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
n-Propylbenzene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
2-Chlorotoluene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
4-Chlorotoluene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,3,5-Trimethylbenzene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
tert-Butylbenzene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,2,4-Trimethylbenzene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
sec-Butylbenzene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,3-Dichlorobenzene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
4-Isopropyltoluene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,4-Dichlorobenzene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,2-Dichlorobenzene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
n-Butylbenzene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,2-Dibromo-3-Chloropropane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,2,4-Trichlorobenzene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Hexachlorobutadiene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Naphthalene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,2,3-Trichlorobenzene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0

Volatile Organics [EPA 8260] Units: ug/kg Analysis Date: 5/23/01

	371-B-7 0-2	371-B-8 2-4	371-B-9 0-2	371-B-10 4-6	371-B-11 2-4	371-B-12 1-2
Dichlorodifluoromethane	ND < 25	ND < 25	ND < 25	ND < 25	ND < 25	ND < 25
Chloromethane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Vinyl Chloride	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Bromomethane	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10
Chloroethane	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10
Trichlorofluoromethane	ND < 25	ND < 25	ND < 25	ND < 25	ND < 25	ND < 25
1,1-Dichloroethene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Methylene Chloride	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Methyl-t-Butyl Ether (MTBE)	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10
trans-1,2-Dichloroethene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,1-Dichloroethane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
2,2-Dichloropropane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
cis-1,2-Dichloroethene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Bromochloromethane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Chloroform	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,1,1-Trichloroethane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Carbon Tetrachloride	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,1-Dichloropropene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Benzene	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0

Notes:
[ ]Indicates Date Prep Test Completed; ND is Not Detected.

Volatile Organics [EPA 8260] Units: ug/kg Analysis Date: 5/23/01

	371-B-7 0-2	371-B-8 2-4	371-B-9 0-2	371-B-10 4-6	371-B-11 2-4	371-B-12 1-2
1,2-Dichloroethane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Trichloroethene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,2-Dichloropropane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Dibromomethane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Bromodichloromethane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
cis-1,3-Dichloropropene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Toluene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
trans-1,3-Dichloropropene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,1,2-Trichloroethane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Tetrachloroethene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,3-Dichloropropane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Dibromochloromethane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,2-Dibromoethane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Chlorobenzene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,1,1,2-Tetrachloroethane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Ethylbenzene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
m+p Xylenes	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
o-Xylene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Styrene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Bromoform	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Isopropylbenzene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,1,2,2-Tetrachloroethane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Bromobenzene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,2,3-Trichloropropane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
n-Propylbenzene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
2-Chlorotoluene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
4-Chlorotoluene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,3,5-Trimethylbenzene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
tert-Butylbenzene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,2,4-Trimethylbenzene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
sec-Butylbenzene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,3-Dichlorobenzene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
4-Isopropyltoluene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,4-Dichlorobenzene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,2-Dichlorobenzene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
n-Butylbenzene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,2-Dibromo-3-Chloropropane	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,2,4-Trichlorobenzene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Hexachlorobutadiene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Naphthalene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
1,2,3-Trichlorobenzene	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0

Sincerely,

David Ditta
Laboratory Director

Notes:
[ ]Indicates Date Prep Test Completed; ND is Not Detected.

COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

80 Lupes Drive
Stratford, CT 06615
Tel (203) 377-9984
FAX (203) 377-9952

COMPANY NAME AND ADDRESS: DTC, 556 Washington Ave, North Haven CT

REPORT TO:	PROJECT #:	PROJECT LOCATION:	PURCHASE ORDER #:	SAMPLED BY:
John Figurelli	98-371-104	New Haven		JAF

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
John Figurelli	5/18	17:25	[illegible]	5/18/01	17:25
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

ANALYSIS REQUIRED

SAMPLE #	SAMPLE LOCATION	DATE	TIME	SAMPLE MATRIX	PRIORITY YES / NO	# OF CONTAINERS	VOC 8260	ETPH	SVOC 8270	8 RCRA Total	8 RCRA SPLP									
371-B-1 (2-4)		5/18/01	9:25	S	N	1	X	X												
371-B-2 (0-2)		5/18	10:00	S		2	X	X	X	X	X									
371-B-3 (2-4)			10:45			2	X	X	X	X	X									
371-B-4 (0-2)			11:15			1	X	X												
371-B-5 (4-6)			11:50			1	X	X												
371-B-6 (32-34)			13:15			2	X	X	X	X	X									
371-B-7 (0-2)			14:10			1	X	X												
371-B-8 (2-4)			14:25			1	X	X												
371-B-9 (0-2)			14:40			2	X	X	X	X	X									

SPECIAL INSTRUCTIONS

COMMENTS

COMPLETE ENVIRONMENTAL TESTING, INC.

10 Lepe Drive
Stratford, CT 06615
Tel (203) 377-9984
FAX (203) 377-9952

CHAIN OF CUSTODY

COMPANY NAME AND ADDRESS DTC
556 Washington Ave
North Haven CT

REPORT TO:	PROJECT #:	PROJECT LOCATION:	PURCHASE ORDER #:	SAMPLED BY:
John Figuroli	98-371-104	New Haven		JHF

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
[signature]	5/18	17:25	[signature]	5/18	1725
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

ANALYSIS REQUIRED

SAMPLE #	SAMPLE LOCATION	DATE	TIME	SAMPLE MATRIX	PRIORITY YES / NO	# OF CONTAINERS	VOC 8260	ETPH	SVOC 8270	8 RCRA Total	8 RCRA SPLP
371-B-10 (4-6)		5/18/01	15:30	S	N	2	X	X	X	X	X
371-B-4 (2-4)			16:05			2	X	X	X	X	X
371-B-12 (0-2)			16:20			1	X	X			

SPECIAL INSTRUCTIONS

COMMENTS

U.S. ARMY RESERVE
STORMWATER-POLLUTION PREVENTION PLAN (UPDATE)
(SWP3)

SSG George D. Libby USARC Facility
200 Wintergreen Avenue
New Haven, Connecticut
CT007

Drafted by

U.S. GEOLOGICAL SURVEY
Water Resources Division
Connecticut District

for

94th REGIONAL SUPPORT COMMAND
Devens, Massachusetts

6/19/2002

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
AT	Annual Training
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
MI	Military Intelligence
MP	Military Police
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	U.S. Army Reserve Center
USEPA	U.S. Environmental Protection Agency
USGS	U.S. Geological Survey
UST	Underground Storage Tank
WRD	Water Resources Division

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6.0 APPENDIX

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 Connecticut Department of Environmental Protection (CTDEP), Bureau of Water Management, Permitting, Enforcement, and Remediation Division, Hartford, Connecticut administers stormwater permitting in the State (Stormwater Permit Manual, Thompson Publishing Group Inc., written communication, January 1995). Two General Permits (GPs) for stormwater dischargers exist, one for the discharge of stormwater associated with industrial activity and the other for stormwater runoff and dewatering wastewater discharges from construction sites. 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 or call your state DEP representative.

The State of Connecticut will be adopting the USEPA "No Exposure" exemption only for their category 10 light industry classified sites. Category 2 heavy industry classified sites will not be eligible for this exemption regardless of the stormwater exposure potential of the site, (Chris Stone, oral communication, April 11, 2000).

The State of Connecticut will be adopting the USEPA "No Exposure" exemption but has not done so to date (oral communication, Chris Stone, CTDEP, June 2002).

1.2 FACILITY DESCRIPTION

The SSG George D. Libby U.S. Army Reserve Center (USARC) facility is located on Wintergreen Avenue in New Haven, Connecticut *(PLATES 1 & 2)*. The facility is under the control of the 395th Quarter Master Battalion (S&S) Supply and Service, and consists of an administrative building and one five-bay Organizational Maintenance and Support (OMS) shop *(PLATE 3)* with one newly paved Military Equipment Park (MEP) (*PLATE 23*). The facility encompasses about 5.13 acres at an approximate elevation of 50 feet above mean sea level (figure 1.2). Geographic coordinates for the facility are latitude 41° 20′ 06″ North and longitude 72° 57′ 18″ West. The OMS shop and MEP are CTDEP-regulated activities.

The primary mission of the OMS shop is to provide organizational and unit support maintenance for the 439th and 344th Military Police (MP) Companies as well as two Military Intelligence (MI) Detachments, the 3423rd and 3414th. Maintenance conducted at the site includes support of military vehicles and related equipment performed in cooperation with Army Reserve unit personnel. The OMS performs minor mechanical repairs and maintenance; major work is sent to the Area Maintenance Support Activity (AMSA) 69 (G) facilities in Milford, CT. Parking in the MEP is limited to unit vehicles.

This USARC facility has recently undergone some major site and drainage improvements. A gravel MEP was eliminated and the three existing MEPs were consolidated into one bituminous paved MEP, with retaining

walls to control erosion and surrounded with a security fence, at the southern portion of the site. A retaining wall constructed behind the OMS in the MEP has created upper and lower levels of MEP parking (figure 3.1). One existing drainage system was removed and a new system was installed with new storm drain catch basins in the MEP (*PLATES 36, 37, 38)* and a trench drain and catch basin in the Privately Owned Vehicle (POV) 2 parking area (*PLATE 39*). Bituminous walkways were installed around the administrative building, new cement sidewalks per town specifications were installed along Wintergreen Avenue and the POV parking in front of the facility was eliminated (figure 3.1).

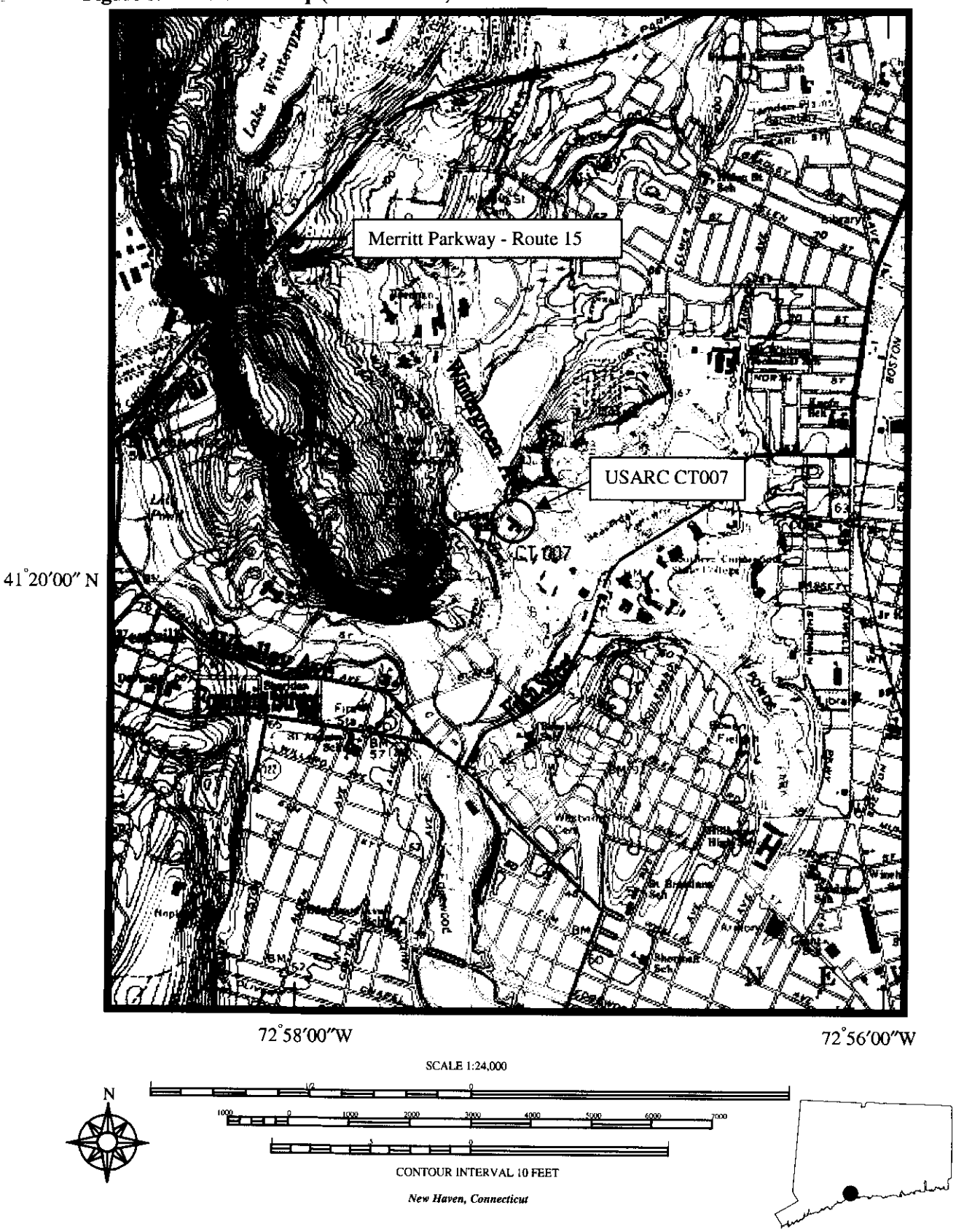
1.3 PLAN DEVELOPMENT

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 stormwater 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.

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) 796-2238	• 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.
Regional Facility Manager (Connecticut) (860) 627-2462	• Reviews and approves the SWP3 and any modifications or updates to the plan.
SSG Libby USARC Facility Coordinator (203) 389-7900	• 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 (203) 389-7948	• 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)]

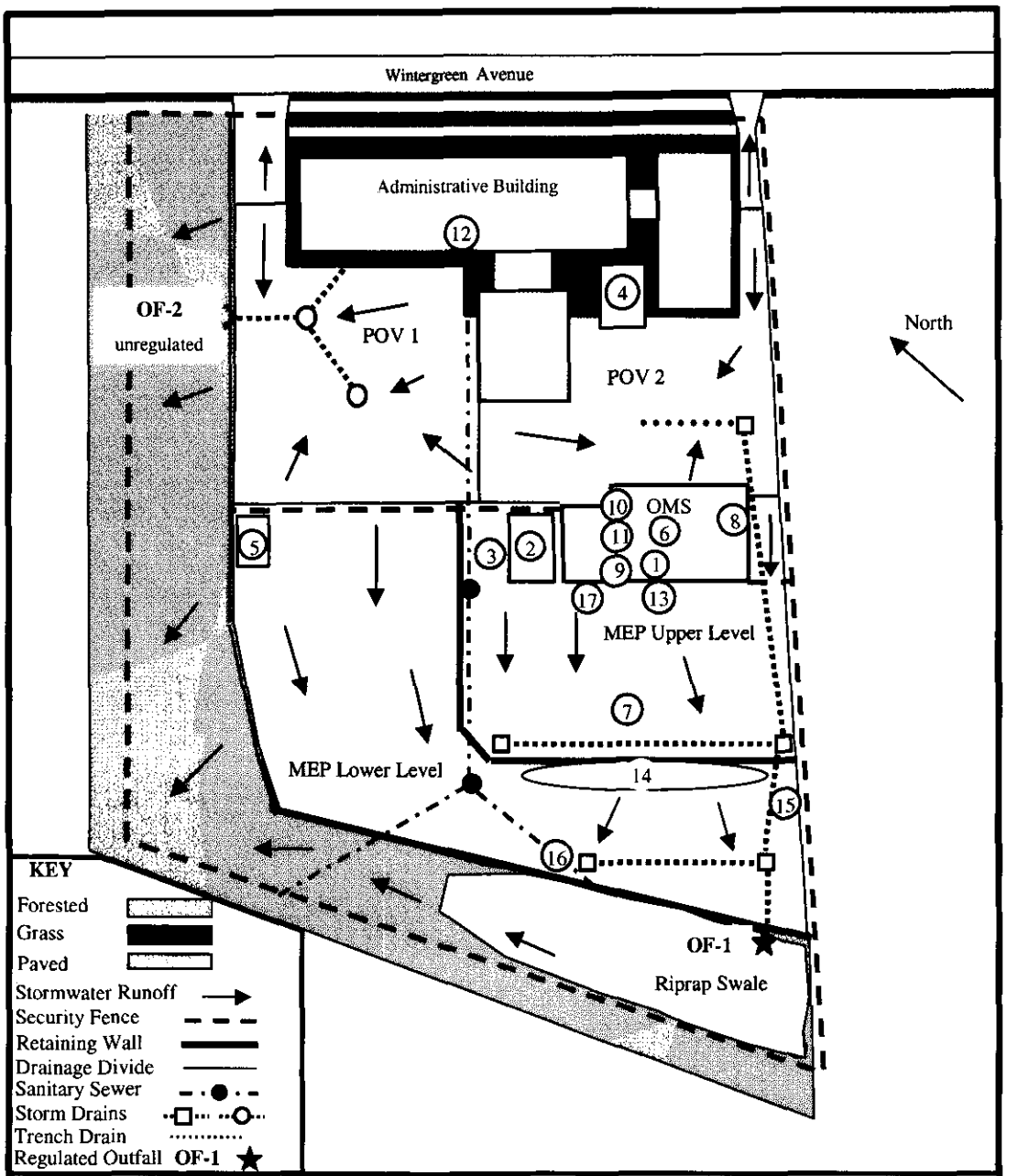
Site observation at the SSG George D. Libby USARC facility identified one stormwater outfall (**OF-1**) that could be subject to CTDEP stormwater regulations *(PLATES 41 & 42)*, and one stormwater outfall (**OF-2**) not subject to regulation (*PLATES 43 & 44*). Outfall **OF-1** discharges to a riprap lined trench in a low-lying area at the southeast corner of the site (figure 3.1, *PLATE 42*).

A newly installed drainage system, which captures stormwater runoff from the POV 2 and MEP parking areas, discharges to **OF-1**. The stormwater is collected in a new trench drain and catch basin in the POV 2 parking area (*PLATE 39*) and four new storm drain catch basins in the MEP (*PLATES 36, 37, & 38*). The **OF-1** outlet is a 24-inch corrugated plastic pipe (*PLATE 41*). Regulated activities within the drainage area of **OF-1** include storage of new and used potentially polluting materials (PPM's), loading/unloading of PPM's, and potential leaks from military vehicles parked at the MEP. Spills and leaks from military vehicles commonly result from an inadequate facility preventive maintenance program, including a lack of available drip pans and infrequent vehicle inspections (see section 3.9)

An existing drainage system in the former MEP 4 parking area now POV 1 parking consisting of two circular storm drains was incorporated into the new bituminous paving and discharges through outfall **OF-2** (figure 3.1, *PLATE 20*). The **OF-2** outlet is a 15-inch mitered metal pipe protruding from the steep wooded embankment on the western side of the property (*PLATE 44*). Stormwater flows down the embankment to the low-lying area at the base of the slope, infiltrating into the ground. The original SWP3 plan refers to plans that imply runoff from the roof of the administration building also discharges through outfall **OF-2**.

Excess runoff from both outfalls not retained in their respective low-lying areas to infiltrate into the ground would move towards the southwest corner of the property where it would continue offsite onto a stream terrace along Wintergreen Brook. Wintergreen Brook flows along the West-Southwestern side of the property into the West River discharging into New Haven Harbor and ultimately to Long Island Sound.

3.0 Assessment...*continued*



SITE MAP CODE GUIDE

1- MSDSs & other safety info
2- Wash Pad
3- Oil/Water Separator
4- Unused Heating Oil UST
5- Triple Door POL Shed
6- Spill Kit
7- Spill Kit
8- Flam. Cabinets (2)
9- Hazardous Waste Accumulation Area
10- Flam. Cabinets (5)
11- ZEP Parts Washer
12- Boiler Room
13- Grease Rack (inactive)
14- Connexes (multiple)
15-16- Scrap, discard piles
17- Soil erosion area

FIGURE 3.1 – USARC – CT007 Site Map

Not to scale 5/29/02

Drafted by Remo A. Mondazzi, Hydrologist

Reviewed by Emitt C. Witt, Supervisory Hydrologist

3.0 Assessment...*continued*

No floor drains were observed inside the OMS shop. However, a small sink in the southeastern corner of the building discharges to a gravel ditch directly outside the wall adjacent to it (*PLATE 40*), as noted in the original plan. Some soil erosion was noted due to the discharge.

3.3 STRUCTURES [GP-014.Section 5(b)(6)(B)(i)(1)]

Stormwater runoff at the SSG George D. Libby USARC flows into seven catchments. Two pre-existing circular storm drains in the former MEP 4 parking area, now POV 1 parking, direct flow through a subsurface conduit to outfall **OF-2** (figure 3.1, *PLATES 19 & 20*). A newly installed drainage system consisting of a trench drain and rectangular storm drain/catch basin in the POV 2 parking area, two rectangular storm drain/catch basins in the upper level of the MEP and two rectangular storm drain/catch basins in the lower level of the MEP direct stormwater through subsurface conduits to outfall **OF-1** (figure 3.1, *PLATES 36, 37, 38 & 39*).

Several of the storm drains leading to catch basins were partially obstructed with stormwater deposited debris or packing crates (*PLATES 37 & 38*). A recommended baseline BMP is to clear all storm drains of obstructions and periodically inspect and remove any debris accumulation deposited by stormwater runoff to maintain the catch basin inlets at maximum efficiency.

The concrete vehicle wash pad west of the OMS (**site 2**, *PLATE 28*) is connected to an oil/water separator (**site 3**, *PLATE 34*). The oil/water separator is connected to the sanitary sewer system. Maintenance and cleaning of the oil/water separator was performed during the construction period. The wash pad is contoured so discharge water is directed toward the central drain. The lubrication rack (**site 13,** *PLATE 27)* on the south side of the maintenance shop is no longer used.

3.4 POTENTIALLY POLLUTING MATERIALS [GP-014.Section 5(b)(6)(B)(i)]

Exposed 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. A hazardous-materials inventory at the facility was not conducted during the site inspection for this SWP3 update. An electronic copy of the PPM inventory, in spreadsheet format, was provided to the facility as part of the original SWP3 plan assessment. The inventory should be continuously updated and include the locations of the materials and approximate quantities on hand. It was noted that excessive quantities of waste hazardous materials were accumulated and stored in the POL shed. It is recommended that these materials be removed from the facility following standard procedures for disposal.

3.5 POTENTIAL SOURCES OF POLLUTANTS [GP-014.Section 5(b)(6)(B)(ii)]

An inventory of areas at the SSG Libby USARC facility, where industrial activities could potentially pollute stormwater runoff, was compiled from facility plans, staff interviews, and field reconnaissance. All pollutant sources at the facility are directly related to vehicle maintenance, loading and unloading of PPMs, exposed temporarily or permanently stored PPMs, and vehicle parking. The use of PPMs and generation of waste products are results of vehicle maintenance. No vehicle fueling is conducted onsite.

Vehicle and equipment maintenance is performed primarily inside the OMS shop within three of the four service bays (*PLATES 3 & 4*). Vehicle maintenance that involves the exchange of fluids is not conducted in the MEP. Vehicles are washed on the wash pad on the northwestern side of the OMS

3.0 Assessment...*continued*

shop (**site 2**, *PLATE 28*). Captured wash water is then directed through the oil/water separator (**site 3**, *PLATE 34*) to the sanitary-sewer system (figure 3.1).

Most new small quantity PPMs used for maintenance operations at the facility are stored in flammable materials storage cabinets inside the OMS shop (**sites 8 and 10**, *PLATES 17 & 18*). Outdoor storage of waste PPMs occurs in a double-floored Petroleum/Oil/Lubricant (POL) shed (**site 5**, *PLATES 31, 32, & 33*) Materials stored at these locations are fully protected from precipitation and stormwater runoff during storage. A hazardous materials accumulation area is located in the southwest corner of the OMS shop (**site 9**, *PLATE 8*). Half of the storage drums in the accumulation area were on spill containment pallets and half were placed directly on the concrete floor. A good BMP is to place all waste PPM storage containers on secondary containment pallets. A dedicated storage area was not observed for large quantity new PPMs in the OMS. Several large containers of new PPMs were placed on standard wooden pallets or wheeled carts (*PLATES 12 & 13*). A good BMP would be to designate an area for new PPMs in the shop and place the containers on secondary containment pallets, several of which were observed not being used (*PLATES 16 & 33*).

SSG Libby USARC facility is considered to be a conditionally exempt, small-quantity hazardous-waste generator by the CTDEP and has been issued the generation number (CVS024248900). Used PPMs are taken from the OMS shop and stored in bay 1 of the POL shed (**site 5**, *PLATES 32*). The storage containers were clearly marked with large labels listing the contents in the containers. The waste PPM's accumulate and are then removed by the Defense Reutilization and Marketing Office (DRMO), Groton, Connecticut. Oil and fuel filters are drained and stored in 55-gallon drums before being removed for crushing and disposal. USARC personnel participate in the Army Oil Analysis Program, which is operated through Fort Drum, New York. Waste oil is accumulated in 55-gallon drums in bay 1 of the POL shed. Other waste-oil products, such as automatic-transmission fluid (ATF), brake fluid, and antifreeze, are accumulated in separate containers and are disposed of as hazardous waste. All battery work is sent to the AMSA 69 (G) facility in Milford, Connecticut.

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 SSG George D. Libby USARC facility according to shop personnel. Minor spills or leaks are treated with dry sweep, which is then stored in a separate container in the OMS shop (*PLATES 9 & 10*).

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.

Outfall **OF-1** was observed for NSWDs on May 23, 2002, as part of the SSG Libby USARC facility site assessment conducted by the USGS. No dry-weather discharges were observed at **OF-1**. A NSWD certification is provided in the Appendix (table 6.0). The Facility Coordinator must sign the certification.

3.0 Assessment...*continued*

3.8 STORMWATER-MONITORING DATA [GP-014.Section 5(c)]

At the time of assessment there was no knowledge of existing stormwater-monitoring data. Currently there are no plans to collect stormwater-quality data at the SSG Libby 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.

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. 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 May 23, 2002 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.

OPERATIONAL MAINTENANCE and SUPPORT SHOP

Organizational maintenance is typically conducted within three work bays inside the OMS building (*PLATES 3 & 4*). Military equipment serviced includes almost all ground vehicles such as light utility vehicles; 2.5-ton and 5-ton cargo units; tractor and trailer units; fuel tankers; tractors; cranes; forklifts; as well as: generators; compressors; pumps; and mess equipment. The OMS shop provides limited organizational and mechanical support for the reservist units at the SSG Libby USARC facility. Direct support maintenance is sent to the AMSA 69 (G) facility in Milford, Connecticut.

Most PPMs used at the shop are typically either stored in bulk inside two of three bays of the POL shed (*PLATES 31 & 33*) or in smaller quantity in any of seven flammable materials cabinets inside the shop (*PLATES 17 & 18*). PPMs stored inside the POL shed or in the flammable cabinets have secondary containment and fully protected from precipitation and stormwater runoff and have no chance to become stormwater pollutants, except during loading and unloading. Several large containers of new PPMs were observed in the OMS shop on standard wooden pallets or wheeled cart. The units housed at this USARC facility were preparing for departure to their annual training (AT) destination. A good BMP would be to place the new PPM storage containers on secondary containment pallets, several of which were observed not being used (PLATES 16 & 33). A current hazardous-materials inventory should be maintained at all times. It is recommended that the chemical inventory be updated monthly with the quantity and location of PPMs in the facility.

Adequate neat and orderly workspace with easily accessible spill-response supplies was not noted inside the shop (*PLATES 5, 9, 10, 11, 14, & 15*). One spill kit cart with wheels was centrally located in the work area (**site 6**, *PLATE 14*), but access was obstructed. A barrel filled with clean dry sweep on a wheeled platform was noted (*PLATE 9*), but not easily accessible. Material Safety Data Sheets (MSDS), Right To Know information, Installation Spill Contingency Plan (ISCP), and hazardous material placarding information were present along the front of the storage cages (**site 1**; *PLATES 6 & 7*). 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), Spill Standard Operating Procedures, Hazardous Material/Waste Handling Standard Operating Procedures, Maintenance Standard Operating Procedures, Washrack Operators Manual, Hazardous Waste Tracking System.

3.0 Assessment...*continued*

The OMS shop posses a low threat to the surface waters of the State of Connecticut. OMS personnel use, store, and transport PPMs inside the shop. Adequate easily accessible spill-response equipment is not located within the shop. No floor drains were observed inside the OMS building. The most significant threat to stormwater from this area would be an undetected leak or an unconfined spill that would move into POV Lot 2 and enter the trench/storm drain that discharges to **OF-1**.

MILITARY EQUIPMENT PARK

Three MEP parking areas were consolidated into one newly paved and fence-enclosed MEP with upper and lower level parking areas during the recently completed facility site and drainage improvement construction (figure 3.1, *PLATES 23 - 31*). One former MEP location is now additional POV parking labeled POV 1 on figure 3.1. POV 2 is between the administrative building and the OMS shop. The MEP lot is used for storing military vehicles and equipment. Approximately 50 pieces of equipment are stored here according to the OMS shop supervisory sergeant. A vehicle lubrication rack is located behind the OMS in the MEP compound, but is no longer used.

An area of concern is the accumulation of discarded piles of packing crates, pallets, and other assorted materials in several locations in the MEP (**sites 15-17**, *PLATES 29, 30, & 38*). These piles are unprotected from contact with precipitation and stormwater. PPM residues that may be on the scrap materials can be removed and washed into storm drains which discharge to **OF-1**. An open 55-gallon drum was observed at **site 17** containing standing water with petroleum sheen on the surface. A recommended BMP is to improve good housekeeping in this area and remove or cover the piles of discarded materials promptly. A spill response overpack barrel was observed in the MEP upper level (**site 7**, *PLATE 25*) but its presence was not easily discernible upon first entering the compound. A second spill response barrel was located near one of the scrap piles (**site 15**, *PLATE 29*), but the cover was not secure and the usefulness of the contents was compromised by precipitation. Numerous conexes are located in the MEP lower level (**site 14**, *PLATE 26*). These conexes contain various unit supplies, such as tents, poles, and heaters.

No POL leaks were observed during the site inspection under any military vehicles stored in the MEP. Drip pans were not observed anywhere at this facility. Ten percent of the vehicles onsite should have drip pans. Vehicles should receive a walk-around inspection at least once weekly. USARC personnel should become familiar with the sections of this document describing visual inspection programs.

The MEP poses a moderate risk to the surface waters of the State of Connecticut, due to the potential for accidental spills during loading and unloading activities conducted near the POL shed. Other concerns include potential leaks from vehicles and equipment, transfer of PPM residues from unprotected scrap material piles and open drums to storm drains, and the lack of quickly accessible spill response supplies in the event of an accidental spill. All OMS personnel should be trained in proper house keeping, spill control/response, and material-handling procedures.

PETROLEUM, OIL, AND LUBRICANTS SHED

New PPMs storage and hazardous waste accumulation areas are in one triple-bay POL shed (**site 5**, *PLATES 31-33*). The waste consists of used oil and fuel filters and other hazardous materials related to vehicle maintenance. POL sheds protect 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 shed doors has a relatively steep gradient and drains directly into the lower level of the MEP, which contains two storm drains that discharge to **OF-1**. Observed BMPs include secondary containment in the POL storage and accumulation area. A recommended

3.0 Assessment...*continued*

good BMP would be to locate spill containment supplies near the POL shed to decrease response time in case of an accidental spill during loading/unloading operations. Facility staff should ensure that regular visual inspections are also conducted in these chemical/waste storage areas. Several 55-gallon drums filled with hazardous waste have accumulated and are stored in the POL shed (*PLATE 32*). It is recommended that these materials be promptly removed from the facility following standard procedures for disposal.

The POL shed area poses a moderate risk to surface waters of the State of Connecticut. The only threat to surface waters is a potential spill during loading/unloading operations at the shed but the response time to contain and clean up a spill is increased by the lack of adequate spill response supplies near the shed.

MILITARY VEHICLE WASH PAD

An outdoor concrete vehicle wash pad is located along the west side of the OMS building within the MEP compound (**site 2**, *PLATE 28*). Wash water and stormwater entering the drain near the center of the wash pad flows into an oil/water separator, which directs flow into the sanitary sewer system The oil/water separator was cleaned recently during the site and drainage improvement construction activities and is fully operational at this time.

The wash pad area poses a low risk to surface waters of the State of Connecticut because the discharge is not a point-source discharge to surface waters.

LUBRICATION RACK

A lubrication rack is located behind the OMS building (**site 13**, *PLATE 27*). It is no longer used and therefore poses no risk to surface waters of the State of Connecticut.

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]
8, 9, 10,	OMS	PPM usage / storage	New/Waste POL	OF-1/ Wintergreen Brook	A, E	Low / d, e, h
5	MEP	PPM Storage / Loading	New/Waste POL	OF-1/ Wintergreen Brook	A, E	Moderate / d, e, h
--	MEP	Vehicle /equipment parking	POL leaks	OF-1/ Wintergreen Brook	E	Moderate / a, e, f
2	Military Vehicle Wash Pad	Vehicle/equipment washing	Used POL	Sanitary Sewer	F	No risk / c, g
14	Lubrication Rack	PPM usage	New/Used POL	OF-1/ Wintergreen Brook	F	Low / i

[1]**Exposure type:**

A No exposure to precipitation or stormwater runoff during storage
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 material transfer
F Direct exposure of washrack drainage devices to precipitation and/or 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 storm 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
j Inactive 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 BMPs program at the SSG George D. Libby 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 SSG George D. Libby 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 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. For information on such areas, refer to section 3.9.

An area of minor soil erosion was observed behind the OMS where a small wash sink outlet pipe discharges to the ground as stated in the original SWP3 plan (**site 18**, *PLATE 40*). It is recommended that the discharge area be paved or reinforced with riprap to mitigate the soil erosion potential.

4.1.6 Environmental Training [GP-014.Section 5(b)(6)(C)(vii)]

Headquarters, U.S. Army Reserve Command 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 headquarters command, 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 1998. 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	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	X		
Maintain updated MSDSs and PPMs inventory	GH	X	X		
Post good-housekeeping visual aids at the motor pool	GH	X	X		
Formally train military and civilian maintenance personnel in good-housekeeping practices	GH/TG	X	X		
Provide technical inspection for all incoming and parked vehicles and equipment with particular emphasis on fluid leaks	PM/VI	X	X		
Ensure that an updated spill plan, emergency coordinator, and spill equipment are available at the facility during working hours	SPR	X	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	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	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		
Have accumulated waste-oil / filters removed in a timely manner	BBMP		X		
Requisition drip pans for use at MEP (if review of the number of available drip pans makes this necessary)	ABMP		X		
Requisition an overpack drum of spill equipment for use at the MEP lower level	ABMP		X		
Keep storm drains clear and unobstructed	VI/PM		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 storage area . 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 Standard Operating Procedure (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 23 May 2002	
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
05/23/02	OF-1	Visual	No NSWD	NA	USGS, CT	NA

I certify that periodic NSWD inspections will be performed at SSG George D. Libby 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.

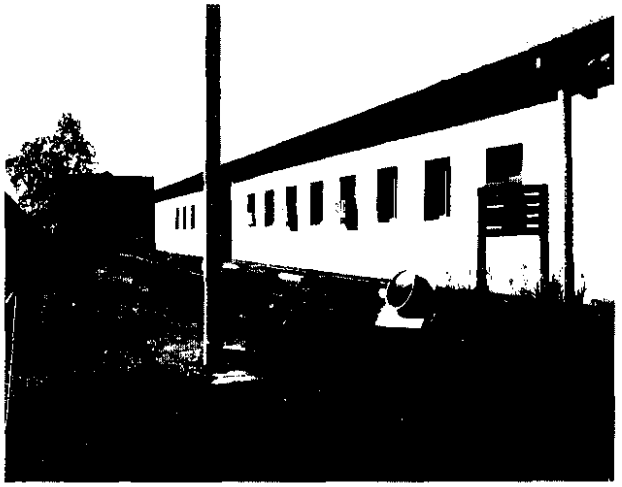


PLATE 1: SSG George D. Libby USARC, New Haven, CT

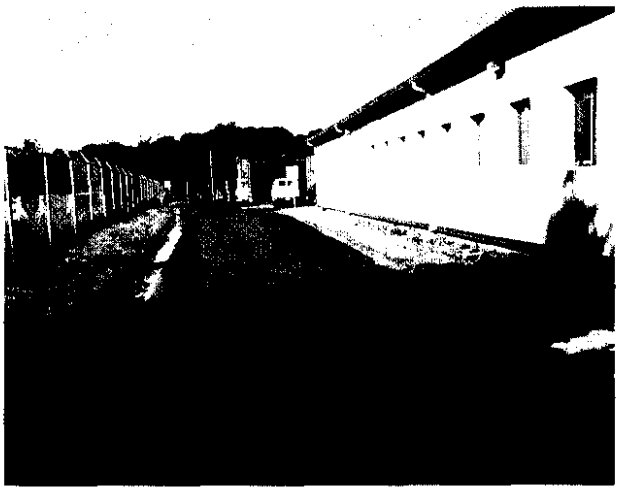


PLATE 2: East side driveway

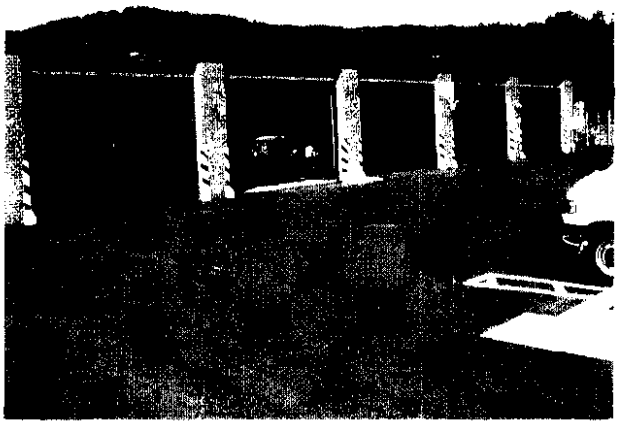


PLATE 3: View of front of OMS shop

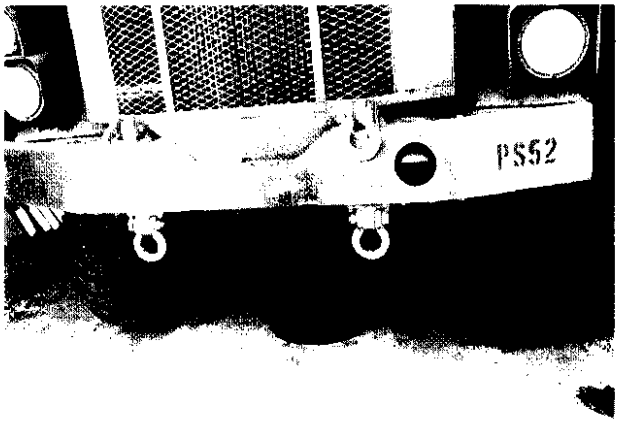


PLATE 4: Service bay in OMS shop

PLATE 5: Inside OMS, secure storage in rear

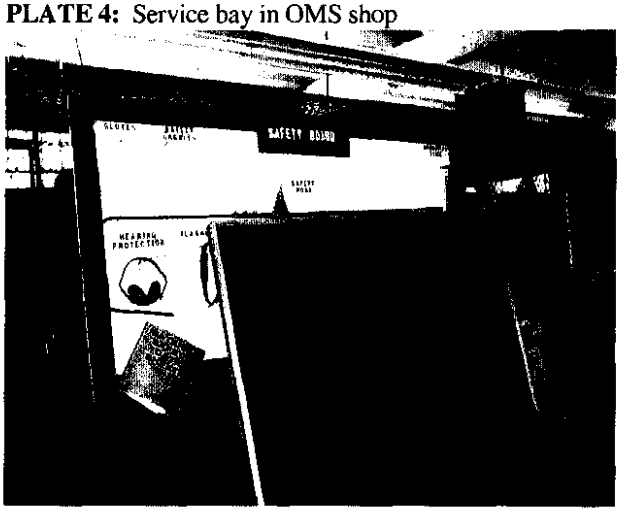


PLATE 6: MSDS binder, safety board inside OMS (site 1)

6.0 Appendix...*continued*

PLATE 7: Safety information rack (**site 1**)

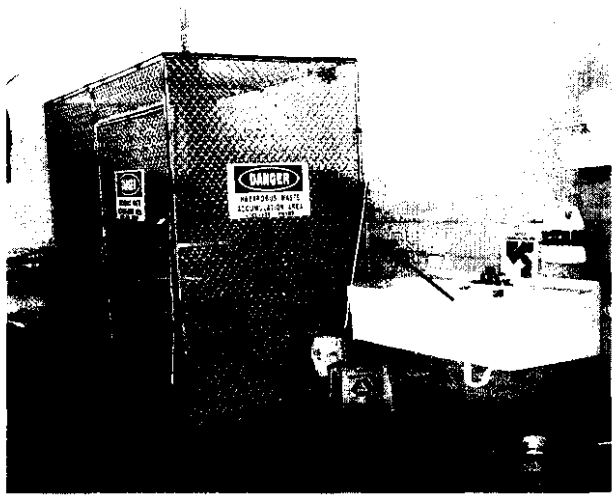


PLATE 8: Hazardous waste accumulation area (**site 9**)

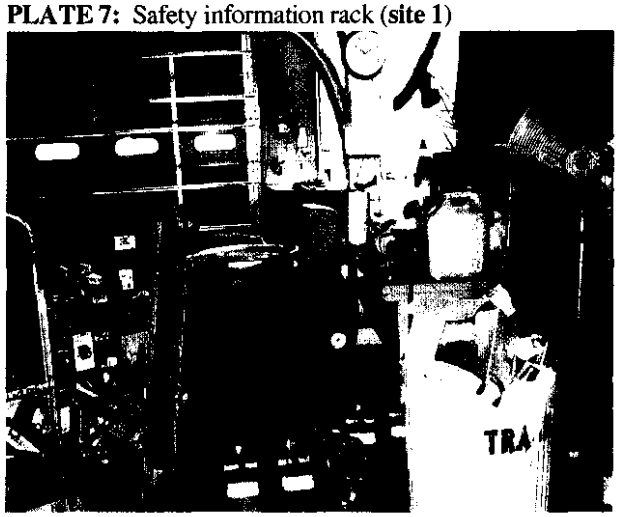


PLATE 9: Workbench, clean dry sweep container

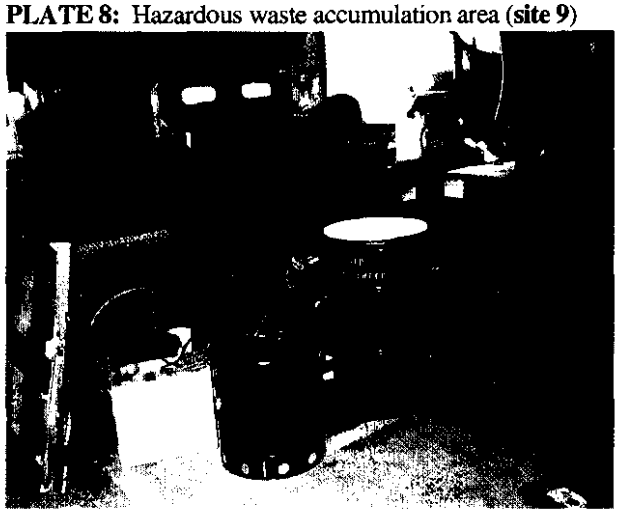


PLATE 10: Used dry sweep container

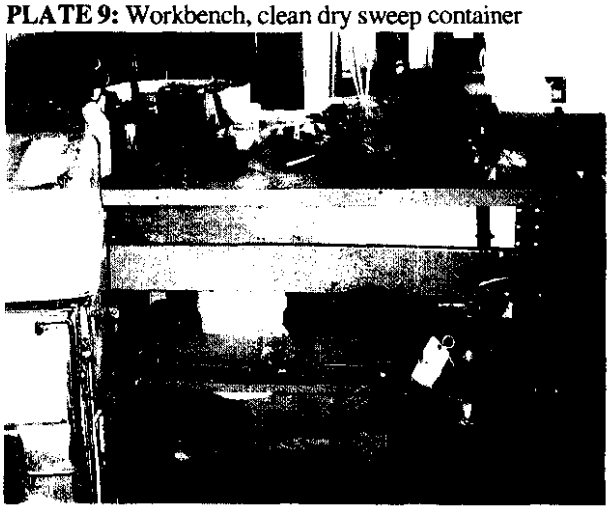


PLATE 11: Additional workbench, oil fill cans on bench

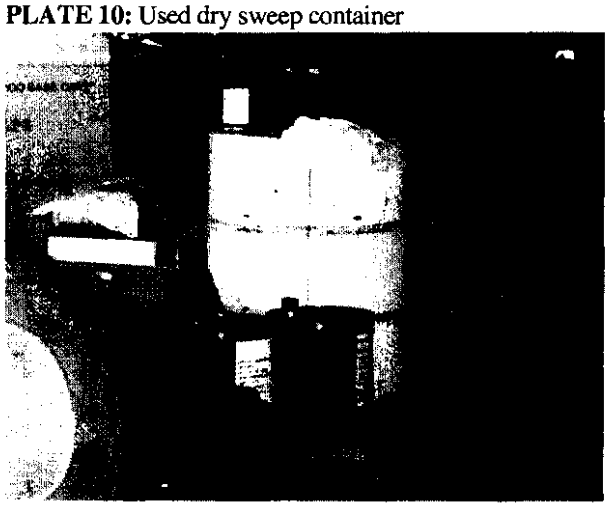


PLATE 12: New motor oil and 5-gal ATF cans in shop

6.0 Appendix...*continued*

PLATE 13: 55-gallon can marked diesel fuel in OMS

PLATE 14: Wheeled spill kit in OMS **(site 6)**

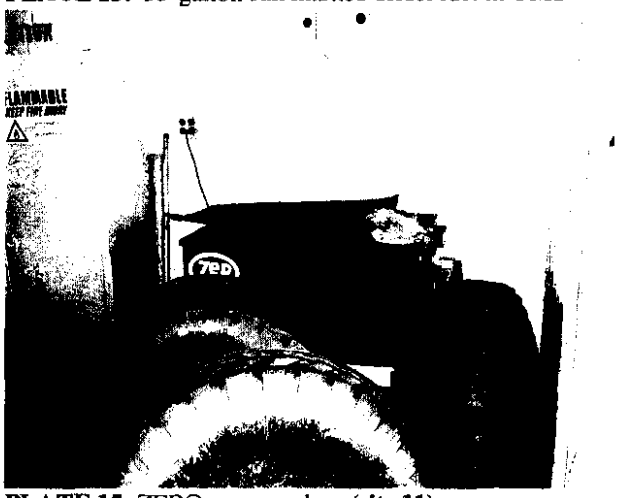


PLATE 15: ZEP® parts washer **(site 11)**

PLATE 16: Small spill containment pallet in OMS

PLATE 17: Six flammables storage cabinets **(site 10)**

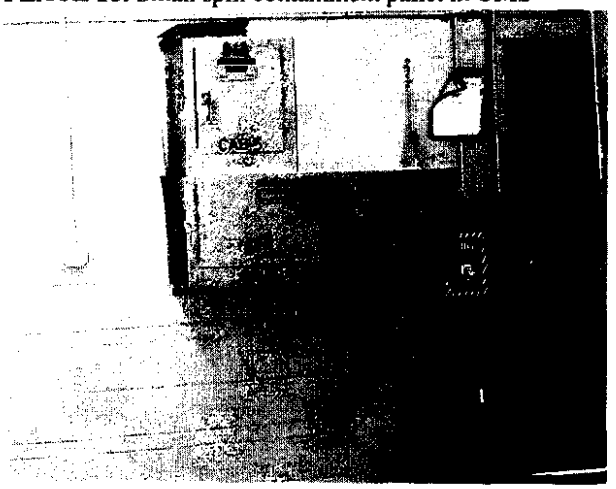


PLATE 18: Wall-mounted flammables cabinets **(site 8)**

6.0 Appendix...*continued*

PLATE 19: POV 1 parking area

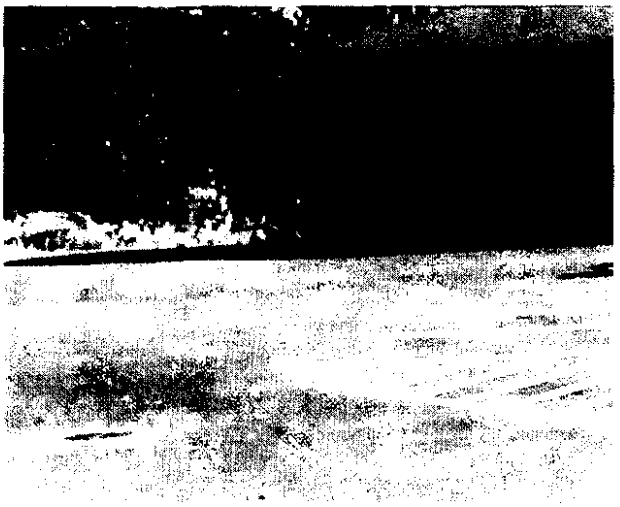


PLATE 20: Pre-existing circular storm drains in POV 1

PLATE 21: Paved area between POV 1 and 2

PLATE 22: POV 2 parking area

PLATE 23: Entrance to MEP

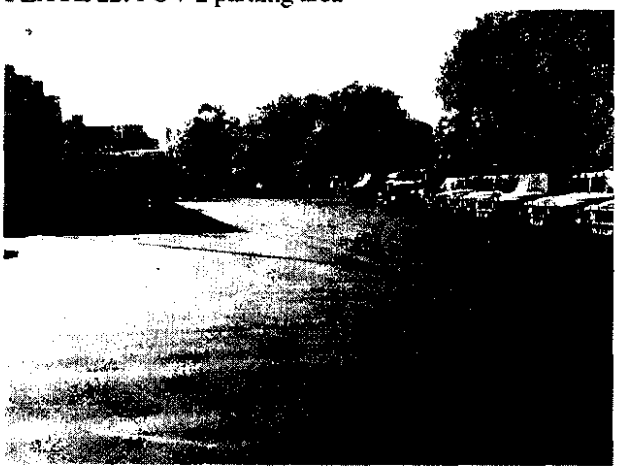


PLATE 24: Rear portion of MEP lower level

6.0 Appendix...*continued*

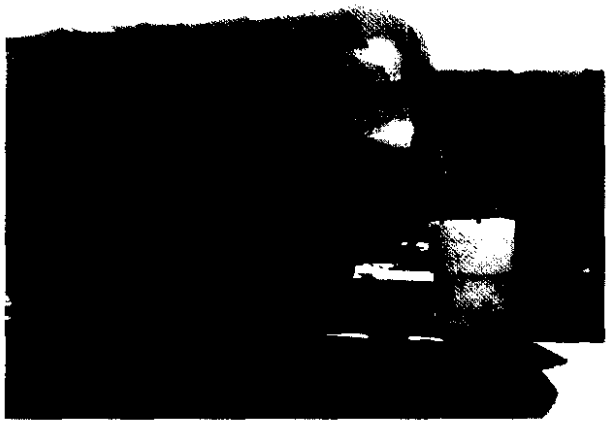


PLATE 25: Spill kit in MEP (**site 7**)

PLATE 26: Conex storage containers in MEP (**site 14**)

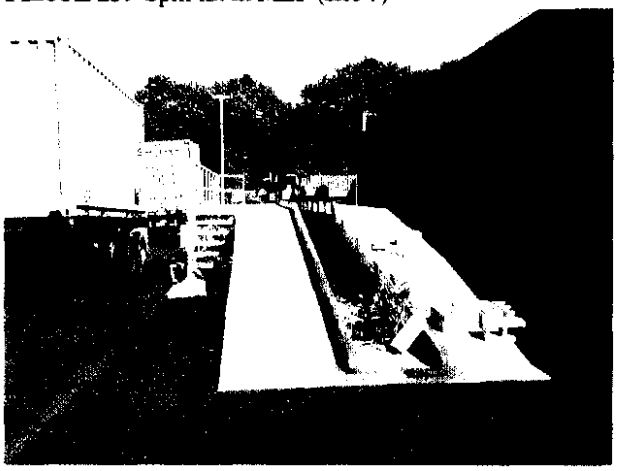


PLATE 27: Unused grease rack behind OMS (**site 13**)

PLATE 28: Vehicle wash pad west side of OMS (**site 2**)

PLATE 29: Packing crates, open spill kit in MEP

PLATE 30: Discarded pallets, packing crates, in MEP

6.0 Appendix...*continued*

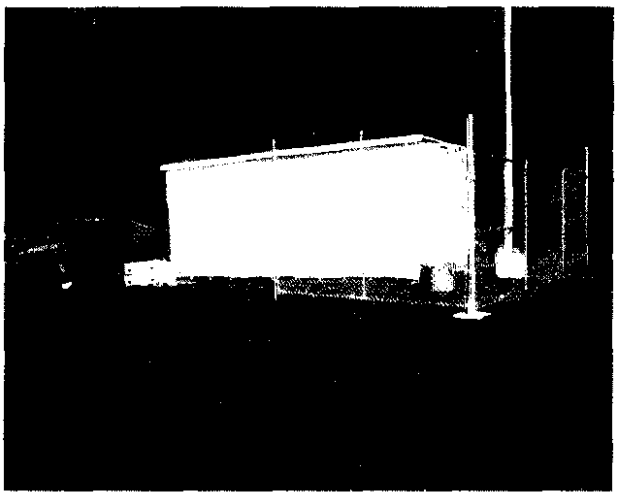


PLATE 31: POL shed in MEP compound (**site 5**)

PLATE 32: POL shed bay 1, hazardous waste storage

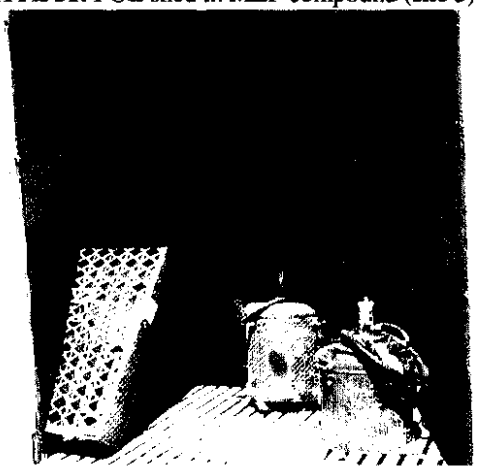


PLATE 33: POL shed bay 3

PLATE 34: Oil-water separator access cover (**site 3**)

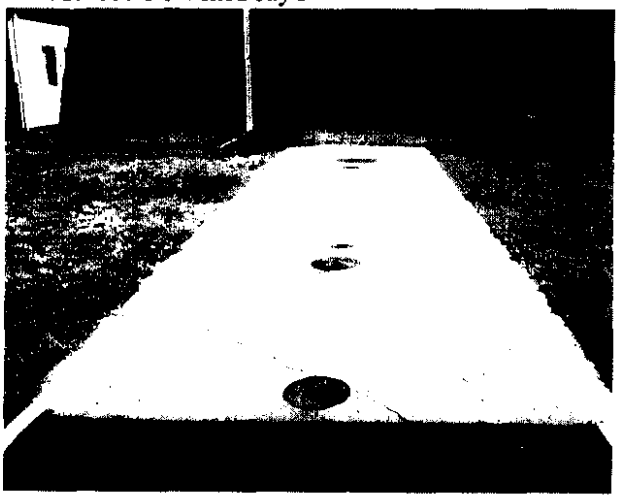


PLATE 35: Unused fuel oil UST (**site 4**)

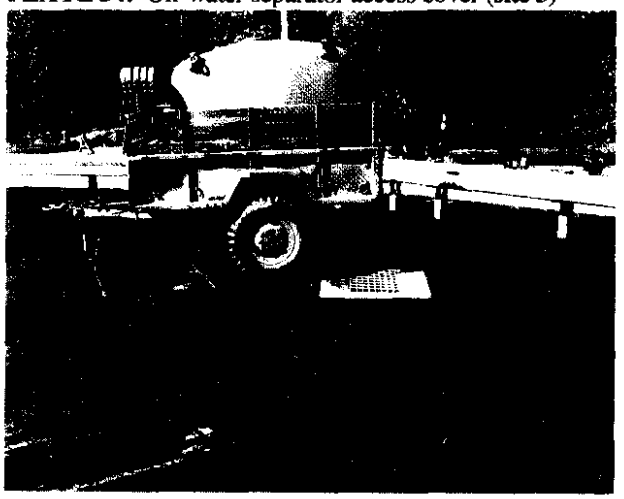


PLATE 36: New storm drain/catch basin in upper MEP

6.0 Appendix...*continued*

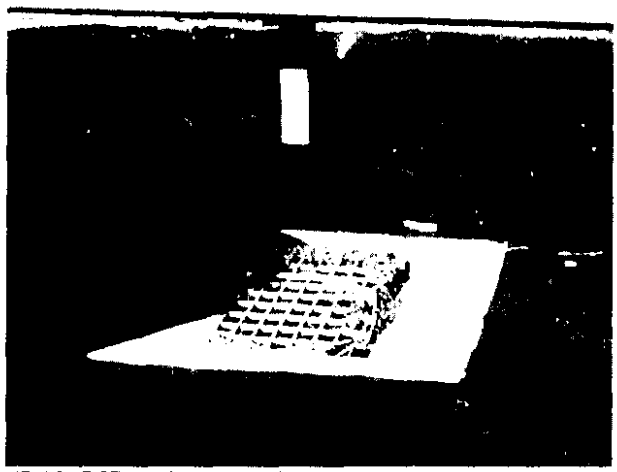


PLATE 37: Debris around storm drain in lower MEP

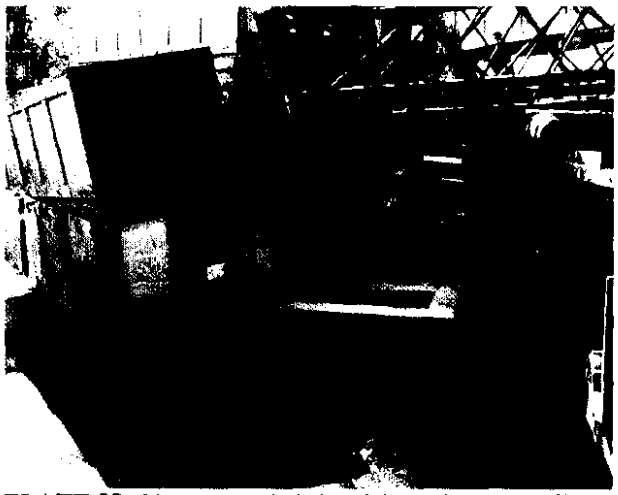


PLATE 38: New storm drain/catch basin in lower MEP

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PLATE 40: OMS sink drain outlet, soil erosion area

PLATE 41: Regulated outfall **OF-1**

PLATE 42: OF-1 rip-rapped discharge pit

6.0 Appendix...*continued*

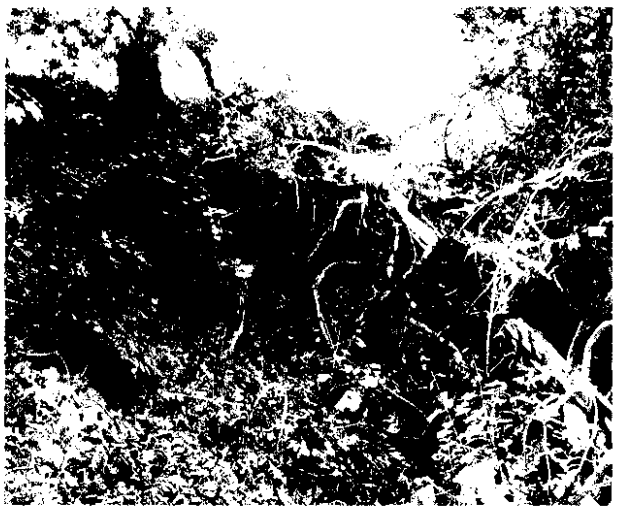

PLATE 43: Unregulated outfall **OF-2**

PLATE 44: Close-up of **OF-2** mitered outlet pipe

IT Corporation
I1499 Chester Road
Cincinnati, OH 4.52464032
Tel. 513.782.4700
Far. 513.782.4807
A Member of The IT Group

October 23,2003

Lloyd Crothers
Regional Facility Manager
SSGT George D. Libbey U.S. **Army** Reserve Center
200 Wintergreen Avenue
New Haven, CT *06515*

RE: Range Cleaning Clearance Certification – Facility ID CT007, 94th RSC
USARC Nationwide Indoor Rifle Range Cleanup Project
Contract No. DACA 27-99-D-0021, Delivery Order No. 14

Dear Mr. Crothers:

With this letter, IT Corporation certifies that the recent range cleaning activities have successfully attained the project clearance objectives and **the** range is approved for your reoccupancy. Range clearance procedures consisted of the following:

- **A** surface-by-surface visual examination to verify that:
  - **The** lead hazard control work was completed **as** required
  - No known or suspected lead-dust surfaces are still present in the range at levels that exceed the project clearance level of 200 µg/sf.

- Clearance sampling consisting of collecting wipe samples from floor, wall, and ceiling surfaces and analyzing the samples for lead.

- Final floor sealing to achieve the 94'' RSC requested level of 40 µg/sf of lead on floor, wall, and ceiling surfaces.

A formal project report for the range cleanup will be submitted upon completion of all waste disposal activities and receipt of disposal certificates.

Please note that although the range has been cleaned to below the project clearance levels, small amounts of lead dust may be present in the range. Any remodeling activities that may cause a release of dust on wall and floor surfaces should be undertaken in consideration of the Occupational Safety and Health Administration (OSHA) Construction Industry Standard for Lead (29 CFR 1926.62). This **OSHA** standard should be reviewed before any remodeling activities are conducted. The **OSHA** standard requires certain controls to reduce or maintain worker exposures **less** than the Permissible Exposure Limit (PEL) of 50 µg of lead per cubic meter (m^3). The employer must protect the worker from lead.

We appreciated your cooperation and support during the range cleanup. Should you have any questions, please contact the undersigned at (513) 782-4700.

Sincerely,

IT CORPORATION

William H. Scoville, P.E.
Project Manager

cc: David Dierken, U.S. Army Corps of Engineers, Louisville District
Gary Puryear, 94'' RSC

INTERNATIONAL TECHNOLOGY CORPORATION

PROJECT REPORT

RANGE CLEANUP – CT007, 94th RSC
SSGT GEORGE D. LIBBEY
U.S. ARMY RESERVE CENTER
NEW HAVEN, CONNECTICUT

Contract No. DACA 27-99-D-0021
Delivery Order No. 0019

Submitted to:

U.S. Army Corps of Engineers
Louisville District
Environmental Engineering Branch

Prepared by:

IT Corporation
312 Directors Drive
Knoxville, Tennessee 37923-4799

February 2004

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Appendix J Lead Monitoring Analytical Results
Appendix K Clearance Certification Letter

1.0 Introduction

This document presents the report for cleanup activities at the 94th RSC facility located at 200 Wintergreen Avenue, New Haven, Connecticut 06515 (Figure 1-1). The cleanup activities were based on the Scope of Work (SOW) provided by the U.S. Army Corps of Engineers (USACE) Louisville District (CELRL) and a site inspection conducted on July 25, 2002.

1.1 Property/Project Identifiers

- Facility ID Number: CT007
- State: Connecticut
- Facility Name: SSGT George D. Libbey U.S. Army Reserve Center
- City: New Haven.

1.2 Site Description

1.2.1 Inspection Information

Mr. Kevin Hayes of Diversified Technology Consultants (DTC) and Mr. Jerry Hunt of Eagle Environmental, Inc., inspected the range on July 25, 2002. Figure 1-2 presents the facility layout. The four-position range with a manual target retrieval system was located in the basement of the facility. Sand was observed in the bullet trap area; however, it was not known if lead shot was present in the sand. The range appeared dirty, with a heavy layer of fine dust.

The concrete block walls were covered with a fiberboard sound deadening material that was affixed to the wall with furring strips. A false pegboard wall was present behind the firing line area. The concrete ceiling was completely covered with fiberboard that had been pressed into the concrete while it was still wet. The floor was constructed of unsealed concrete that was cracked and stained. A floor drain was not present in the range.

An industrial hygiene study was conducted at the range in 1995 to determine exposure risk to residual lead contamination. Wipe samples collected during this investigation were found to contain elevated lead levels. A facility wide asbestos inspection was conducted in 1994; no asbestos was detected in the firing range. An asbestos inspection of the range was also conducted on July 25, 2002 (see Section 3.1).

1.2.2 Pre-Cleanup Characteristics

1.2.2.1 Number of Firing Points

The range had four firing points.

1.2.2.2 Bullet Trap Characteristics

The bullet trap was a steel deflector system with sand.

1.2.2.3 Range Characteristics

The range, which was located in the basement, was constructed of the following:

- Floor – unsealed concrete
- Walls – concrete block, covered with a fiberboard sound deadening material that was affixed to the wall with furring strips; a false pegboard wall was present behind the firing line area.
- Ceiling – concrete, covered with fiberboard that had been pressed into the concrete while it was still wet.

Other features included:

- Stored items, including office equipment, furniture, supplies, paper targets, sand bags, and other miscellaneous items
- Four-position, hardened steel bullet trap
- Hand-crank retrieval system
- One radiant heater mounted near the ceiling behind the firing line
- Fluorescent and incandescent lights spaced across the ceiling.

1.2.2.4 Suspect Asbestos Containing Materials (ACM) Inventory

Prior to initiating cleanup, an ACM inspection was conducted on suspect materials. The results of that inspection are detailed in Section 3.1.

1.2.2.5 Air Handling Systems Description

The air handling system at the site consisted of the following:

- Ceiling-mounted ductwork with intake air vents located above the firing line
- Wall-mounted exhaust fan located behind the bullet trap.

1.2.2.6 Access Points

Access to the firing range is via an entry door near the firing line and a smaller door behind the bullet trap.

1.3 Scope of Work

The SOW consisted of the following:

- Cleaning/removing stored items
- Removing sound deadening material
- Removing the bullet trap and associated sand
- Cleaning the range
- Cleaning and removing the air handling system
- Collecting clearance samples
- Scabbling and sealing the floor, if necessary, based on clearance data.

The U.S. Army Reserve Command (USARC) recognized safety and health hazards from lead-dust in indoor rifle ranges; however, regulations supporting cleanup remedies dealt primarily with non-industrial standards. After reviewing information relative to cleaning methods and clearance sampling, the value of 200 micrograms per square foot (µg/sf) was derived as a value that would release the indoor ranges as a room that could be reoccupied as a non-lead work area. This value has also been selected by other federal agencies as acceptable.

2.0 Project Team

The project team involved with the cleanup activities included the following organizations and their representatives:

- Project Initiator - USARC
  Ken Coulter - Facility Support Branch, U.S. Army Reserve Engineer

- Client – 94th RSC

- Construction Manager – USACE, Louisville District
  Contracting Officer's Representative – David Dierken

- Contractor – IT Corporation
  Project Manager – Bill Scoville
  Site Supervisor – Chuck Heffelfinger
  Site Safety Officer/Construction Quality Control Engineer – Jim Greer

- Subcontractors
  Asbestos Sampling and Oversight – Eagle Environmental, Inc., Bristol, Connecticut
  Asbestos Abatement – Asbestos-O-Tech, Inc., North Haven, Connecticut
  Range Clearance Inspection and Sampling – Eagle Environmental, Inc., Bristol, Connecticut
  Hazardous Sand Disposal Facility – Clean Harbors, Bristol, Connecticut
  Hazardous Decontamination Water Disposal Facility – Spring Grove Resource Recovery, Cincinnati, Ohio
  Asbestos Disposal Facility – Waste Management of New Hampshire, Rochester, New Hampshire
  Recycled Metal Facility – KC Metals, New Haven, Connecticut
  Non-hazardous Debris Disposal Facility – Waste Management, New Haven Transfer Station, New Haven, Connecticut and Cherry Hill Landfill, North Branford, Connecticut
  Lead Shot Recycling Facility – KC Metals, New Haven, Connecticut.

3.0 Project Activities

This section details the project activities performed at the 94th RSC facility located at 200 Wintergreen Avenue, New Haven, Connecticut. The cleanup activities consisted of the following:

- Asbestos Inspection and Abatement (Section 3.1)
- Range Removal Activities (Section 3.2)
- Range Cleaning Activities (Section 3.3)
- Range Clearance Inspection and Sampling (Section 3.4)
- Range Floor Sealing and Post-floor Sealing Wipe Samples (Section 3.5)
- Waste Management, Transportation, and Disposal (Section 3.6)
- Site Monitoring (Section 3.7).

The following sections discuss the operational details associated with the implementation of each of these activities.

Range cleanup activities commenced on August 20, 2003, and continued until October 10, 2003. Photographs of cleanup activities are included in Appendix A. Major schedule milestones include:

- Commenced field work on August 20, 2003.
- Completed range cleanup activities on September 11, 2003, and demobilized pending clearance sampling and receipt of clearance sampling results.
- Conducted clearance sampling on September 29, 2003.
- Sealed the range floor on October 10, 2003, and collected post-floor sealing wipe samples.

In summary, the following work was performed:

- Double-washed and HEPA-vacuumed the range
- Achieved cleanup of range concrete floor surface to 200 µg/sf
- Removed and disposed of one vacuum box (29,600 pounds) of lead-contaminated sand

- Removed and disposed of three drums (165 gallons) of lead-contaminated decontamination water
- Removed and disposed of 29 bags (approximately 2 cubic yards [cy]) of ACM fiberboard adhesive
- Removed and recycled one roll-off box (5,280 pounds) of scrap steel
- Removed and disposed of three roll-off boxes (8.68 tons) of non-hazardous debris
- Removed and recycled one pail (weighed with scrap metal) of lead shot.

3.1 Asbestos Inspection and Abatement

On July 25, 2002, six samples of possible ACM were collected by Mr. Jeff Hunt of Eagle Environmental, Inc., a licensed asbestos inspector, and analyzed by a NVLAP-accredited laboratory. As shown by the analytical results in Table 3-1, asbestos was determined to be present in the adhesive found on the fiberboard sound deadening material. A copy of the analytical results is provided in Appendix B.

Asbestos-O-Tech, a state licensed asbestos abatement company, removed the ACM from January 29 through January 31, 2003. Waste Management transported the ACM on May 28, 2002. All abated ACM were double-bagged for landfilling at Waste Management of New Hampshire in Rochester, New Hampshire. A copy of the asbestos abatement project monitoring report is provided in Appendix C.

3.2 Range Removal Activities

The following removal activities were completed from August 20 through September 8, 2003:

- Wiped and cleaned stored items and moved them to a location identified by facility personnel.
- Removed 29,600 pounds of sand from the bullet trap.
- Removed and cut-up approximately 5,280 pounds of steel from the bullet trap, ceiling deflectors, air-handling system, and exhaust fan and placed materials in scrap steel roll-off boxes for recycling. All scrap steel was decontaminated using a lead-clean solution.

- Removed the false wall, sound deadening material on ceiling and walls, and other range accessories (e.g., firing line). An air chisel was required to remove some of the sound deadening material.

- Removed, cleaned, and stored lights for the facility's recycling program.

3.3 Range Cleaning Activities

From September 8 through September 11, 2003, the firing range was cleaned. To remove as much dust and remaining debris as possible, the firing range was vacuumed using a HEPA vacuum. All surfaces were vacuumed, starting at the end farthest from the main entrance (the bullet trap area) and moving towards the main exit, beginning with the top of the room and working down. All vacuumed materials were containerized and later recycled with the scrap metal.

The walls and ceiling of the range were pressure washed. Primer and lead barrier paint were then applied to the walls and ceiling.

Floor cleaning activities consisted of the application of the following cleaning solutions:

- ZEP All Purpose Cleaner & Degreaser, manufactured by ENFORCER Products, Inc.
- HMCS-101, manufactured by Chemical Solutions, International.

These solutions were applied in accordance with the manufacturers' recommendations; floor scrubbers were used to increase the effectiveness of the solutions. After the excess solution was removed with wet-dry vacuums, the floor was rinsed with hot water until the water being vacuumed was visibly clear of dirt and suds. All decontamination water was containerized in 55-gallon drums. Copies of the Material Safety Data Sheets for the cleaning solutions are provided in Appendix D.

3.4 Range Clearance Inspection and Sampling

Upon completion of cleaning activities and prior to clearance sampling, a visual inspection was conducted of the areas potentially affected by the lead hazard control project. The inspection was conducted on September 29, 2003, by Caleb Cowles, Certified Lead Inspector (License No. 002106) of Eagle Environmental, Inc., Bristol, Connecticut. The purpose of the inspection was to determine whether the work was completed as required on all interior surfaces treated, as

specified in the original project scope and as indicated in the project report, and whether visible settled dust or debris was present.

The visual examination included a surface-by-surface examination to determine if known or suspected lead-dust surfaces were still present in the range. Lead hazard removal verification was documented on a Visual Clearance Form (Appendix E). All interim controls were verified visually to confirm stabilization of all lead dust surfaces, including any friction or impact surfaces treated during the project.

The visual examination verified the absence of visual dust in all rooms and on all surfaces treated. The absence of all waste and debris was also verified.

When acceptable visual examination results were received, clearance dust sampling commenced. Clearance dust sampling consisted of collecting single-surface dust wipe samples and analyzing them for lead content to determine whether lead concentrations exceeded clearance criteria (the clearance standard for this project is 200 μg/sf).

A total of 22 dust wipe samples were collected from the following locations:

- Nineteen dust wipe samples from:
  - Firing line floor (001DT)
  - Mid-range floor (002DT)
  - Bullet trap - firing line side floor (003DT)
  - Bullet trap - wall side floor (004DT)
  - Side wall - left, 2' (005DT)
  - Side wall - left, 4' (006DT)
  - Side wall - left, 6' (007DT)
  - Side wall - right, 2' (008DT)
  - Side wall - right, 4' (009DT)
  - Side wall - right, 6' (010DT)
  - Front wall - behind bullet trap, L (011DT)
  - Front wall - behind bullet trap, C (012DT)
  - Front wall - behind bullet trap, R (013DT)
  - Back wall - behind firing line, L (014DT)
  - Back wall - behind firing line, C (015DT)
  - Back wall - behind firing line, R (016DT)
  - Floor outside of range (017DT)
  - Ceiling - mid-range (021DT)
  - Ceiling - bullet trap, firing line side (022DT)

- One field blank sample (018DT)
- Two spike samples (019DT and 020DT).

Figure 3-1 shows the locations where clearance samples were collected. The sampling procedures are discussed in Section 4.1; analytical results are presented on Table 4-1. The clearance inspection and dust wipe sample collection forms and the analytical report are included in Appendix E.

3.5 Range Floor Sealing and Post-floor Sealing Wipe Samples

After completion of the range clearance sampling, the range floor was sealed with epoxy paint. After letting the floor sealant dry, the floor was re-sampled to determine if the location-specific clearance standard of 40 µg/sf was attained. Four additional wipe samples were collected by Jim Greer of IT Corporation, on October 10, 2003, from the following locations:

- Firing line floor (001DT)
- Mid-range floor (002DT)
- Bullet trap - firing line side floor (003DT)
- Bullet trap – floor, mid-point (004DT)

Figure 3-1 shows the locations where the clearance samples were collected. Sampling procedures are discussed in Section 4.1; analytical results are presented on Table 4-1. The dust wipe sample collection form and the analytical report are included in Appendix F.

3.6 Waste Management, Transportation, and Disposal

One composite sample of sound deadening material and one sample of sand were collected by Kevin Hayes of DTC, on July 25, 2002, and analyzed for lead by U. S. Environmental Protection Agency (USEPA) Method SW-846 6010. The analysis was performed by Complete Environmental Testing (CET), Inc., in accordance with USEPA Toxicity Characteristic Leaching Procedure Method (TCLP) Method 1311. As indicated by the analytical results presented in Table 3-2, the sound deadening material is not Resource Conservation and Recovery Act (RCRA) hazardous; however, the sand was RCRA hazardous. Copies of the analytical report and laboratory certification are provided in Appendix G.

Hazardous wastes generated during cleanup activities included:

- One vacuum box (29,600 pounds) of lead-contaminated sand was transported by Clean Harbors Environmental Services on August 28, 2003, and taken to Clean Harbors of Connecticut, Inc., Bristol, Connecticut, for stabilization and subsequent landfilling.

- Three drums (165 gallons) of lead-contaminated decontamination water were transported by Clean Harbors Environmental Services and taken to Spring Grove Resource Recovery, Cincinnati, Ohio, on November 7, 2003, for treatment.

Table 3-3 summarizes these hazardous waste shipments. Copies of the waste profiles, Land Disposal Restriction (LDR) notifications, and hazardous waste manifests are provided in Appendix H.

Non-hazardous waste generated during project activities and subsequently disposed of includes:

- Asbestos – Twenty-nine bags (approximately 2 cubic yards) of ACM were removed by Asbest-O-Tech and transported by Waste Management to its facility in Rochester, New Hampshire, on May 28, 2003, for landfilling.

- Scrap metal from the bullet trap, ceiling deflectors, exhaust fan, and air handling system – one roll-off box (5,280 pounds) of scrap metal was transported by KC Metals and taken to its facility in New Haven, Connecticut, on September 8, 2003, for recycling.

- Demolition debris, including sound deadening material – two roll-off boxes (5.29 tons) of debris were transported by Waste Management and taken to its transfer station in New Haven, Connecticut, on August 27 and September 5, 2003, for landfilling.

- Demolition debris, including sound deadening material – one roll-off box (3.39 tons) of debris was transported by Waste Management and disposed of at Cherry Hill Landfill, North Branford, Connecticut, on September 12, 2003.

- Lead shot – one pail (weighed with scrap metal) of lead shot was transported by KC Metals and taken to its facility in New Haven, Connecticut, on September 8, 2003, for recycling.

Table 3-4 summarizes these non-hazardous waste shipments. Copies of the non-hazardous waste shipping documents are provided in Appendix I.

3.7 Site Monitoring

Asbestos clearance sampling was conducted to evaluate the absence or presence of airborne-asbestos fibers during the removal and disposal of bagged asbestos-containing adhesive associated with the green fiberboard sound deadening material. A copy of the air sampling report is provided in Appendix C.

Personal and area air monitoring for lead was conducted during lead removal operations. Information on airborne lead sampling and analytical methods is presented in Section 4.2 of this report. A copy of the site monitoring data is provided in Appendix J.

4.0 Sample Collection and Analysis

4.1 Lead Wipe Sampling Summary

To confirm that the lead contamination had been removed from the floor of the range, on September 29, 2003, personnel from Eagle Environmental, Inc., collected the samples described in Section 3.3, following procedures presented in the project Work Plan.

Horizontal surfaces were sampled to determine total lead content in the settled dust. Lead-in-dust wipe samples were generally secured over a 1-sf area following an "S" pattern from side-to-side, folded in half, and wiped over the same area at a 90° angle to the first "S" pattern (top-to-bottom). Latex gloves were changed between sampling episodes. Samples were then returned to the vials, sealed, and labeled for transport to the laboratory.

One field blank sample and two spike samples were also prepared and submitted for analysis. The field blank was prepared by removing and replacing the cap of the vial in the sampling area. The spike sample was prepared in the laboratory by treating sampling media with a known quantity of lead dust.

All lead-in-dust wipe samples were acid digested in accordance with USEPA Method SW-846 6010B. Results of the wipe sample analyses are summarized in Table 4-1 and are detailed in the laboratory analytical report provided in Appendix E. Wipe sample locations are shown on Figure 3-1. Copies of the Visual Clearance Form and the Dust Sampling Form are also provided in Appendix E.

The analytical results in Table 4-1 may be summarized as follows:

- After cleaning, the range had lead levels from <2.50 µg/sf (11 wall and ceiling samples) to 195 µg/sf (firing line floor, 001DT). The floor outside the entrance door had a lead level of 55 µg/sf. These results showed that the range lead levels were below the clearance criteria of 200 µg/sf.

Thus, based on these results, the clearance criteria of 200 µg/sf has been attained.

Following the floor sealing described in Section 3.4, four additional floor samples were collected by IT Corporation on October 10, 2003, to determine if the floor lead concentrations met the 94th

RSC's goal of 40 µg/sf. The sampling procedures were similar to that described above. Wipe sample locations are shown on Figure 3-1. A copy of the Dust Sampling Form is also provided in Appendix F. As shown by the data on Table 4-1, the lead concentrations ranged from 0.94 µg/sf (mid-range floor, 002DT) to 2.6 µg/sf (bullet trap – floor, mid-point, 004DT). Thus, based on these results, the 94th RSC's goal has been attained.

Via a letter dated October 23, 2003, the facility was notified that the clearance levels were attained and that the range could be reoccupied. A copy of the clearance certification letter is provided in Appendix K.

4.2 Air Monitoring Sampling Summary

IT Corporation performed airborne lead monitoring on August 22, August 25, and August 26, 2003.

Air monitoring consisted of taking background, personal, excursion, and perimeter samples throughout this project to comply with Occupational Safety and Health Administration (OSHA) and USEPA rules and regulations during lead clean-up.

All air samples were prepared and analyzed in accordance with National Institute for Occupational Safety and Health (NIOSH) Method 7300 using a Thermo Jarrell Ash 61E (ICP) purged spectrometer. A copy of the air monitoring data is provided in Appendix J.

5.0 Conclusions

In total, all the range structures associated with the indoor range at the SSGT George D. Libbey U.S. Army Reserve Center, New Haven, Connecticut, were successfully removed, characterized for disposal, and properly disposed of as indicated below:

- Hazardous, lead-contaminated waste – one vacuum box (29,600 pounds) of sand and three drums (165 gallons) of water
- Asbestos – 29 bags (approximately 2 cubic yards) of ACM adhesive associated with the green fiberboard sound deadening material
- Recycled metal – three roll-off box (5,280 pounds) of scrap metal and one pail (weighed with scrap metal) of lead shot
- Non-hazardous waste – three roll-off boxes (8.68 tons) of debris.

All removal activities were performed as specified in the project SOW and Work Plan, using direct Health and Safety support involving personal and area air monitoring.

Clearance wipe samples document that residual lead levels in the range concrete based on post-floor sealing sampling are below the 94th RSC's goal of 40 µg/sf. At the completion of site operations for this activity, all planned objectives were met. Based on a review of the clearance wipe sample data, IT concludes that no further range cleanup is necessary for the Guy Cardillo facility. IT further certifies that the range cleaning activities have successfully attained the project clearance objectives and the range is approved for reoccupancy. Range clearance procedures consisted of the following:

- A surface-by-surface visual examination to verify that:
  - The lead hazard control work was completed as required
  - No known or suspected lead dust surfaces are still present in the range at levels that exceed the project clearance level of 200 µg/sf.

- Clearance sampling consisting of collecting wipe samples from the floor, wall, and ceiling surfaces and analyzing the samples for lead.

Please note that although the range has been cleaned to below the project clearance levels, small amounts of lead dust may be present in the range. The OSHA Construction Industry Standard for Lead (29 CFR 1926.62) should be reviewed before any remodeling activities that may cause a release of dust on wall and floor surfaces are undertaken. The OSHA standard requires certain

controls to reduce or maintain worker exposures less than the Permissible Exposure Limit (PEL) of 50 $\mu g/m^3$ of lead. The employer must protect the worker from lead.

TABLES

Table 3-1
Asbestos Sample Analytical Results
SSGT George D. Libbey U.S. Army Reserve Center, CT007
New Haven, CT

Sample Number	Material	Sample Date	Asbestos Content
7-25-JH-01	HVAC flex connector	7/25/02	None
7-25-JH-02-01	Joint compound (green fiberboard)	7/25/02	None
7-25-JH-03	Masitc on white fiberboard	7/25/02	None
7-25-JH-04	Fiberboard (white)	7/25/02	None
7-25-JH-05-01	Mortar compound (green fiberboard)	7/25/02	None
7-25-JH-06	Fiberboard (green)	7/25/02	4% Chrysotile

Table 3-2
Disposal Sample Analytical Results
SSGT George D. Libbey U.S. Army Reserve Center, CT007
New Haven, CT

Sample ID	CCDNHCT-1	NHCT-1	TCLP Regulatory Limit
Media	Wall/ceiling tile debris	Sand	
Sample Date	7/25/02	7/25/02	
TCLP Metals (mg/L)			
Lead	0.32	1,900	5

Table 3-3
Hazardous Waste Disposal Log
SSGT George D. Libbey U.S. Army Reserve Center, CT007
New Haven, CT

Waste Type	Code	Shipment Date	Volume/ Weight	Transporter	TSD Facility	Manifest	Doc. #	Disposal Method
Hazardous Sand	D008	8/28/2003	Vacuum Box (29,600 lbs)	Clean Harbors	Clean Harbors, Bristol, CT	CT F1055872	55872	Stabilization/ Landfill
Decontamination water	D008	11/7/03	3 Drums (165 gal)	Clean Harbors	Spring Grove Resource Recovery, Cincinnati, OH	CT F1054187	none	Treatment

Table 3-4
Non-Hazardous Waste Disposal Log
SSGT George D. Libbey U.S. Army Reserve Center, CT007
New Haven, CT

Waste Type	Shipment Date	Volume/ Weight	Transporter	TSD Facility	Document Number	Disposal Method
Asbestos	5/28/03	29 Bags (2 cubic yards)	Waste Management N.E.E.T., Inc.	Waste Management of New Hampshire, Rochester, NH	Document No. 99 72050	Landfill
Scrap metal	9/8/03	1 Roll-off (5280 lbs	KC Metals	KC Metals, New Haven, CT	Weigh Ticket 616520	Recycle
Demolition debris including sound deadening material	8/27/03	1 Roll-off (2.71 tons)	Waste Management	Waste Management, New Haven Transfer Station, New Haven, CT	Manifest 377711	Landfill
	9/5/03	1 Roll-off (2.58 tons)			Manifest 379684	
	9/12/03	1 Roll-off (3.39 tons)	Waste Management	Cherry Hill Landfill, North Branford, CT	Weigh ticket 381121	
Lead shot	9/8/03	1 Pail (weighed w/ scrap metal)	KC Metals	KC Metals, New Haven, CT	Weigh Ticket 616520	Recycle

Table 4-1
Lead Wipe Clearance Sample Results (µg/sf)[1]
SSGT George D. Libbey U.S. Army Reserve Center, CT007
New Haven, CT

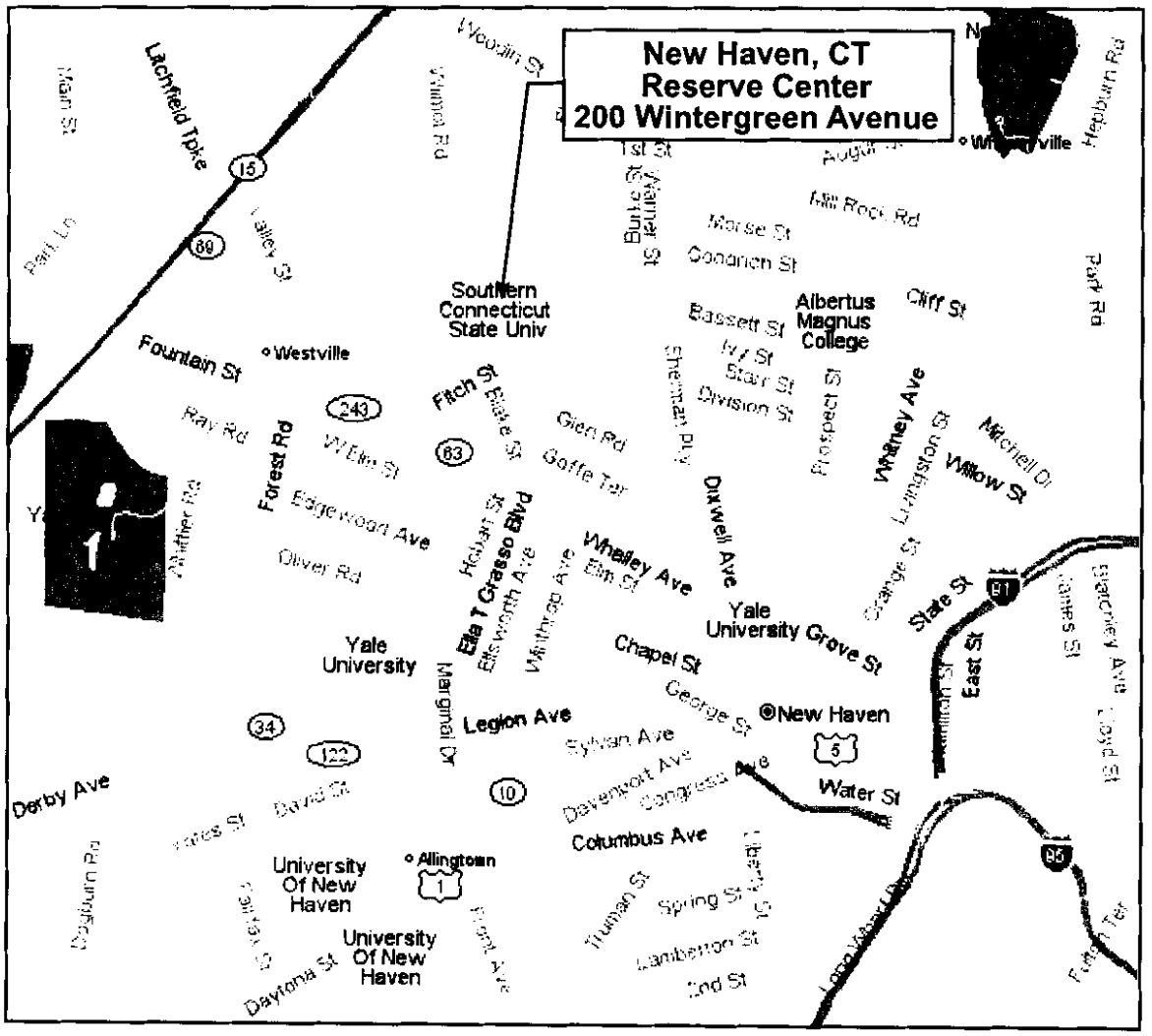
Site/Date Code	94CTNEW03SEP29[2]			94CTNEW03OCT10	
Sampler	Eagle Environmental, Inc.			IT Corportation	
Location	Sample ID	Result[3]	Comment	Sample ID	Result[3]
Firing line floor	001DT	**195**		001DT	**1.07**
Mid-range floor	002DT	**96**		002DT	**0.94**
Bullet trap - firing line side floor	003DT	**40**		003DT	**1.42**
Bullet trap - wall side floor	004DT	**23**		No Sample	
Bullet trap - floor, mid-point	No Sample			004DT	**2.6**
Side wall - left, 2'	005DT	**<2.50**		No Sample	
Side wall - left, 4'	006DT	**<2.50**		No Sample	
Side wall - left, 6'	007DT	**2.93**		No Sample	
Side wall - right, 2'	008DT	**<2.50**		No Sample	
Side wall - right, 4'	009DT	**3.58**		No Sample	
Side wall - right, 6'	010DT	**<2.50**		No Sample	
Front wall - behind bullet trap, L	011DT	**<2.50**		No Sample	
Front wall - behind bullet trap, C	012DT	**<2.50**		No Sample	
Front wall - behind bullet trap, R	013DT	**<2.50**		No Sample	
Back wall - behind firing line, L	014DT	**<2.50**		No Sample	
Back wall - behind firing line, C	015DT	**<2.50**		No Sample	
Back wall - behind firing line, R	016DT	**<2.50**		No Sample	
Floor outside of range	017DT	**55**		No Sample	
Blank	018DT	<2.5		No Sample	
Spike #1	019DT	267	237 µg spike	No Sample	
Spike #2	020DT	71	50 µg spike	No Sample	
Ceiling - mid-range	021DT	**<2.50**		No Sample	
Ceiling - bullet trap, firing line side	022DT	**2.94**		No Sample	

(1) = Results expressed in micrograms per square foot (µg/sf) of surface area, except Field Blank and Spike Sample, which are µg/wipe.

(2) = The sampler used an incorrect format for the date code. This table reflects the correct format.

(3) = Results (other than blanks or spikes) in **bold** type are below the clearance level of 200 µg/sf.

FIGURES



Source Map: MapQuest.com, Inc.

N

Scale - Miles

0 .5 1

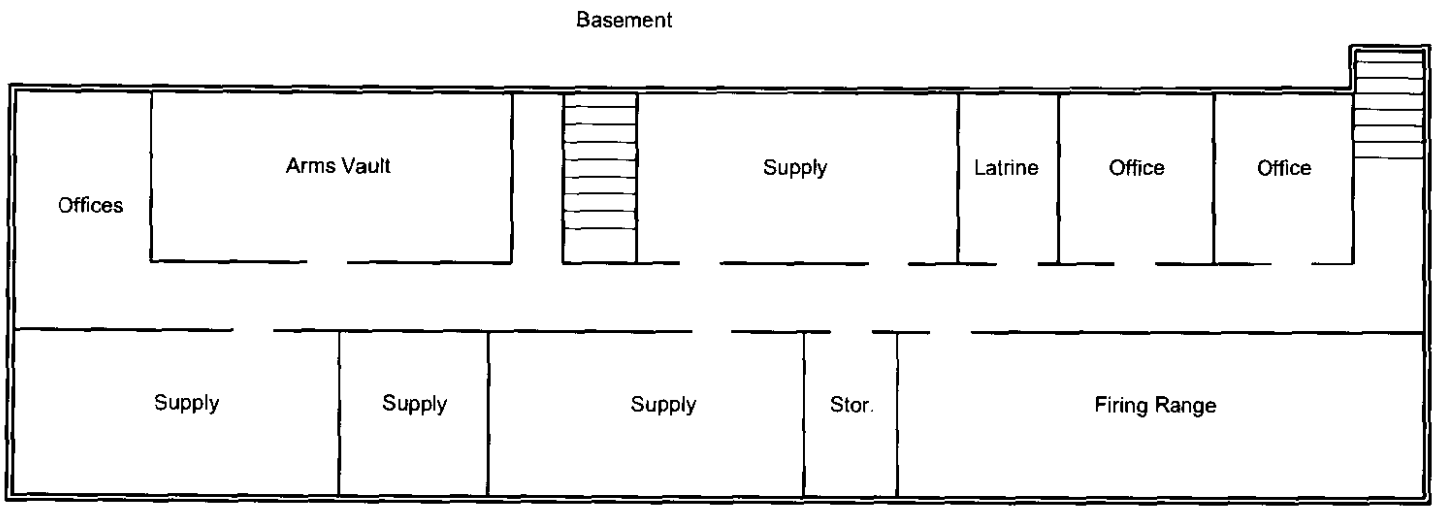
CONNECTICUT

QUADRANGLE LOCATION

IT CORPORATION

Figure 1-1.
Site Location Map.
New Haven, CT (CT007) Reserve Center.

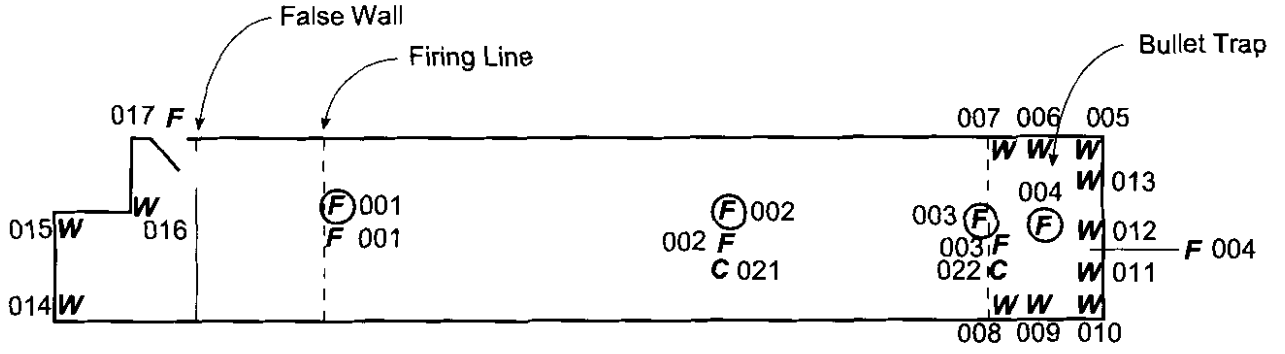
DRAWING NO.	CHECKED BY	APPROVED BY
K-807744-0301-6/03-w		
DRAWING BY	KMS	6/9/03



IT CORPORATION

Figure 1-2.
Facility Layout.
NewHaven, CT (CT007) Reserve Center.

DRAWING BY	KMS	CHECKED BY			DRAWING NO.
	6/16/02	APPROVED BY			K-807744-0399-6/02-w



Legend	
	Sample Date
F/W/C	29 Sep 03
(F)	10 Oct 03

Scale - Feet

0 5 10 20

Notes: ***F*** (floor), ***W*** (wall), and ***C*** (ceiling) designate the location of the sample.
Sample 018, collected on 29 Sep 03, was a blank.
Samples 019 and 020, collected on 29 Sep 03, were spikes.

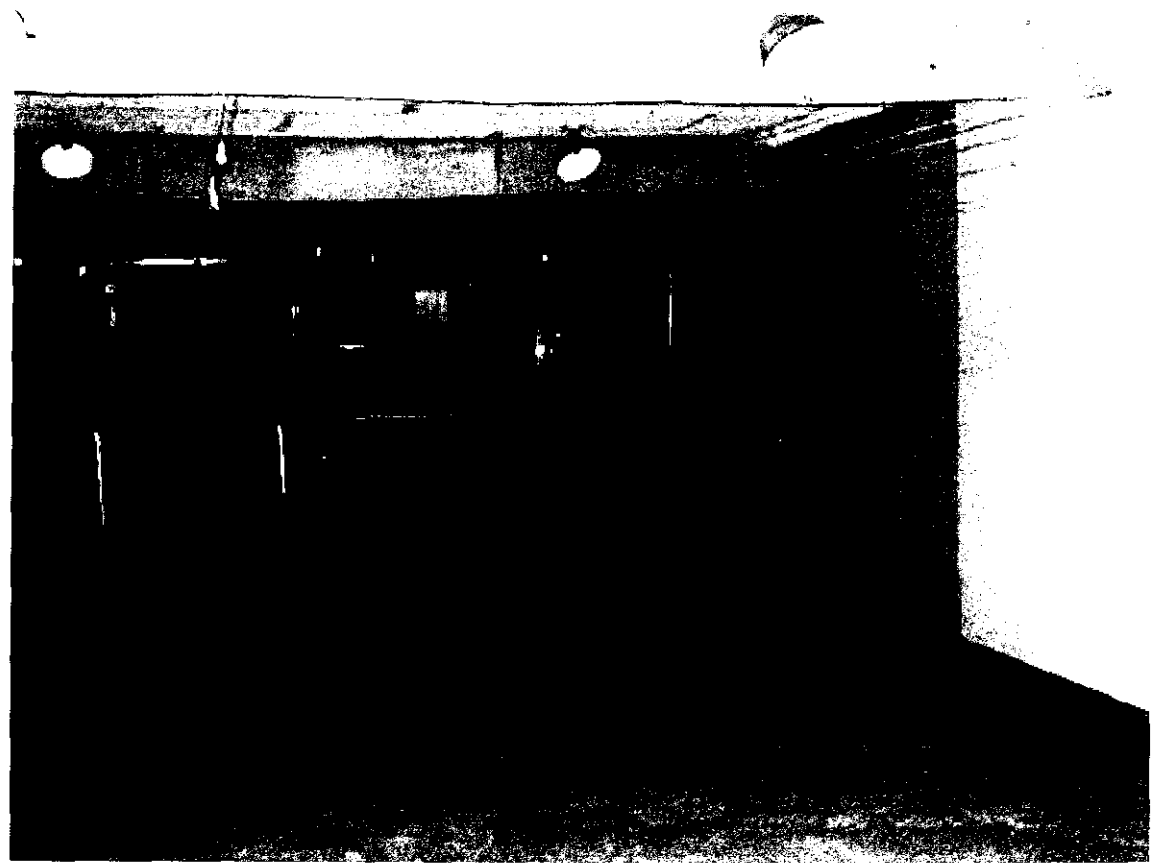
IT CORPORATION

Figure 3-1.
Clearance Wipe Sample Locations.
New Haven, CT (CT007) Reserve Center.

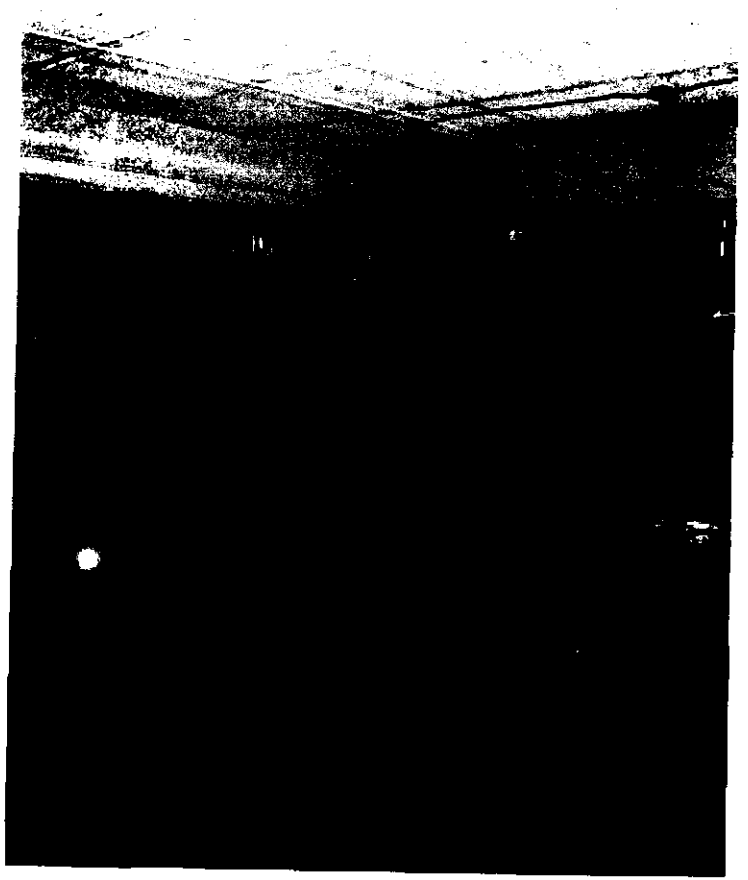
DRAWING BY	KMS	CHECKED BY			DRAWING NO.
	7/9/02	APPROVED BY			K-807744-0399-7/02-w

APPENDIX A
Photographs

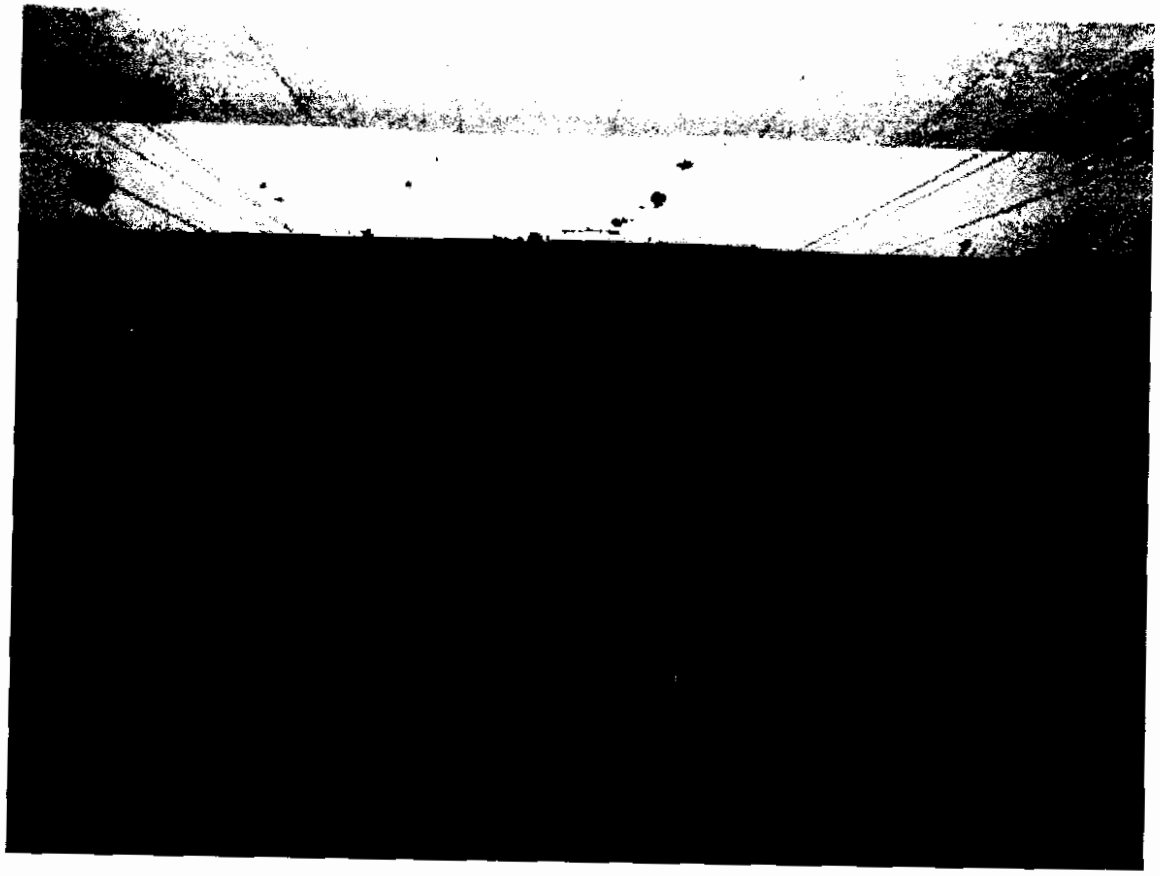
New Haven (CT007) Photo No. 1 – Range overview, 4 pt range looking toward the firing line area. Note the sound deadening material and false wall.



New Haven (CT007)
Photo No. 2 – Closer view of the firing line.

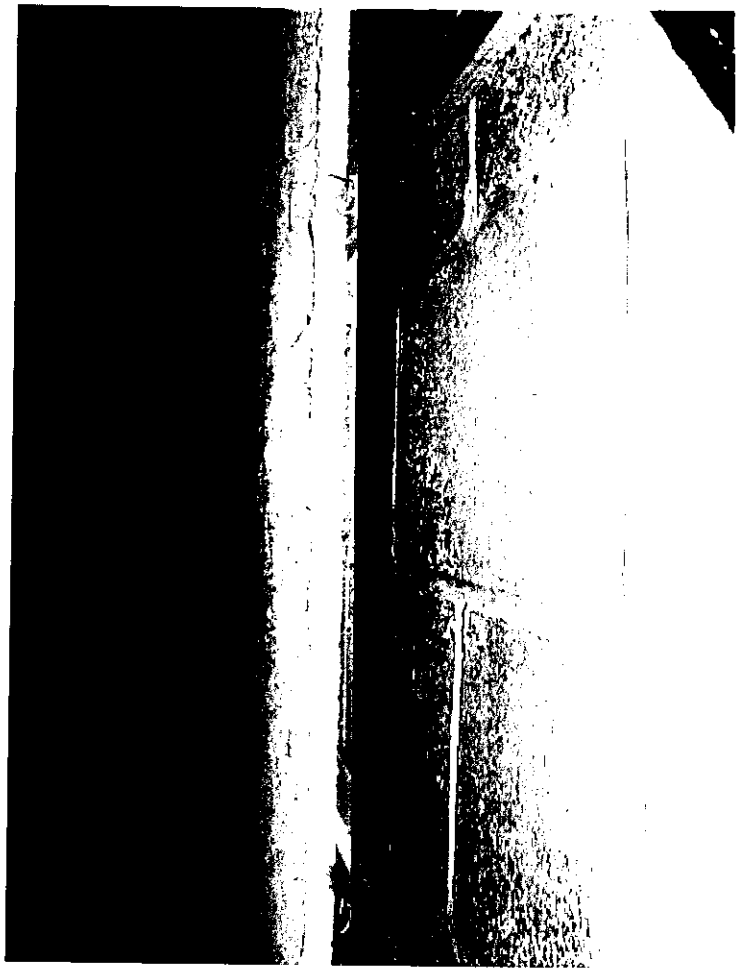


New Haven (CT007) Photo No. 3 – View of the bullet trap area.

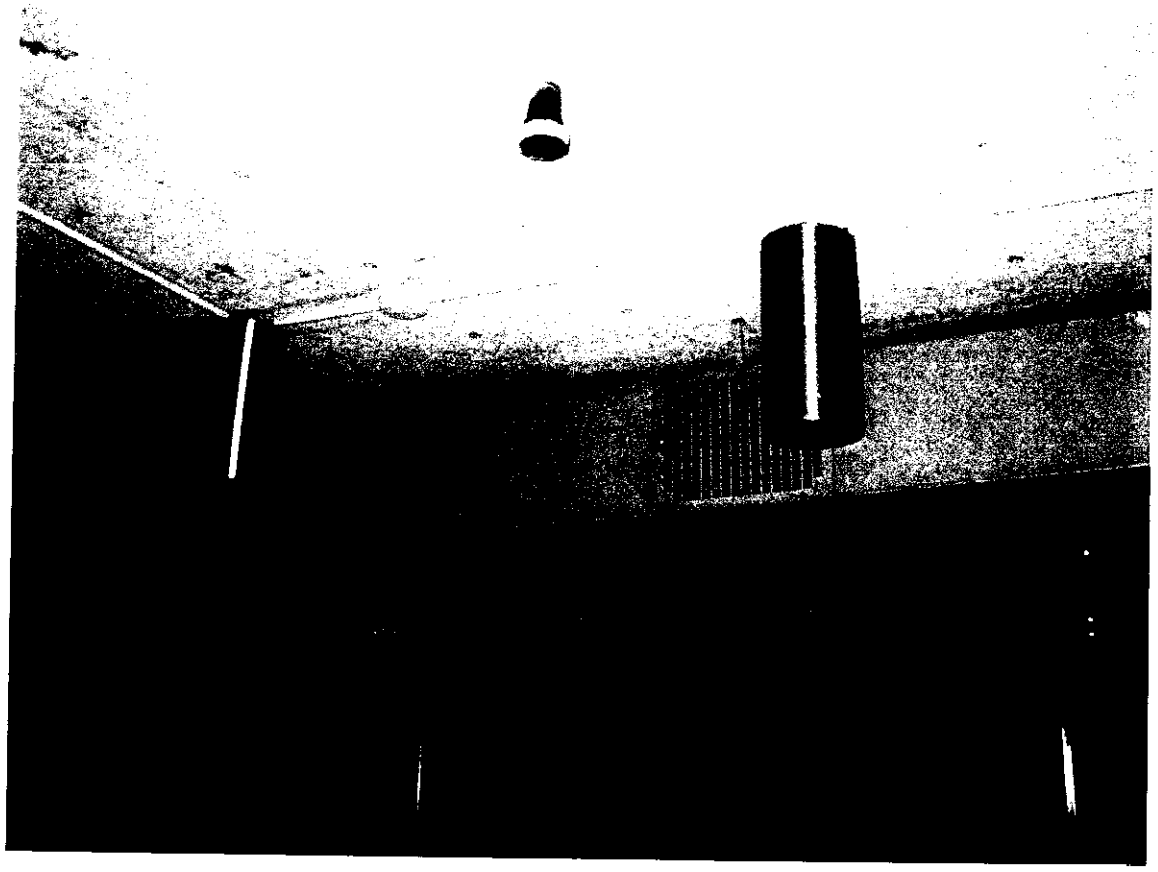


New Haven (CT007) Photo No. 4 – Closer view of the bullet trap area. Note the sand in the trap and the plastic covering.

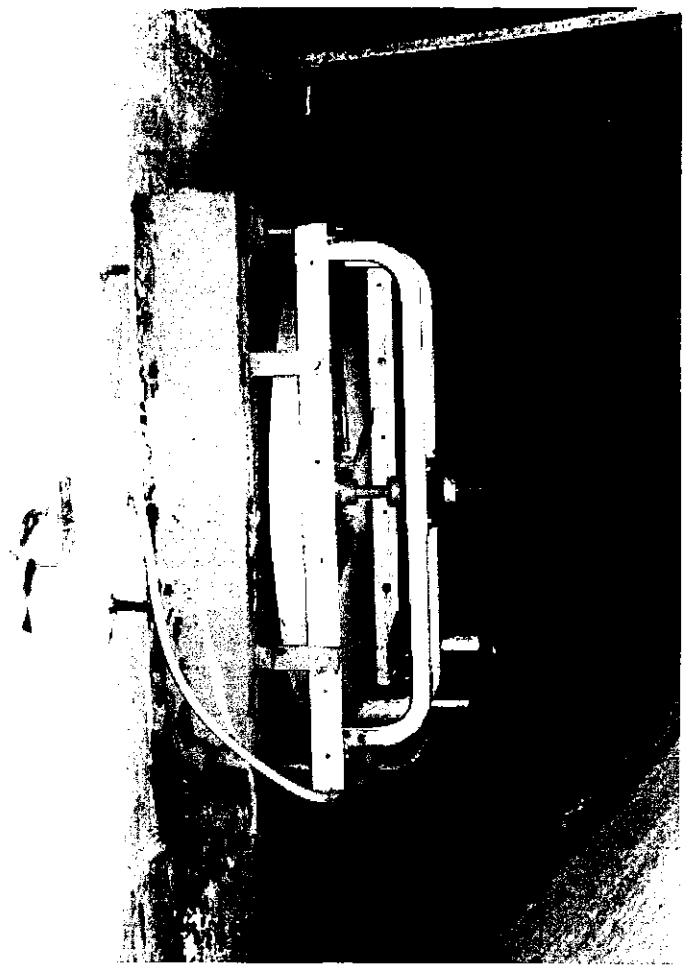
New Haven (CT007)
Photo No. 5 – Closer view of the sound deadening material in the firing line area.



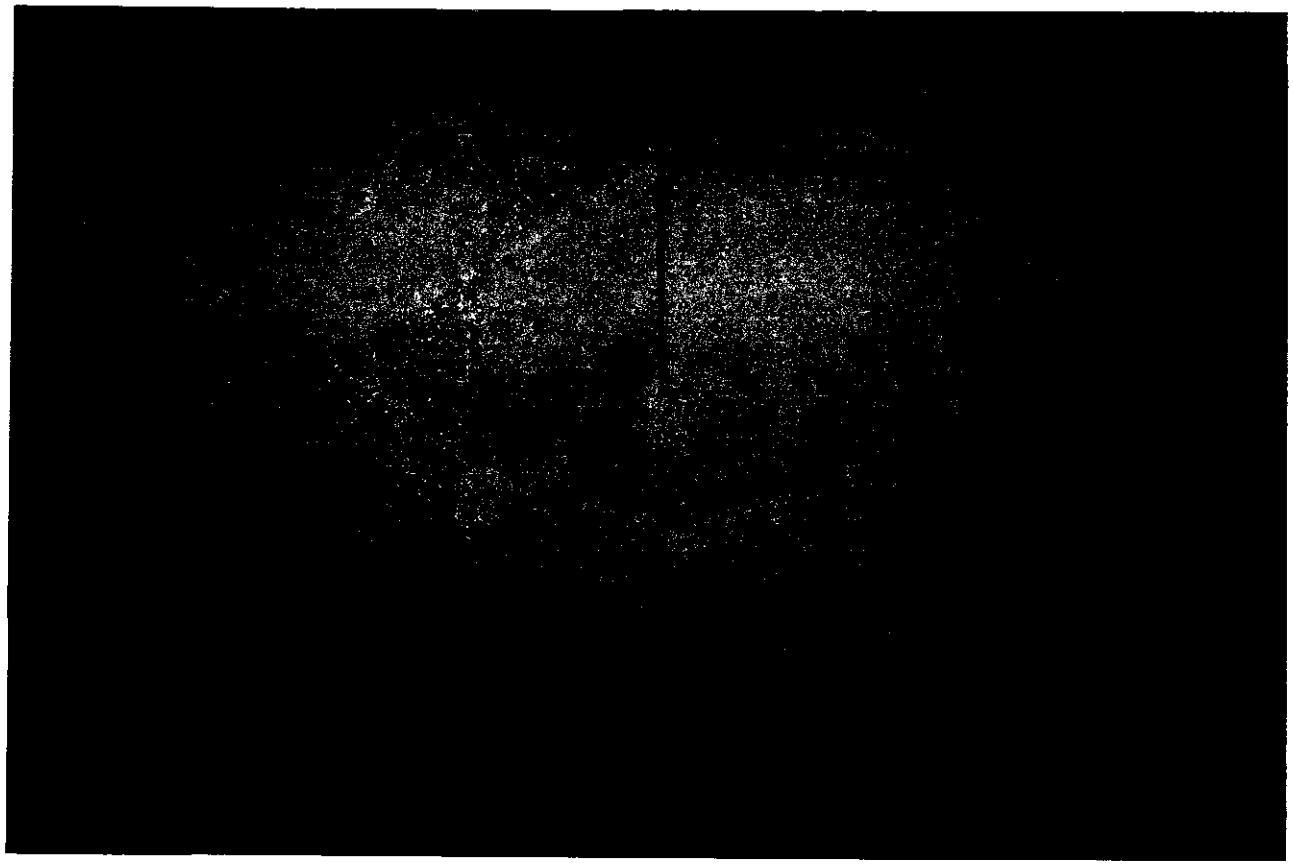
New Haven (CT007) Photo No. 6 – View of the ductwork and air vents above the firing line area.



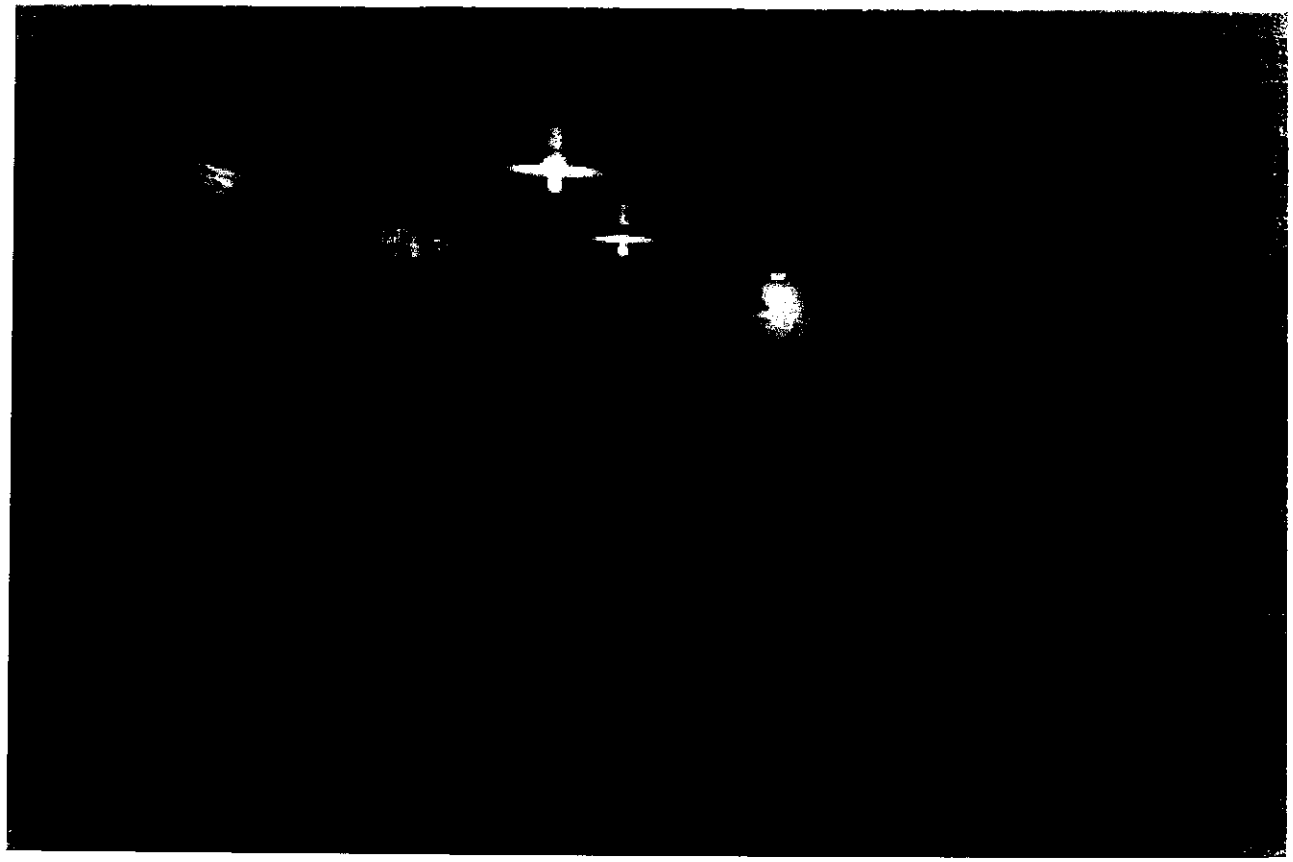
New Haven (CT007)
Photo No. 7 – View of the exhaust fan located behind the bullet trap.



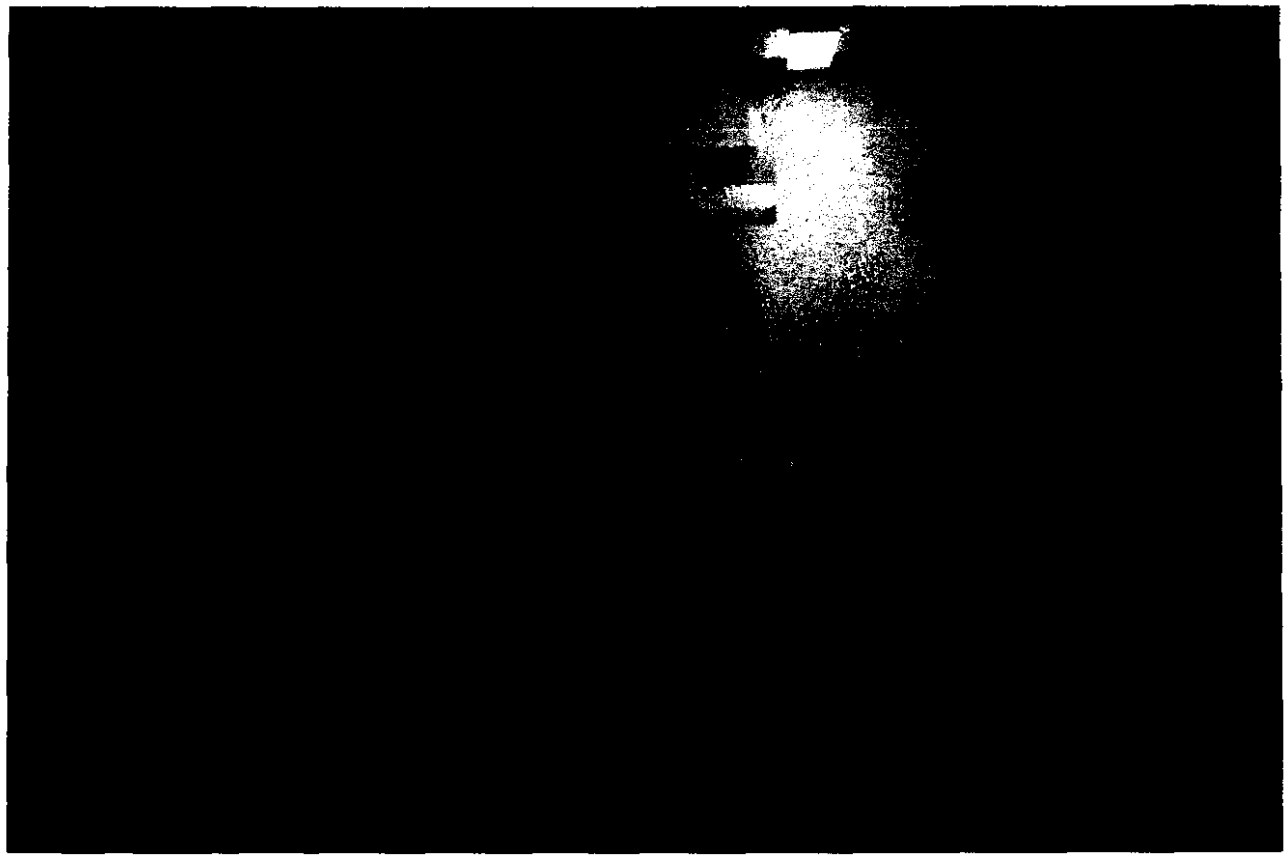
New Haven (CT007) Photo No. 8 – View of the exhaust fan area after removal and sealing activities.



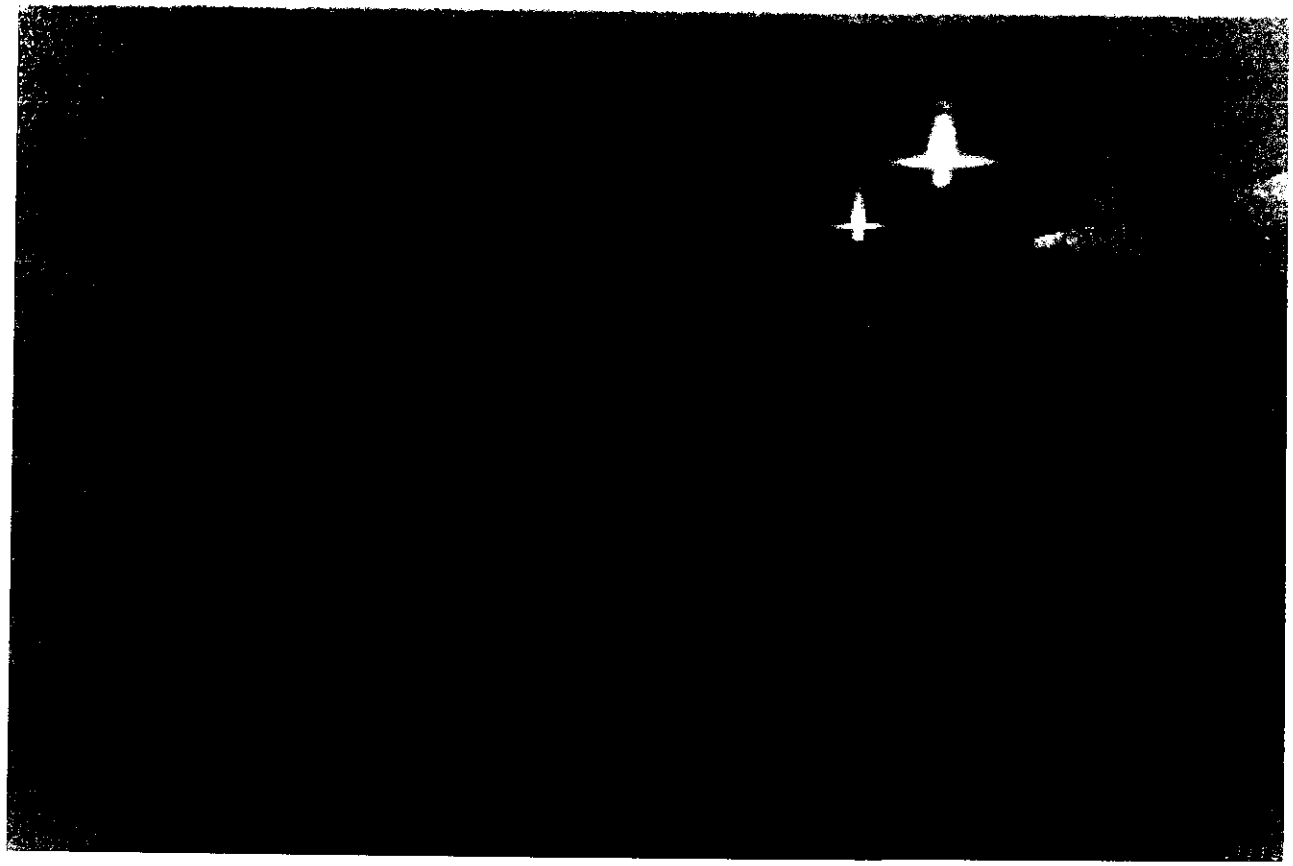
New Haven (CT007) Photo No. 9 – Range overview, looking toward the firing line area after cleanup activities and application of lead barrier paint.



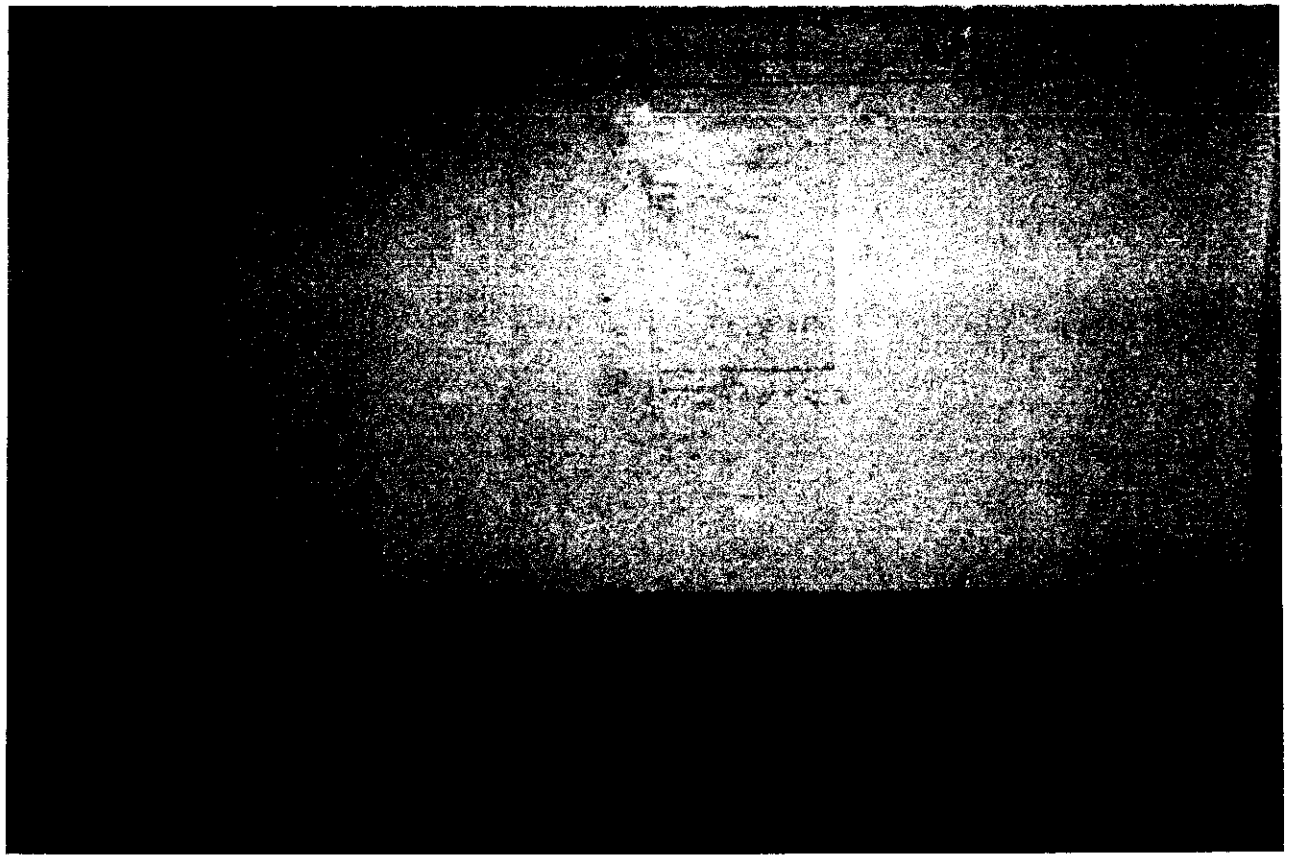
New Haven (CT007) Photo No. 10 – Closer view of the firing line after cleanup activities and application of lead barrier paint.



New Haven (CT007) Photo No. 11 – Range overview, looking toward the bullet trap area after cleanup activities and application of lead barrier paint.



New Haven (CT007) Photo No. 12 – Closer view of the bullet trap area after cleanup activities and application of lead barrier paint.



APPENDIX B
Asbestos Sampling Analytical Data, Eagle Environmental, Inc., and EMSL Analytical, Inc., July 2002

EAGLE ENVIRONMENTAL, INC.

EAGLE PROJECT NAME: DTC, INC Various Sites (Bring Ranges) in New England
PROJECT NO. 02-105.11 200 Wintergreen AVE.

POLARIZED LIGHT MICROSCOPY SAMPLE LOG

SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	% ASBESTOS
7-25-JH 01	0-01	HVAC Flex-connector	NAD
7-25-JH-02-01	0-01	Joint Compound (green fiberboard)	NAD
7-25-JH-03	0-02	mastic on white fiberboard	NAD
7-25-JH-04	0-02	Fiber board (white)	NAD
7-25-JH-05-01	0-02	mortar compound (green fiberboard)	NAD
7-25-JH-06	0-01	Fiber board (green)	4% Chrysotile

Test Method: PLM Turnaround Time: 3 day

Special Instructions:

_____ Stop on first positive for each set of samples. Please do not separate samples.

_____ Stop on first positive for samples numbers _____ thru _____

_____ Please Point Count any samples analyzed as Trace asbestos content.

Samples Collected By: Jerry Hunt Date: 7-25-02 Time: 11:30

Samples Sent By: [illegible] Date: 7-25-02 Time: PM

Samples Received By: _____ Date: _____ Time: _____

Shipped To: EMSL

P:\Admin\Forms2000\PLMSAMPL.WPD

EMSL Analytical, Inc.
175 Clearbrook Road, Elmsford, NY 10523
Phone: 914-592-4659 Fax: 9145926798 Email: elmsfordlab@emsl.com

Attn: Eagle Environmental, Inc. (CT)
481 North Main Street
Unit 11
Bristol, CT 06010
Fax: (860) 585-7034 Phone: 860-589-8257
Project: DTC, INC. VARIOUS SIZES (FIRING RANGES) IN NEW ENGLAND- 200 WINTERGREEN AVE.- 02-105.11

Customer ID: EEVM50
Customer PO:
Received: 07/26/02 9:00 AM
EMSL Order: 220200330
EMSL Project ID:
Analysis Date: 7/30/2002

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

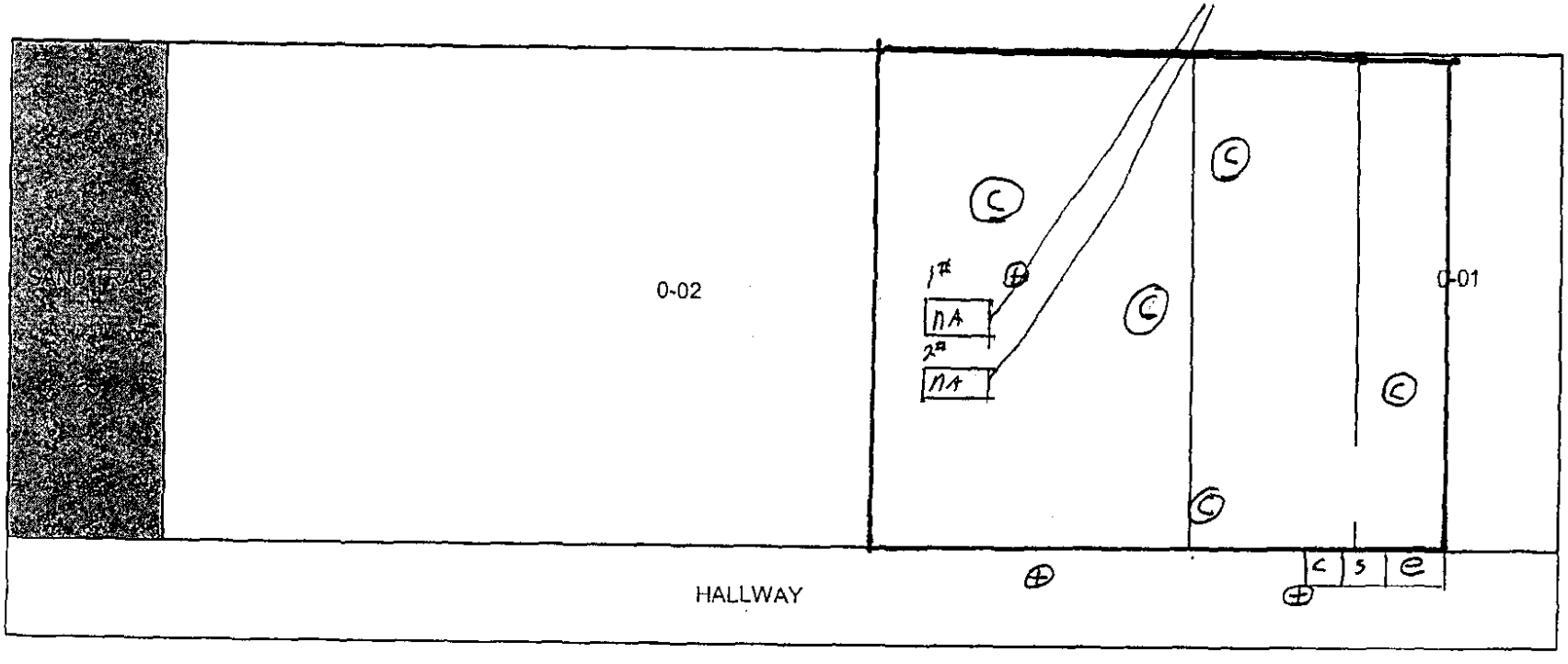
Sample	Location	Appearance	Treatment	Non-Asbestos %	Fibrous	Non-Asbestos %	Non-Fibrous	Asbestos %	Type
7-25-JH-01 220200330-0001	0-01	Green Non-Fibrous Homogeneous	Ashed Dissolved	5%	Cellulose	80% 15%	Non-fibrous (other) CA Carbonite	None Detected	
7-25-JH-02-01 220200330-0002	0-01	Green Non-Fibrous Homogeneous	Crushed Dissolved	<1%	Cellulose	40% 60%	Non-fibrous (other) CA Carbonite	None Detected	
7-25-JH-03 220200330-0003	0-02	Brown Non-Fibrous Homogeneous	Crushed	13%	Cellulose	72% 15%	Non-fibrous (other) CA Carbonite	None Detected	
7-25-JH-04 220200330-0004	0-02	Green Non-Fibrous Homogeneous	Ashed Dissolved	5%	Cellulose	75% 20%	Non-fibrous (other) CA Carbonite	None Detected	
7-25-JH-05-01 220200330-0005	0-02	Brown Non-Fibrous Homogeneous	Crushed	12%	Cellulose	43% 45%	Non-fibrous (other) CA Carbonite	None Detected	
7-25-JH-06 220200330-0006	0-01	Gray Non-Fibrous Homogeneous	Crushed	13%	Cellulose	33% 50%	Non-fibrous (other) CA Carbonite	4%	Chrysotile

Analyst(s) Antoline M. Correia
Tony Correia (6)

or other approved signatory

PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Negative PLM results cannot be guaranteed. Samples reported as <1% or none detected should be tested with TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government.
Analysis performed by EMSL Elmsford (NVLAP #200532-0), NY ELAP 11663

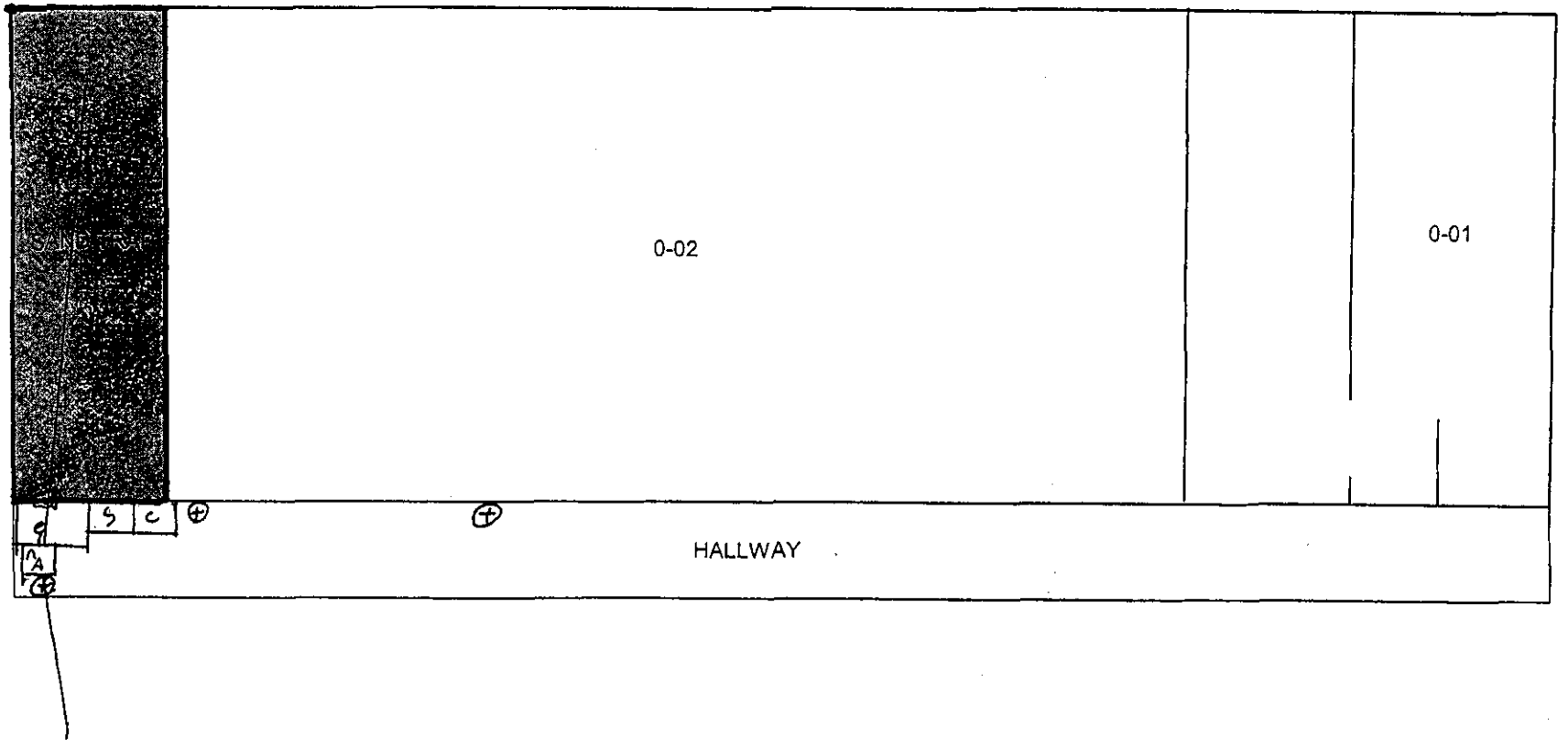
PLM-1



Legend
C - clean Room
S - Shower
e - equipment Room
NA - neg-air machine
⊕ - perimeter sample location
(C) - clearance sample location.

N.T.S.

EAGLE ENVIRONMENTAL, INC. 481 NORTH MAIN STREET BRISTOL, CONNECTICUT 06010 Phone: (860) 589-8257	**FIRING RANGE ABATEMENT PLAN** **200 WINTERGREEN AVENUE** **NEW HAVEN, CONNECTICUT**	**ASB-01** 11/7/02 | 02-172



N.T.S.

EAGLE ENVIRONMENTAL, INC.
481 NORTH MAIN STREET
BRISTOL, CONNECTICUT 06010
Phone: (860) 589-8257

FIRING RANGE ABATEMENT PLAN
200 WINTERGREEN AVENUE
NEW HAVEN, CONNECTICUT

ASB-01

11/7/02 | 02-172

EAGLE ENVIRONMENTAL, INC.

PROJECT MONITORING LOG

Date: 2-4-03 **Eagle Project No.:** 02-108.11
Abatement Site: DTC: USARC 200 Wintergreen New Haven, CT
Work Area: Basement Firing Range
Abatement Contractor: Asbest-o-Tech
Abatement Supervisor: Jerry Hoffman
Eagle Project Monitor: Jerry Hunt **State License No.:** 000466

FIELD NOTES

TIME	DESCRIPTION
07:25	Eagle on site
07:35	Contractor on site with 1 supervisor & 2 worker. He said That they will be teardown containment in Area 1 and moving out equipment while clearance samples are running.
7:45	Setting up pumps for clearance samples in Area #2 behind Ballistrap.
8:00	Blowing down containment with a power sweeper
8:10	Pre calibrated pumps and set out 5 PCM clearance samples in Area #2 behind ballistrap.
8:25	Prepping & Reading yesterday afternoon samples.
9:05	Finish reading samples slides, all were below .01f/m².
9:20	Setting up to collect Area #2 final air clearance samples.
9:25	Post-calibrated pumps and collected clearance samples from area #2.
9:35	Prepping and reading clearance samples.
10:15	Finish reading clearance samples from Area #2. All were below .01f/m².
10:35	Notified Contractor that Area #2 cleared. Waiting on contractor to teardown remaining containments in Area #1 & #2.
11:15	Contractor arrives and starts teardown containments
13:42	All poly and tape gone and in bags equipment

481 NORTH MAIN STREET • UNIT 11 • BRISTOL, CT 06010
PHONE (860) 589-8257 • FAX (860) 585-7034

TIME	DESCRIPTION
13:42	all stored in van. along with waste bags.
13:45	left site

EAGLE ENVIRONMENTAL, INC.

WORK AREA AND CONTAINMENT DAILY CHECK LIST

WORK AREA INFORMATION

Date: 2-4-03 Eagle Project Number: 02-105.11

Building: 200 Wintergreen Ave Floor: Basement

Work Area: Firing Range behind bullet trap

CONTAINMENT

1) Breaches in containment: Yes____ No ✓ : If yes where_____

Corrective actions taken_____

2) Manometer reading: — inches of water
3) Smoke test containment: Yes_____ No: ✓
4) All ingresses to the work area posted with warning signs: Yes ✓ No:_____
5) Wall poly intact: Yes ✓ No:_____
6) Number of negative air machines running: 1
7) Number of back up negative air machines in containment: 0
8) Negative air machines exhausting outside the building: Yes ✓ No_____
9) Airless sprayer or water in work area operable: Yes ✓ No_____
10) All electrical devices equipped with GFCI: Yes ✓ No_____
11) Auxiliary lighting sufficient: Yes ✓ No_____

NOTES:_____

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EAGLE ENVIRONMENTAL, INC.

DAILY WASTE LOAD OUT LOG

WORK AREA INFORMATION

Date: 2-4-03 Eagle Project No. 02-PS.11

Building: 200 Wintergreen Ave Floor: Basement

Work Area: Firing Range Basement

WASTE LOAD OUT CHECK LIST

1) Type of asbestos-containing waste: Poly, disposable suits, tape
2) Waste containerization method: bags
3) All waste adequately wet: Yes
4) Waste generator labels applied: Yes
5) All waste double bagged: Yes
6) Number of bags or drums removed from work area: 10 bags / cu. yds.
7) Waste path from containment to waste container: Tovan
8) Waste container lined: Yes
9) Waste container posted with warning signs: Yes
10) Waste container locked following load out procedures: Yes
11) General clean-up required: Yes _____ No ✓

NOTES: _____

Project Monitor Name: Jerry Hunt Signature: Jerry Hunt
License No. 000466

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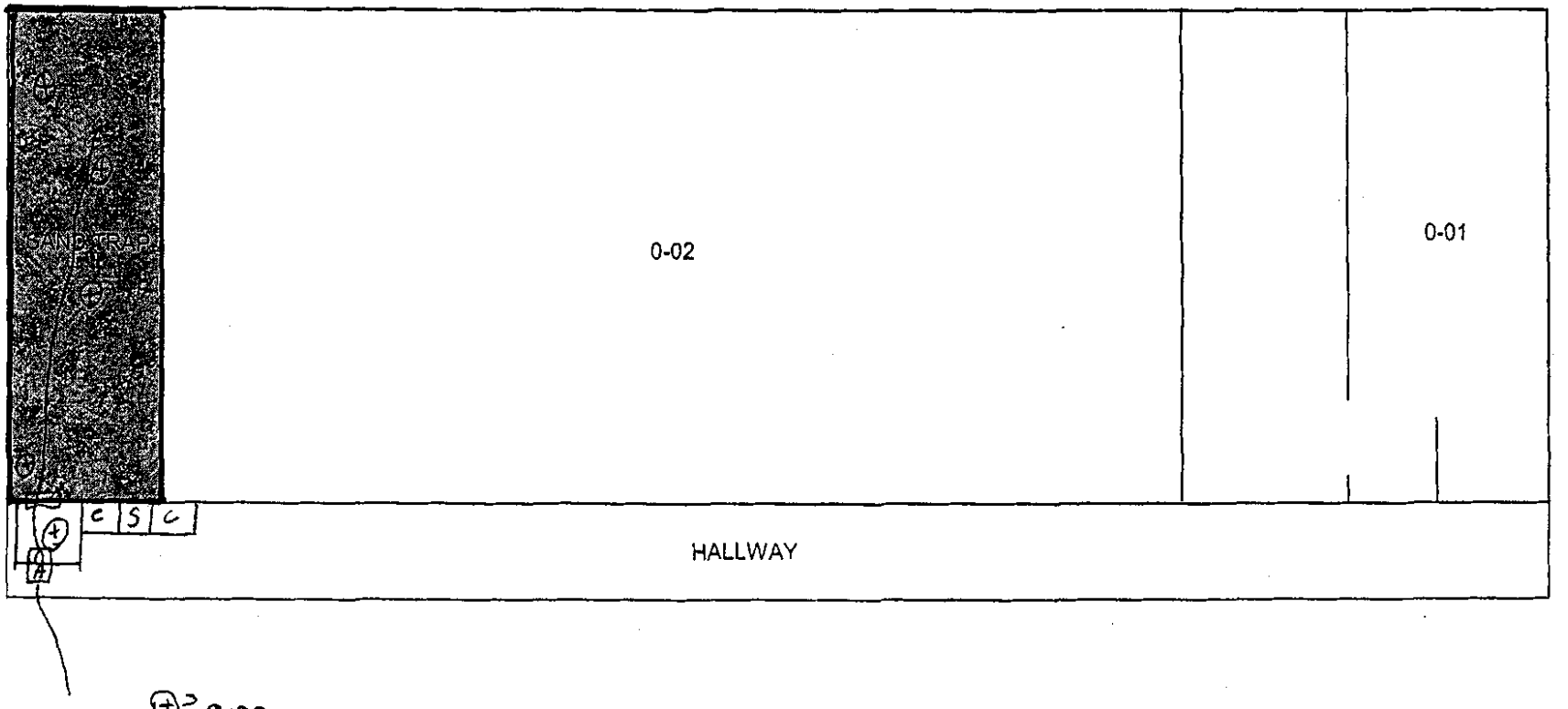

Legend
C-Clean Room
S-Shower
e-Equipment Room
n.a.-Neg. air machine
⊕-Clearance sample location

N.T.S.

EAGLE ENVIRONMENTAL, INC. 481 NORTH MAIN STREET BRISTOL, CONNECTICUT 06010 Phone: (860) 589-8257	**FIRING RANGE ABATEMENT PLAN** **200 WINTERGREEN AVENUE** **NEW HAVEN, CONNECTICUT**	**ASB-01** 11/7/02 | 02-172

EAGLE ENVIRONMENTAL, INC.

PROJECT MONITORING LOG

Date: 2-03-03 **Eagle Project No.:** 02-105.11
Abatement Site: DTC: USARC 200 Winterqreen Ave New Haven CT
Work Area: Basement Firing Range
Abatement Contractor: Asbest-o-Tech
Abatement Supervisor: Jerry Hoffman
Eagle Project Monitor: Jerry Hunt **State License No.:** 000466

FIELD NOTES

TIME	DESCRIPTION
07:20	Eagle on site Jerry Hunt PM.
07:30	Asbest-o-Tech on site with 2 worker and 1 supervisor
07:35	Talk to supervisor about today activity. He said they will removal panels from steel and start removal of adhesive from pins.
8:35	Removal of noise attenuating board is going on now behind the bullet trap.
9:15	Removal of noise attenuating board is continuing.
10:00	Finish removing noise attenuating board from behind bullet trap. now cleaning and putting ~~plastic~~ poly on bottom of metal where it goes to concrete.
9:00	Precalibrated 3 pump and set out samples one by decon, another one in the neg-air exhaust and the last one halfway down the hallway.
10:40	Suited up and went in to containment.
10:59	Came out of ~~total~~ containment.
11:35	Lunch
11:36	Post-calibrated pumps and set out a new samples and collected morning samples.
12:15	Back to work on removing adhesive from steel plates.
12:20	Prepping and reading this morning samples.
13:15	Finish Reading slides samples, all were below .01f/m³
13:30	Final cleaning of containment started.

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PHONE (860) 589-8257 • FAX (860) 585-7034

TIME	DESCRIPTION
14:00	Final cleaning continues behind bullet trap in firing range
14:10	Final Visual Inspection on Area #2 behind the Bullet trap. The area Passed. The contractor can now encapulate Area
14:20	Encapulate beginning Post-calibrated pumps and collected samples.

EAGLE ENVIRONMENTAL, INC.

PREABATEMENT CHECKLIST

Eagle Project No: 02-105.11 Date: 2-3-03

Eagle Job Name: DTC: USARC 200 [illegible] Location: New Haven CT

Contractor: Asbest-o-Tech Supervisor: Jerry Hoffman

Project Location: Basement Bullet Trap behind

Scope of Work: 205 sq ft. Olive adhesive

(Removal) Encapsulation Encasement Enclosure Glovebag

CHECKLIST: (Satisfactory — Yes or No or N/A)

1.Warning Signs	Yes
2.Entry Secured	Yes
3.Two Layers of 6 mil Poly	
All Penetrations	Yes
All Fixed Objects	Yes
Walls	Yes
Ceilings	no
4.Spray Applied Poly	
Walls	n/a
Ceilings	n/a
5.Decontamination Facilities	
Personnel	Yes
Equipment/Waste	Yes
Shower	Yes
Proper filtration system	Yes
6.Temporary Lighting	Yes
7.Electrical System Off	Yes
8.HVAC System Off	Yes
9.Communication System	no
10.Emergency Warning System	no
11.Emergency Exit	no
12.Negative Air	
Smoke Test	Yes
4 Air Changes/hr.	Yes
No. of Units	1
Manometer Reading	—
13. Type "C" System with Alarms	n/a

Log Book	Yes
Release Forms	Yes
Copy of Specifications	Yes
Copies of Regulations	Yes

Notes:

Circle One

(Pass) Fail

Name: Jerry Hunt Signature: Jerry Hunt

EAGLE ENVIRONMENTAL, INC.

WORK AREA AND CONTAINMENT DAILY CHECK LIST

WORK AREA INFORMATION

Date: 2-3-03 Eagle Project Number: 02-105.11

Building: 200 Wintergreen Ave Floor: Basement

Work Area: Behind Ballir Trap

CONTAINMENT

1) Breaches in containment: Yes____ No ✓: If yes where_____

Corrective actions taken_____

2) Manometer reading: ~ inches of water
3) Smoke test containment: Yes ✓ No:_____
4) All ingresses to the work area posted with warning signs: Yes ✓ No:_____
5) Wall poly intact: Yes ✓ No:_____
6) Number of negative air machines running: 1
7) Number of back up negative air machines in containment: 0
8) Negative air machines exhausting outside the building: Yes ✓ No_____
9) Airless sprayer or water in work area operable: Yes ✓ No_____
10) All electrical devices equipped with GFCI: Yes ✓ No_____
11) Auxiliary lighting sufficient: Yes ✓ No_____

NOTES:_____

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EAGLE ENVIRONMENTAL, INC.

Phase Contrast Microscopy Air Sampling Data Sheet

PROJECT NAME: DTC: USARC 200 Wintergreen Ave
PROJECT LOCATION: New Haven
WORK AREA DESIGNATION: Basement Ballistrap
MICROSCOPE#: 04

EAGLE PROJECT NO 02-105,11
SAMPLING DATE: 2-03-03
PROJECT MONITOR: Jerry Hunt
PROJECT MONITORING LICENSE: 000466

Sample Number	Sample Location	Project Activity	Sample Time (Minutes) On	Off	Total	Flow Rate (Liters/Minute) Pre	Post	Average Flow Rate (Liters/Minute)	Total Volume (Liters)	Fiber Count (Counted)	Concentration (Fibers/cc)
2-3 JH 01	outside Decon	Removal of Boxes (Noise Attenuation)	9:00	11:35	155	10	10	10	1550	19/100	.0060
2-3 JH 02	neg-air exhaust	↓	9:00	11:35	155	10	10	10	1550	6/100	.0019
2-3 JH 03	Hallway	↓	9:00	11:35	155	10	10	10	1550	20/100	.0063
2-3 JH 04	outside Decon	Removal	11:35	14:20	165	10	10	10	1650	23/100	.0068
2-3 JH 05	neg-air exhaust	↓	11:35	14:20	165	10	10	10	1650	5/100	.0015
2-3 JH 06	Hallway	↓	11:35	14:20	165	10	10	10	1650	14/100	.0042
2-3 JH 07	Blanks	—								0/100	
2-3 JH 08										0/100	
2-3 JH 04	Duplicate Count									25/100	

Chain of Custody and Sample Receiving Log

Samples Analyzed By: Jerry Hunt Date: 2-3-03 Time: PM AAR# 8405
Samples Collected By: Jerry Hunt Date: 2-3-03 Time: AM
Samples Relinquished By: Date: Time:
Samples Received By: Date: Time:
Results Review By: [signature] Date: 2.4.03 Time:

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EAGLE ENVIRONMENTAL, INC.

DAILY WASTE LOAD OUT LOG

WORK AREA INFORMATION

Date: 2-3-03 Eagle Project No. 02-105,11

Building: 200 Wintergreen Ave Floor: Basement

Work Area: Behind Bullit trap

WASTE LOAD OUT CHECK LIST

1) Type of asbestos-containing waste: adhesive, pipe, poly, disposable suits
2) Waste containerization method: bags 6mil poly
3) All waste adequately wet: yes
4) Waste generator labels applied: yes
5) All waste double bagged: yes
6) Number of bags or drums removed from work area: 10 bags ½ cu.yd
7) Waste path from containment to waste container: decon to van
8) Waste container lined: yes
9) Waste container posted with warning signs: yes
10) Waste container locked following load out procedures: yes
11) General clean-up required: Yes _____ No ✓

NOTES: _____

Project Monitor Name: Jerry Hunt Signature: Jerry Hunt
License No. 000466

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WASTE LOAD OUT FACILITY

1) Number of chambers: 3
2) Posted with warning signs: Yes ✓ No _____
3) Chambers sealed: Yes ✓ No _____
4) General clean-up required no

NOTES: _____

Project Monitor Signature: [signature] Date: 2-3-03

License No. 000466

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EAGLE ENVIRONMENTAL, INC.

February 25, 2003

Mr. Art Simonian
Diversified Technology Consultants, Inc.
556 Washington Avenue
North Haven, Connecticut 06473

RE: PCM Final Air Clearance Sampling and Inspection
200 Wintergreen Avenue
Basement Firing Range, Rooms 0-01 and 0-02
New Haven, Connecticut
Eagle Project No. 02-172

Dear Mr. Simonian:

On January 31, 2003 Eagle Environmental, Inc. conducted final air clearance sampling and a visual inspection at the above mentioned abatement site to ensure that the work area had been properly decontaminated and was suitable for reoccupancy. At the time of the inspection the negative air machines were operable and the worker decontamination unit was in place. A thorough inspection was conducted by Jerry Hunt, an Industrial Hygienist, and State of Connecticut Licensed Project Monitor with Eagle Environmental, Inc. Upon verification that four hundred forty-eight (448) square feet of olive adhesive associated with green noise attenuating board was removed from the work area, the area was encapsulated and final air clearance sampling was conducted once the encapsulant was dry.

Five (5) air samples were collected inside containment under aggressive sampling conditions in accordance with the State of Connecticut Department of Public Health (DPH) Regulations. At the completion of sampling, all samples were analyzed on-site by Phase Contrast Microscopy (PCM), utilizing NIOSH 7400 Counting Method, Issue #3, 1994.

Sample analyses confirmed that the work area met the DPH requirements for air clearance sampling following an asbestos abatement project.

All five samples were less than 0.010 fibers per cubic centimeter of air. Based upon these results the area is suitable for reoccupancy. Laboratory results supporting these findings are attached to this report.

Please call us directly if you have any questions regarding the content of this report.

Sincerely,

Eagle Environmental, Inc.

Peter J. Folmo
Vice President

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481 NORTH MAIN STREET • UNIT 11 • BRISTOL, CT 06010
PHONE (860) 589-8257 • FAX (860) 585-7034

EAGLE ENVIRONMENTAL, INC.

FINAL VISUAL INSPECTION

Eagle Project No.: 02-105.11 Date 1-31-03
Eagle Project Name: DTCI 9SARC 200 Wintergreen Location: New Haven
Contractor: Asbest-o-Tech Supervisor: Oscar Hernandez
Project Location: Basement Firing Range Rooms 0-01 + 0-02
Scope of Work: 448 sqft of Olive adhesive associated with green Noise Attenuating Board.

Type of Abatement (circle one)

(Removal) Encapsulation Glovebag Enclosure

Checklist (Within limits - yes or no)

Residual Dust:	**Below Eye Level**		**Above Eye Level**
Floor	Yes	Horizontal Surfaces	Yes
Horizontal Surfaces	Yes	Pipes	Yes
Pipes	Yes	Ducts	Yes
Ducts	Yes	Registers	N/A
Ventilation System	Yes	Lights	Yes
Registers	N/A	Miscellaneous Surfaces	Yes

Circle One

(PASS) FAIL

Field Notes: The Final Visual Inspection on Room 0-01, 0-02 Passed. Contractor can now encapulate area.

Jon [illegible]

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PHONE (860) 589-8257 • FAX (860) 585-7034

EAGLE ENVIRONMENTAL, INC.

Phase Contrast Microscopy Air Sampling Data Sheet

PROJECT NAME: DTC; 2/SARC 200 Winterogreen Ave
PROJECT LOCATION: New Haven CT
WORK AREA DESIGNATION: Firing Range in Basement
MICROSCOPE#: 04

EAGLE PROJECT NO 02-105.11
SAMPLING DATE: 1-31-03
PROJECT MONITOR: Jerry Hunny
PROJECT MONITORING LICENSE: 000466

Sample Number	Sample Location	Project Activity	Sample Time (Minutes) On	Off	Total	Flow Rate (Liters/Minute) Pre	Post	Average Flow Rate (Liters/Minute)	Total Volume (Liters)	Fiber Count (Fibers/cc)	Concentration (Fibers/cc)
1-31JH-04	Inside Containment	(FAC) Final Air Clearance	10:45	12:00	75	15	15	15	1125	15/100	.0065
1-31JH-05		(FAC)	10:45	12:00	75	15	15	15	1125	12/100	.0052
1-31JH-06		(FAC)	10:45	12:00	75	15	15	15	1125	16/100	.0070
1-31JH-07		(FAC)	10:45	12:00	75	15	15	15	1125	13/100	.0057
1-31JH-08		(FAC)	10:45	12:00	75	15	15	15	1125	12/100	.0052
1-31JH09										1/100	
1-31JH10										0/100	
131JH08	Duplicate Count									11/100	

Chain of Custody and Sample Receiving Log

Samples Analyzed By: Tom Hunt Date: 1-31-03 Time: Pm AAR# 8405
Samples Collected By: Jerry Hunt Date: 1-31-03 Time: PM
Samples Relinquished By: Date: Time:
Samples Received By: Date: Time:
Results Review By: Date: 2.4.03 Time:

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EAGLE ENVIRONMENTAL, INC.

February 25, 2003

Art Simonian
Diversified Technology Consultants, Inc.
556 Washington Avenue
North Haven, Connecticut 06473

RE: PCM Final Air Clearance Sampling and Inspection
200 Wintergreen Avenue
Area #2 – Basement Bullet Trap
New Haven, Connecticut
Eagle Project No. 02-172

Dear Mr. Simonian:

On February 3, 2003 Eagle Environmental, Inc. conducted final air clearance sampling and a visual inspection at the above mentioned abatement site to ensure that the work area had been properly decontaminated and was suitable for reoccupancy. At the time of the inspection the negative air machines were operable and the worker decontamination unit was in place. A thorough inspection was conducted by Jerry Hunt, an Industrial Hygienist, and State of Connecticut Licensed Project Monitor with Eagle Environmental, Inc. Upon verification that two hundred and five (205) square feet of olive adhesive on steel bullet trap was removed from the work area, the area was encapsulated and final air clearance sampling was conducted once the encapsulant was dry.

Five (5) air samples were collected inside containment under aggressive sampling conditions in accordance with the State of Connecticut Department of Public Health (DPH) Regulations. At the completion of sampling, all samples were analyzed on-site by Phase Contrast Microscopy (PCM), utilizing NIOSH 7400 Counting Method, Issue #3, 1994.

Sample analyses confirmed that the work area met the DPH requirements for air clearance sampling following an asbestos abatement project.

All five samples were less than 0.010 fibers per cubic centimeter of air. Based upon these results the area is suitable for reoccupancy. Laboratory results supporting these findings are attached to this report.

Please call us directly if you have any questions regarding the content of this report.

Sincerely,

Eagle Environmental, Inc.

Peter J. Folino
Vice President

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PHONE (860) 589-8257 • FAX (860) 585-7034

EAGLE ENVIRONMENTAL, INC.

FINAL VISUAL INSPECTION

Eagle Project No.: 02-105.11 Date 2-3-03
Eagle Project Name: DTC: USARC 200 Winterrgreen Ave Location: New Haven, CT
Contractor: Asbest-o-Tech Supervisor: Jerry Hoffman
Project Location: Area #2 Basement Behind Bullit Trap.
Scope of Work: 205 sq.ft of olive adhesive on steel bullit trap

Type of Abatement (circle one)

(Removal) Encapsulation Glovebag Enclosure

Checklist (Within limits - yes or no)

Residual Dust:	**Below Eye Level**		**Above Eye Level**
Floor	yes	Horizontal Surfaces	yes
Horizontal Surfaces	yes	Pipes	yes
Pipes	yes	Ducts	n/A
Ducts	n/A	Registers	n/A
Ventilation System	yes	Lights	yes
Registers	n/A	Miscellaneous Surfaces	yes

Circle One

(PASS) FAIL

Field Notes: The Final Visual Inspection on Area #2 behind Bullit Trap Passed. The contractor can now encapulate Area.

Jerry Hoffman

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PHONE (860) 589-8257 • FAX (860) 585-7034

EAGLE ENVIRONMENTAL, INC.

Phase Contrast Microscopy Air Sampling Data Sheet

PROJECT NAME: DTC; USARC 200 Wintergreen
EAGLE PROJECT NO 02-105.11
PROJECT LOCATION: New Haven CT
SAMPLING DATE: 2-4-03
WORK AREA DESIGNATION: Basement Firing Range
PROJECT MONITOR: Jerry Hunt
MICROSCOPE#: 04
PROJECT MONITORING LICENSE: 000966

Sample Number	Sample Location	Project Activity	Sample Time (Minutes) On	Off	Min	Flow Rate (Liters/Minute) Pre	Post	Average Flow Rate (Liters/Minute)	Total Volume (Liters)	Fiber Count (Fibers/cc)	Concentration (Fibers/cc)
2-4JH 01	Inside Containment	(FAC) Final Air Clearance	8:10	9:25	75	15	15	15	1125	12/100	.0052
2-4JH 02		(FAC)	8:10	9:25	75	15	15	15	1125	14/100	.0061
2-4JH 03		(FAC)	8:10	9:25	75	15	14.9	14.9	1117.5	13/100	.0057
2-4JH 04		(FAC)	8:10	9:25	75	15	15	15	1125	15/100	.0065
2-4JH 05		(FAC)	8:10	9:25	75	15	14.9	14.95	1121.25	16/100	.0070
2-4JH 06	Blank	—								0/100	
2-4JH 07	Blank	—								0/100	
2-4JH 05	Duplicate Count									14/100	

Chain of Custody and Sample Receiving Log

Samples Analyzed By: Jerry Hunt Date: 2-4-03 Time: AM AAR# 8405
Samples Collected By: Jerry Hunt Date: 2-4-03 Time: AM
Samples Relinquished By: Date: Time:
Samples Received By: Date: Time:
Results Review By: [signature] Date: 2.4.03 Time: pm

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STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

STATE USE ONLY

Postmark/Delivery Date: ___/___/___
Check #: _____
Amount: $ _____
Record #: _____

ASBESTOS ABATEMENT NOTIFICATION FORM

This form is to be completed and filed with the Connecticut State Department of Health Services ten (10) days before the start of asbestos abatement (except for emergency notifications) as required by Section 19a-332a-3 of the Connecticut State Regulation concerning Standards for Asbestos Abatement. EPA may also require notice before the start of asbestos abatement as per Title 40, Code of Federal Regulations, Part 61.

MAIL TO:

Connecticut Department of Public Health
Division of Environmental Health
Indoor Air Program
410 Capitol Avenue - MS# 51AIR
P.O. Box 340308
Hartford, CT 06134-0308

AOT Project# A2553

(Fill In/Circle Each Item)

1. Type of Notification: Connecticut License Number: 000028

(A.) New C. Cancellation E. Emergency-Describe: _____

B. Blanket D. Revised-Items Revised: _____

2. Name of Abatement Contractor Asbest-O-Tech, Inc.

Address 355 Sackett Point Road, Unit #4

City North Haven, State CT zip 06473

Phone (203) 234-7373 Contact Person Steven W. Lenoir, President

3. Facility Owner/Operator 94th RSC, Attn: AFRC-CMA-EN-O (Crothers)

Address 11 Saratoga Blvd.

City Ayer, State MA zip 01432-5216

Phone 978, 796-2247 Contact Person Tina Crothers

4. Facility Name U.S. Army Reserve Center Firing Range

Address 200 Wintergreen

City New Haven State CT zip 06

5. Abatement Project Start Date 01/27/03 Completion Date 02/28/03

6. Total Abatement Cost _____
(For Abatement Projects 160 Square Feet or Greater)

Phone: (860)509-7367 fax(860)509-7378
Telephone Device for the Deaf (860) 509-7191
410 Capitol Avenue - MS # 51-AIR
P.O. Box 340308 Hartford, CT 06134
An Equal Opportunity Employer

7. Use Of Facility:

A. School (K-12)
B. Public Building
C. Manufacturing
D. Office
E. College
F. Commercial
G. Church/Synagogue
H. Residential-Number Of Dwelling Units: ____
(I.) Other (Specify) US Army Reserve Center basement

Building Data: Ft.² 40,453 Number Of Floors 1+ Age 50 yrs (1953)

9. Abatement Classification:

(A.) Renovation
B. Demolition
C. Ordered Demolition-Agency Issuing Order: ____

10. Abatement Technique:

(A.) Full Containment With Negative Air
B. Alternative Work Practice (Pre-Approval Required)
C. Exterior Abatement

11. Abatement Method: (A.) Removal B. Encapsulation C. Enclosure

12. Type Of Decontamination System: (A.) Contiguous To Work Area (B.) Remote

13. Type And Amount Of Asbestos To Be Abated:

FRIABLE

A. Sprayed Or Troweled On ____ Ft.²
B. Boiler Insulation ____ Ft.²
C. Tank Insulation ____ Ft.²
D. Breeching Insulation ____ Ft.²
. Duct Insulation ____ Ft.²
. Ceiling Tiles ____ Ft.²
G. Other ____ Ft.²
(Specify) ____

NON-FRIABLE CATEGORY I

I. Floor Covering/Tiles ____ Ft.²
J. Roofing Material ____ Ft.²
(Specify) ____
K. Gaskets/Packings ____ Ft.²

NON-FRIABLE CATEGORY II

L. Transite Board ____ Ft.²
M. Other ____ Ft.²
(Specify) 961 SF wallboard adhesiv

H. Pipe Insulation ____ Total Linear Feet

Pipe Diameter	Linear Feet	X	CF*	=	Ft.² Of Pipe Insulation
____ In.	____ Ft.	X	____	=	____ Ft.²
____ In.	____ Ft.	X	____	=	____ Ft.²
____ In.	____ Ft.	X	____	=	____ Ft.²
____ In.	____ Ft.	X	____	=	____ Ft.²
____ In.	____ Ft.	X	____	=	____ Ft.²
					____ Total Ft.² Of Pipe Insulation

* See Notification Conversion Table For Conversion Factor (CF)

14. Waste Disposal Site Waste Management - Valley Landfill

Address Road #2 Pleasent Valley Road

City Irwin, State PA Zip 15642

Owner/Operator Telephone: (724) 744-7446

15. Hauler/Waste Transporter Waste Management Logano

Address P.O. Box 144

City Portland, State CT Zip 06480

Revision Date 02/25/97

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONTRACTOR

LICENSE NO.
000028
CURRENT THROUGH
09/30/03
VALIDATION NO.
02-727079

ASBEST-O-TECH, INC.

10391 WALLINGFORD PRINTING & BUSINESS FORMS CO., INC. 203-265-1433 WALLINGFORD, CT. 06492

WM N.E.E.T.
WASTE MANAGEMENT
New England Environmental Transport, Inc.
P.O. Box 144 • Portland, CT 06480
(860) 342-0667 • Fax: (860) 342-4866
Out of State 1-800-272-3867

E.P.A. AGENCY

CT, MA, RI, VT, NH, ME GENERATORS
EPA New England
1 Congress Street
Boston, MA 02114-2023
(617) 918-1111

NY GENERATORS
EPA Region 2
290 Broadway, 26th Floor
New York, NY 10007-1866
(212) 264-6770

99 7205

EMERGENCY RESPONSE TELEPHONE
#1-800-272-3867

TK#

ASBESTOS DISPOSAL & DOCUMENTATION FORM

Job Number A2553 P.O. # 206599
Contractor ASBEST-O-TECH, INC.
Address 355 Sackett Pt. Rd, #4
City North Haven State CT Zip 06473
Telephone Number 203-288-9552
Date Container Del. 12/10/02 Date of Pickup
Type of Container V269-106YO
VOLUME 2 **CY** Friable ☐ Non-Friable ☑
MUST BE IN CUBIC YARDS
Bag ☑ 29 Drum ☐ Wrapped ☐ Other ☐
RQ, ASBESTOS, 9, NA2212, PG III

GENERATOR/BUILDING OWNER
94th RSC, Attn: AFRC-CMA-EN-D (Crother
Address 11 Saratoga Blvd.
City AYER State MA Zip 01432-5216
Phone Number 978-796-2247

GENERATING LOCATION
U.S. ARMY RESERVE FIRING RANG
Address 200 Wintergreen
City New Haven, State CT Zip 06511
Phone Number 203-389-7908

I certify the above named material does not contain free liquid as defined by 40 CFR part 260.10 or any applicable state law, is not a hazardous waste as defi' 'by 40 CFR part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation acco .o NESHAP standards for asbestos waste disposal found in 40 CFR part 61.150.

Shipper's Certification: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations.

AUTHORIZED SIGNATURE Gerald J Hoffman

Transporter 1: _____
Name Address Telephone #
Driver: _____ Registration #: _____ Date: _____
Signature State / #
Acknowledgement of receipt of materials.

Transporter 2: Waste Management N.E.E.T., Inc., PO Box 144, Portland, CT 06480 1-800-272-3867
Driver: _____ Registration #: _____ Date: _____
Signature State / #
Acknowledgement of receipt of materials.

WASTE MANAGEMENT N.E.E.T., INC. • 203 PICKERING STREET • PORTLAND, CT 06480 • PHONE: (800) 272-3867 PERMIT # 1130559-PO

Transfer Date: _____ By: _____
Discrepancy: _____
Certification of transfer of materials covered by this manifest.

Transporter 3: _____
Name Address Telephone #
Driver: _____ Registration #: _____ Date: _____
Signature State / #
Acknowledgement of receipt of materials.

Landfill Name: _____ Phone No: _____
Location: _____ Permit #: _____

Asbest-O-Tech, Inc.
355 Sackett Point Road, Unit #4
North Haven, CT 06473
(T) (203) 234-7373 - (F) (203) 288-9565

DAILY PROJECT LOG

DATE: 01-27-03 JOB #: A-2553
PROJECT LOCATION: USAR - 200 Wintergreen N.H.
SUPERINTENDENT: Jerry Hoffman / Oscar Hernandez
(Please Print)

Fill in GENERAL comments on routine progress of this project (current date). DETAIL *major problems* and action taken, injuries, equipment breakdown, unusual conditions or situations, inspections, hiring or firing of personnel (any occurrences which may affect the project). This log may be utilized as a legal document.

7⁰⁰ - Meet @ shop, Equipment Loaded up.
7³⁰ - On site, Meet Contact Person (George Starkweather) view scope of work.
- Begin Prep work and pre-clean
8⁰⁰ - 1 Man setting up Neg. Air, Prep & Pre-Clean will not start till Negative pressure has been established
8³⁰ - Peter Folino (Eagle Environmental) on site. Reviews scope of work and Procedures
9⁰⁰ - Crew suits up, Respiratore protection, Begin prep and pre-clean
- 1 Man setting up De-Con
11⁵⁰ - Plastic Barrier @ Rear (Down Range) of work Area is Hanging, one side Left open to Transfer customers supplies out of work Area. ALL HVAC Locked out
12⁰⁰ - Crew Breaks For Lunch
12⁴⁵ - Crew continues prep. 1 Man Hanging Temp. Lights.
- O.H. Running power cords From Bathroom
1³⁰ - O.H. Shuts Down power to work Area.
- All Incoming power channeled through GFCI.
2⁰⁰ - HVAC System pre cleaned, Being critiqued.
3²⁰ - Work Area Being secured
3³⁰ - End of Day.

Asbest-O-Tech, Inc.
355 Sackett Point Road, Unit #4
North Haven, CT 06473
(T) (203) 234-7373 - (F) (203) 288-9565

DAILY PROJECT LOG

DATE: 01-28-03 JOB #: A-2553
PROJECT LOCATION: U.S.A.R. 200 Wintergreen
SUPERINTENDENT: Oscar Hernandez
(Please Print)

Fill in GENERAL comments on routine progress of this project (current date). DETAIL *major problems* and action taken, injuries, equipment breakdown, unusual conditions or situations, inspections, hiring or firing of personnel (any occurrences which may affect the project). This log may be utilized as a legal document.

7:30 - On site, unload supplies
7:50 - Crew enters work Area to continue prep.
- Personal Protection being worn.
10:00 - Prep work continues, crews start cleaning and covering floor
- De-Con Privacy Barrier set up.
12:00 - Crew Takes Break
12:40 - Prep continues
O.H. Dismantles Shooting Range Partitions Left + Right.
2:00 - 1 man Demo's Peg Board wall @ edge where it meets Panels to Be Dismantled
3:00 - Spoke w/ Peter Folino, schedule pre-visual for Tomorrow.
3:25 - Crew securing work Area
3:30 - End of Day

Asbest-O-Tech, Inc.
355 Sackett Point Road, Unit #4
North Haven, CT 06473
(T) (203) 234-7373 - (F) (203) 288-9565

DAILY PROJECT LOG

DATE: 01-29-03 JOB #: A-2553
PROJECT LOCATION: U.S.A.R. 200 Wintergreen N.H.
SUPERINTENDENT: Oscar Hernandez
(Please Print)

Fill in GENERAL comments on routine progress of this project (current date). DETAIL *major problems* and action taken, injuries, equipment breakdown, unusual conditions or situations, inspections, hiring or firing of personnel (any occurrences which may affect the project). This log may be utilized as a legal document.

7^00 - Pick up equipment @ Shop
7^45 - On site, Meet w/ I.H., Activate De-Con
8^00 - I.H. Does pre visual For Demo. Request additional layer OF Plastic on West Wall.
9^00 - Containment Passes pre-Visual Inspection
9^15 - Crew Takes Break
9^40 - Crew suited up to start Panel Demo.
9^50 - Demo started, Crew using Personal Protection
11^30 - Notified By Crew that ~~the~~ Pins Holding panels on wall Are Not present on North Wall, Crew Removing 12"X12" Test patch To see what is securing panels. Panel Difficult to Remove off wall
11^50 - Crew De-Cons For Lunch
- 95% of South wall Panels Removed and passed out OF WORK Area. 2 Panels ~~left~~ with Electrical Controls Left on Wall.
- One 12"X 12" Test ~~on west End of wall~~ patch cleaned off. It appears that Mortar was used to secure Panels on North Wall.
12^00 - Lunch
12^45 - Crew enters containment. Will clean OFF 2 more Test patch on North Wall in Center and at east End.
2^00 - 2 Men opened up 2 more Test patch. No Pins or Adhesive Found. only mortar. OSCAR notifies AOT office and I.H.
2^15 - Management (Jerry Hoffman AOT + Peter Folino Eagle Environmental) Decide to leave North wall. AOT will Cover with 2 layers of Plastic.

Asbest-O-Tech, Inc.
355 Sackett Point Road, Unit #4
North Haven, CT 06473
(T) (203) 234-7373 - (F) (203) 288-9565

DAILY PROJECT LOG

DATE: 01-29-03 JOB #: A-2553
PROJECT LOCATION: U.S.A.R. 200 Wintergreen · N.H.
SUPERINTENDENT: Oscar Hernandez
(Please Print)

Fill in GENERAL comments on routine progress of this project (current date). DETAIL *major problems* and action taken, injuries, equipment breakdown, unusual conditions or situations, inspections, hiring or firing of personnel (any occurrences which may affect the project). This log may be utilized as a legal document.

2^15 - Crew Begins set up of Plastic on North Wall.
3^20 - Crew Securing work Area, Will continue covering North Wall and Sealing West Wall Tomorrow.
3^30 - End of DAY

3 Men @ 4 HRS on North Wall Exploratory and set up of Plastic Barrick 42' X 8'

Asbest-O-Tech, Inc.
355 Sackett Point Road, Unit #4
North Haven, CT 06473
(T) (203) 234-7373 - (F) (203) 288-9565

DAILY PROJECT LOG

DATE: 1-30-03 JOB #: A- 2553
PROJECT LOCATION: US Army 200 Wintergreen N Haven
SUPERINTENDENT: Jerry Hoffman / Oscar Hernandez
(Please Print)

Fill in GENERAL comments on routine progress of this project (current date). DETAIL *major problems* and action taken, injuries, equipment breakdown, unusual conditions or situations, inspections, hiring or firing of personnel (any occurrences which may affect the project). This log may be utilized as a legal document.

0800 - I Arrived on site 3 men waiting. Suiting up to Check progress 3 men in To finish prep one North wall that There isn't Any blue dubs under. Oscar on his way with micro trap and Air Compressor.
0930 - Rear wall all setup Jerry Hunt in to inspect. Crew coming out for Break all unnessecery equipm coming out now. Oscar arrive onsite wit Equipment.
1000 - Crew enters containment, Glue Dob Removal started. J. Lopez wearing personal Sample
10^50 - Crew completes 1 8 foot section, Gross Removal Should Take 5 HRS.
- one man working on Area # 2 Prep In corridor.
11^50 - Crew De-Cons For Lunch
- 40% OF wall Abated.
- Micro Trap Filters Changed.
12^00 - Lunch
12^45 - Crew continues Abatement
2^00 - Area #2 Staging Area Built in plastic and Chamber Attached. Setting up Micro Trap
3^00 - Gross Removal completed, crew cleaning work Area
3^20 - Crew De-Cons out
3^30 - Work Area secured, End of Day

Asbest-O-Tech, Inc.
355 Sackett Point Road, Unit #4
North Haven, CT 06473
(T) (203) 234-7373 - (F) (203) 288-9565

DAILY PROJECT LOG

DATE: 01-31-03 JOB #: A-2553
PROJECT LOCATION: U.S.A.R. 200 Wintergreen · New HAVEN
SUPERINTENDENT: Oscar Hernandez
(Please Print)

Fill in GENERAL comments on routine progress of this project (current date). DETAIL *major problems* and action taken, injuries, equipment breakdown, unusual conditions or situations, inspections, hiring or firing of personnel (any occurrences which may affect the project). This log may be utilized as a legal document.

7:30 - Onsite, Activate De-Con, Crew suits up to Final Clean work Area
8:00 - Decon Tools and Equipment
8:30 - Notified By Seargent Teromee White 439th that They will be Having Drills this weekend and other Activities And that we must clear this Hallway.
• O.H. Notifies Office (Jerry Hoffman).
• A.O.T. Hopes to Have containment Cleared so that we can store All Equipment in Shooting Range. Will Try to keep De-Con intact For work Area #2.
9:30 - Bag out Equipment and 9 Bags
- I.H. suits up For Final visual
9:50 - Containment Passes Final visual, Encapsulation started
10:10 - Encapsulation Completed, Crew De-Cons out.
10:30 - I.H. Starts Air Test
- Crew Transfers waste to VAH
- Setting up Work Area #2
11:00 - Crew Takes Lunch
12:00 - Air Test completed
- Crew suits up to start prep in Area #2
12:30 - Prep work started
12:45 - Area #1 Passed Air Test.
Begin Clean up of De Con Area
1:00 - DeCon Moved to Area #2
- 1 Man working on clearing out Hallway For Weekend Activities
1:30 - I.H. ~~clears~~ Authorizes Demo, All Plastic set up.
- Crew Bags Demo waste in clear Bags to be Transfered to shooting Range

Asbest-O-Tech, Inc.
355 Sackett Point Road, Unit #4
North Haven, CT 06473
(T) (203) 234-7373 - (F) (203) 288-9565

DAILY PROJECT LOG

DATE: 2-3-03 Mon. JOB #: A-2353
PROJECT LOCATION: U.S.A.R. 200 Winter green N. Haven
SUPERINTENDENT: Jerry Hoffman
(Please Print)

Fill in GENERAL comments on routine progress of this project (current date). DETAIL *major problems* and action taken, injuries, equipment breakdown, unusual conditions or situations, inspections, hiring or firing of personnel (any occurrences which may affect the project). This log may be utilized as a legal document.

0730 Arrived on site w/2 men. Jerry from Eagle also on site. Opened up. Hook up Decon and micro trap running.
800 Aurelio and Cheo in to continue remo. panels.
915 Start moving bags with panels in to Storage Area.
1000 All panels out of containment men cleaning out bottom grove of sheild.
1030 I ran to office for some equipment to be finish up Area #2. men out to lunc
1030 I'm back on site. men start tear down of area #1 Suited them up to compl
Final clean of area #2.
1400 They said Area #2 is complete I suited up for visual Jerry Hurt also coming in fo. Final visual.
1430 Area Okay for Encapsulation.
1510 Starting Encapsulation.
1530 Encapsulation complete last man out Area secure for night
1540 left site for end of day.

Steve Pasanti

Asbest-O-Tech, Inc.
355 Sackett Point Road, Unit #4
North Haven, CT 06473
(T) (203) 234-7373 - (F) (203) 288-9565

42'x 8' wall

DAILY PROJECT LOG

DATE: 2-4-03 Tues JOB #: A-2553
PROJECT LOCATION: US ARC 200 Winter Green Ave
SUPERINTENDENT: J. Hoffman
(Please Print)

Fill in GENERAL comments on routine progress of this project (current date). DETAIL *major problems* and action taken, injuries, equipment breakdown, unusual conditions or situations, inspections, hiring or firing of personnel (any occurrences which may affect the project). This log may be utilized as a legal document.

0745 I arrived on site Jerry Hunt on site and making ready to start final air clearance on area # 2. I am moving materials and Equipment out of Area # 1 we will tear down after Clearance of Area # 2.
810 Final clearance running on Area # 2. I took crew to dumpster to move waste.
1115 Jerry called with final results Area # 2 Passed
1130 we arrived back on site start tear down
1300 Areas torn down loading van and re-locked
1400 All secure left site. I notified George Stark weather and Bill Scoville of Shaws that we were complete I turned in Keys into Steve Pasanti.

Asbest-O-Tech, Inc.
355 Sackett Point Road, Unit #4
North Haven, CT 06473
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JOB SIGN IN / OUT & VISITORS LOG

A-2

DATE: 01-27-03 Mon.
PROJECT: U.S.A.R. - 200 Wintergreen New HAVEN

All personnel MUST sign in or out EVERY time they enter/exit the work area.

PROJECT #: A-2553

PLEASE SIGN CLEARLY

NAME	EMPLOYER	TIME IN / OUT		REASON
Jerry	Hoffman	7 30	10 30	
Oscar	Hernandez	7 30	3 30	
Aurelio	Rivera	7 30	3 30	
Jorge	Lopez	7 30	3 30	
Cheo	Sarmiento	7 30	3 30	
Peter Folino	(Eagle Environmental)	8 30	11 00	
	01-28-03	Tues		
Oscar	Hernandez	7 30	3 30	
Aurelio	Rivera	7 30	3 30	
Jorge	Lopez	7 30	2 00	
Cheo	Sarmiento	7 30	3 30	
	01-29-03	Wed		
Oscar	Hernandez	8 00	3 30	
Jorge	Lopez	8 00	3 30	
Cheo	Sarmiento	8 00	3 30	
Jerry	Hunt			
Ivan	Sokolov			

Asbest-O-Tech, Inc.
355 Sackett Point Road, Unit #4
North Haven, CT 06473
(T) (203) 234-7373 - (F) (203) 288-9565

JOB SIGN IN / OUT & VISITORS LOG

DATE: 1-30-03 Thur.
PROJECT: U.S. A.R. 200 Wintergreen New HAVEN

All personnel MUST sign in or out EVERY time they enter/exit the work area.

PROJECT #: A-2553

PLEASE SIGN CLEARLY

NAME	EMPLOYER	TIME IN	TIME OUT	REASON
Jerry Hoffman		800	10 30	
Jorge Lopez		800	3 30	
Cheo Sarimenta		800	3 30	
Aurelio Rivera		800	3 30	
Oscar Hernandez		800	3 30	
Jerry Hunt				
1-31-03	Fri			
OSCAR	Hernandez	7 30	3 30	
Aurelio	Rivera	7 30	3 30	
Jorge	Lopez	7 30	3 30	
Cheo	Sarmiento	7 30	3 30	
2-3-03	Mon.			
Jerry Hoffman		730	1640	
Aurelio Rivera		230	1540	
Cheo Sarimento		730	1540	
2-4-03				
Jerry Hoffman		730	930	

Asbest-O-Tech, Inc.
355 Sackett Point Road, Unit #4
North Haven, CT 06473
(T) (203) 234-7373 - (Fax) (203) 288-9565

CONTAINMENT SIGN IN / OUT LOG - Set up

PROJECT: USAR 200 Wintergreen New HAVEN
LOCATION: Firing Range Basement
JOB #: A-2553
DATE: 01-27-03

Area #1

EMPLOYEE NAME	IN	OUT	IN	OUT	IN	OUT	IN	OUT
Jorge Lopez	900	1150	1245	325				
Aurelio Rivera	900	1150	1245	325				
Cheo Sarmiento	900	1150	1245	325				
Oscar Hernandez	920	950	100	125	220	325		
01-28-03								
Jorge Lopez	750	1150	1245	200				
Aurelio Rivera	750	1150	1245	325				
Cheo Sarmiento	750	1150	1245	325				
Oscar Hernandez	830	450	130	230				
1-29-03								
Jorge Lopez	450							
~~Aurelio~~								
Cheo Sarmiento	950							
Oscar Hernandez	955	1045						
Jerry Hunt	10:15	10:40	12:25 ~~[illegible]~~	13:40				
Ivan Sokolov	11:50am							
1-30-03	Thur.							
Cheo Sarmiento	810	905	~~[illegible]~~					
Aurelio Rivera	810	905	944	1150	12:45			
Jorge Lopez	810	905	945	1150	12:45			
Jerry Hoffman	805	815						
Jerry Hunt			10:15	10:30	11:55	12:00	14:55	15:00
1-31-03	Friday							
Cheo Sarmiento	740	930						
Aurelio Rivera	740	1010						
Oscar Hernandez	830	940						
Jerry Hunt	7:40	7:55	9:35	9:49	10:20	10:45	11:55	12:05
Jorge Lopez	740	1010						

Asbest-O-Tech, Inc.
355 Sackett Point Road, Unit #4
North Haven, CT 06473
(T) (203) 234-7373 - (Fax) (203) 288-9565

CONTAINMENT SIGN IN / OUT LOG

PROJECT: U.S.A.R. 200 Wintergreen N.H. JOB #: A-2553
LOCATION: Area # 2 Behind Deflector DATE: 01/31/03
Area # 2.

EMPLOYEE NAME	IN	OUT	IN	OUT	IN	OUT	IN	OUT
Jorge Lopez	12 30	1500						
Chec Sarmiento	12 30	1500						
2-3-03								
Chec Sarmiento	800	1130	1230					
Aurelio Rivera	800	1130	1230					
Jerry Hoffman			1400	1425				
Jerry Hunt	10:40	10:55	1405	14:19				
2-4-03								
Jerry Hunt	8:00	8:15	9:20	9:30				

Name ASBESTOS	Social Security No.	Medical Expiration	Fit Test Expiration	CT License #	License Expiration	Worker (W) Supervisor (S)	Original Training Cert Expiration	Latest Refresher Expiration
1 JERRY HOFFMAN	077-54-2729	05.23.03	07-14-03	000321	02-28-03	SUPERVISOR	5.5.88 W.C	5.31.03
2 OSCAR HERNANDEZ	043-56-4724	08.30.03	07.12.03	000944	01-31-03	SUPERVISOR	7.29.88 W.C	11.9.03
3 JORGE LOPEZ	047-96-1633 ~~432-87-7845~~	5-9-03 ~~10-25-03~~	5-8-03 ~~06-3-03~~	000085 ~~001724~~	1-31-03. [redacted]	WORKER	4-4-01	3-30-03 1.19.03
4 AURELIO RIVERA	047-02-6139	8.19.03	7.16.03	003093 ~~003091~~	04.30.03 ~~12.31.03~~	WORKER	OK ~~7.22~~ 02 C	6.22.03 ~~6.22.03~~
5 CHEO SARMIENTO	092-04-2610	7.22.03	7.18.03	003091	12.31.03	WORKER	7.22.02 C	6 22.03
6								
7								
8								
9 LEAD	LEAD AWARENESS Training							
10 JERRY HOFFMAN	O.K.							
11 OSCAR HERNANDEZ	O.K.							
12 JORGE LOPEZ	O.K.							
13 AURELIO RIVERA	O.K.							
14 CHEO SARMIENTO	O.K.							
15								
16								

P:\Admin\Forms2000\WORKER.WPD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A

ASBESTOS ABATEMENT SUPERVISOR

CERTIFICATION NO.
000321
CURRENT THROUGH
02/29/04
VALIDATION NO.
03-793753

GERALD HOFFMAN

SIGNATURE

COMMISSIONER, DEPT. OF PUBLIC HEALTH

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
GERALD HOFFMAN

VALIDATION NO.
03-793753

CERTIFICATION NO.
000321

CURRENT THROUGH
02/29/04

PROFESSION
ASBESTOS ABATEMENT SUPERVISOR

SIGNATURE

COMMISSIONER, DEPT. OF PUBLIC HEALTH

CERT# A-103S - 396

CHEMSCOPE TRAINING DIVISION

ASBESTOS CONTRACTOR/SUPERVISOR REFRESHER

8 HOUR TRAINING CERTIFICATE

Gerald Hoffman

355 Sackett Point Road, #4 , North Haven CT

077-54-2729

Has attended an 8 hour annual refresher course on the subject discipline on

5/31/02 and has passed a written examination.

"The person receiving this certificate has completed the requisite training required for asbestos accreditation as a supervisor under TSCA Title II"

Course topics include a review and update on asbestos health hazards, personal protection, emission control measures, government regulations, planning work areas, removal practices and procedures and air monitoring.

Examination Date: 5/31/02

Expiration Date: 5/31/03

This training course has been accredited by the State of Connecticut.

Ronald D. Arena
Director

CHEMSCOPE, INC.
15 Moulthrop Street
North Haven Ct 06473
(203) 865-5605

© GOES 340

CHEMSCOPE TRAINING DIVISION
ASBESTOS CONTRACTOR/SUPERVISOR REFRESHER

8 Hours Training Course

Name: Gerald Hoffman
SS#: 077-54-2729
Expiration Date: 5/31/03
DIRECTOR Cert#: A-103S-396

Superior Industries LLC

SUPERIOR INDUSTRIES L.L.C.

Committed to a Clean Environment

Certificate of Completion

Awarded to

Gerald L. Hoffman

(SSN 077-54-2729) (DOB 2-05-58)

Has completed an 8 Hour Approved Course of Instruction in Asbestos Abatement Removal and Disposal (AARD)

Supervisor Refresher Training

July 28, 2001

Required by OSHA and the EPA Revised MAP for accreditation under the TSCA Title 11 as self-certified by Trainer 8/5/97

Required by Connecticut Regulations 19a-332-21

SUPERIOR INDUSTRIES LLC
342 Carter Lane
Southington, Ct. 06489
860-620-1133 (voice)
860-260-1134 (fax)

Examination Date: July 28, 2001
Expiration Date: July 28, 2002
Certificate Number: 077-54-2729-02

Earl R. Clark, Training Director

Superior Industries LLC

SUPERIOR INDUSTRIES L.L.C.

Committed to a Clean Environment

Certificate of Completion

Awarded to

Gerald Hoffman

(SSN 077-54-2729) (DOB 2-05-58)

Has completed an 8 Hour Approved Course of Instruction in
Asbestos Abatement Removal and Disposal (AARD)

Supervisor Refresher Training

August 5,2000

Required by OSHA and the EPA Revised MAP for accreditation under
the TSCA Title 11 as self-certified by Trainer 8/5/97
Required by Connecticut Regulations 19a-332-21

SUPERIOR INDUSTRIES LLC
290 Beach Road
Wolcott, CT. 06716
203-879-5531 (voice)
860-260-1134 (fax)

Examination Date: **August 5, 2000**
Expiration Date: **August 5, 2001**
Certificate Number: **077-54-2729-01**

Earl R. Clark, Training Director

Superior Industries LLC

SUPERIOR INDUSTRIES L.L.C.

Committed to a Clean Environment

Certificate of Completion

Awarded to

Gerald Hoffman

(SSN 077-54-2729) (DOB 2-05-58)

Has completed an 8 Hour Approved Course of Instruction in
Asbestos Abatement Removal and Disposal (AARD)

Supervisor Refresher Training

August 7, 1999

Required by OSHA and the EPA Revised MAP for accreditation under
the TSCA Title 11 as self-certified by Trainer 8/5/97
Required by Connecticut Regulations 19a-332-21

SUPERIOR INDUSTRIES LLC
290 Beach Road
Wolcott, CT. 06716
203-879-5531 (voice)
860-260-1134 (fax)

Examination Date: **August 7, 1999**
Expiration Date: **August 7, 2000**
Certificate Number: **077-54-2729**

Earl R. Clark, Training Director

CERT# A-509 - 14

CHEMSCOPE TRAINING DIVISION

ASBESTOS INSPECTOR REFRESHER

8 HOUR TRAINING CERTIFICATE

Gerald Hoffman

7 Corporate Drive-Unit 106 , North Haven CT

077-54-2729

Has attended an 8 hour annual refresher course on the subject discipline on

3/16/99 and has passed a written examination.

"The person receiving this certificate has completed the requisite training required for asbestos accreditation as an inspector under TSCA Title II"

Course topics include a review and update on asbestos health hazards, functions of inspectors and management planners, building systems, planning, inspecting for asbestos, sampling and analysis, respiratory protection, government regulations and preparing the inspection report.

Examination Date: 3/16/99

Expiration Date: 3/16/00

Ronald D. Arena
Training Director

CHEMSCOPE, INC.
15 Moulthrop Street
North Haven Ct 06473
(203) 865-5605

Superior Industries LLC

SUPERIOR INDUSTRIES L.L.C.

Committed to a Clean Environment

Certificate of Completion

Awarded to

Gerald Hoffman

(SSN 077-54-2729) (DOB 2-05-58)

Has completed an 8 Hour Approved Course of Instruction in
Asbestos Abatement Removal and Disposal (AARD)

Supervisor Refresher Training

August 15, 1998

Required by OSHA and the EPA Revised MAP for accreditation under
the TSCA Title 11 as self-certified by Trainer 8/5/97
Required by Connecticut Regulations 19a-332-21

SUPERIOR INDUSTRIES LLC
290 Beach Road
Wolcott, CT. 06716
203-879-5531 (voice)
860-260-1134 (fax)

Examination Date: August 15, 1998
Expiration Date: August 15, 1999
Certificate Number: 077-54-2729

Earl R. Clark, Training Director

40 - HOUR HAZARDOUS WASTE TRAINING COURSE

Name: Gerald Hoffman
S.S#: 077-54-2729
Certificate #: 077542729HAZH0996
Date Completed: 10-03-95
Refresher Date: 10-03-96

This certificate satisfies requirements of training as required by OSHA 29 CFR 1910.120.

LABORERS-AGC EDUCATION AND TRAINING FUND

37 Deerfield Road
P.O. Box 37
Pomfret Center, CT 06259

HAZARDOUS WASTE WORKER REFRESHER TRAINING COURSE

Name: Gerald Hoffman
S.S.#: 077-54-2729
Date Completed: 10-03-94
Refresher Date: 9-13-95
Expiration Date: 9-13-96
Certificate Number: 077542729HAZH0995

LABORERS-AGC EDUCATION AND TRAINING FUND

37 Deerfield Road
P.O. Box 37
Pomfret Center, CT 06259

EnviroMed Services, Inc.

Certificate of Attendance

Gerald L. Hoffman

has attended a training seminar in accordance with the 29 CFR 1910.146, OSHA's Standard for Entry into Confined Spaces.

9/18/95
Course Date

[illegible]
Certificate Number

9/18/95
Expiration Date

Training Coordinator
EnviroMed Services, Inc.

ENVIROMED SERVICES, INC.

Training Course Attended

Gerald L. Hoffman
Name

077-54-2729
Social Security Number

OSHA Confined Space Entry Course

Course Name: 9/18/95
Course Date: 9/18/95
Expiration Date: 9/18/96
Certificate Number: 17291Con-01
Instructor Signature: C.S.H.

ASBESTOS ABATEMENT
SUPERVISOR REFRESHER

Name/Certificate #	
Gerald Hoffman 077542729ASBSR0896	
Course Date	Exam Date
08-30-96	083096
	083097

NEW ENGLAND LABORERS'
TRAINING TRUST FUND
P.O. Box 77
Pomfret Center, CT 06259
(203) 974-1455

The individual named has completed the requisite training for asbestos accreditation under TSCA Title II

John LaConcho, Administrator

ASBESTOS ABATEMENT
SUPERVISOR REFRESHER

Name/Certificate #	
Gerald Hoffman 077542729ASBSR0897	
Course Date	Exam Date
08-08-97	080897
Expires	
	080898

NEW ENGLAND LABORERS'
TRAINING TRUST FUND
P.O. Box 77
Pomfret Center, CT 06259
(203) 974-1455

The individual named has completed the requisite training for asbestos accreditation under TSCA Title II

John LaConcho, Administrator

CHEM SCOPE TRAINING DIVISION
ASBESTOS INSPECTOR
34 HOUR INITIAL TRAINING COURSE

Name: Gerald L. Hoffman
SS#: 077-54-2729
Expiration Date: 12/17/98

DIRECTOR Cert#: A-607-690

32 HOUR TRAINING PROGRAM for WORKERS

New England Laborers' Training Trust Fund
Route 97 & Murdock Rd. - P.O. Box 77
Pomfret Center, CT 06259

Gennaro S. Lepore
Administrator

Name: Gerald Hoffman
SS#: 077-54-2729

Issued	Expires
3/5/88	3/5/89
Test Grade: 100%	Certificate #: 0618

Route 97 & Murdock Rd. - P.O. Box 77
Pomfret Center, CT 06259

Gennaro S. Lepore
Administrator

ABATEMENT TECHNIQUES
8-HOUR REVIEW COURSE for W

Name: Gerald Hoffman
SS#: 077-54-272

4/6/89	Exp
Test Grade: 96%	Cer C-

MYSTIC AIR QUALITY CONSULTANTS, INC.
1081 Boddington Road • Groton, Connecticut 06340

Principles and Practices
of Asbestos Abatement
for
Site Supervisors

August 11, 1989

HEALTH, SAFETY & ASBESTOS
ABATEMENT TECHNIQUES
8-HOUR REVIEW COURSE for WORKERS

Name: Gerald Hoffman
SS#: 077-54-2729

Issued	Expires
03/30/90	03/30/91
Test Grade: 96%	Certificate #: C-06185

New England Laborers' Training Trust Fund
Route 97 & Murdock Rd. - P.O. Box 77
Pomfret Center, CT 06259

HEALTH, SAFETY & ASBESTOS
ABATEMENT TECHNIQUES
8-HOUR REVIEW COURSE for FOREMAN/SUPERVISOR

Name: Gerald Hoffman
SS#: 077-54-2729

Issued	Expires
10/31/90	10/31/91
Test Grade: 100%	Certificate #: C-6185R

New England Laborers' Training Trust Fund
Route 97 & Murdock Rd. - P.O. Box 77
Pomfret Center, CT 06259

Gennaro S. Lepore
Administrator

HEALTH, SAFETY & ASBESTOS
ABATEMENT TECHNIQUES
8-HOUR REVIEW COURSE for FOREMAN/SUPERVISOR

Name: Gerald Hoffman
SS#: 077-54-2729

Issued	Expires
11/01/91	11/01/92
Test Grade: 94%	Certificate #: C-6185R

New England Laborers' Training Trust
Route 97 & Murdock Rd. - P.O. Box
Pomfret Center, CT 06259

Gennaro S. Lepore
Administrator

HEALTH, SAFETY & ASBESTOS
ABATEMENT TECHNIQUES
8-HOUR REVIEW COURSE for FOREMAN/SUPERVISOR

Name: Gerald Hoffman
SS#: 077-54-2729

Issued	Expires
9-3-92	9-3-93
Test Grade: 94%	Certificate #: C-618SR

New England Laborers' Training Trust Fund
Route 97 & Murdock Rd. - P.O. Box 77
Pomfret Center, CT 06259

Gennaro S. Lepore
Administrator

HEALTH, SAFETY & ASBESTOS
ABATEMENT TECHNIQUES
8-HOUR REVIEW COURSE for FOREMAN/SUPERVISOR

Name: GERALD HOFFMAN
SS#: 077-54-2729

Issued	Expires
7-9-93	7-9-94
Test Grade: 96%	Certificate #: C-6185R

New England Laborers' Training Tru
Route 97 & Murdock Rd. - P.O. B
Pomfret Center, CT 06259

Gennaro S. Lepore
Administrator

New England Laborers' Training Trust Fund
Route 97 & Murdock Rd. - P.O. Box 77
Pomfret Center, CT 06259

Gennaro S. Lepore
Administrator

HEALTH, SAFETY & ASBESTOS
ABATEMENT TECHNIQUES
8-HOUR REVIEW COURSE for FOREMAN/SUPERVISOR

Name: Gerald Hoffman
SS#: 077-54-2729

Issued	Expires
2-17-94	2-17-95
Test Grade: 94%	Certificate #: C-618SR

ASBESTOS ABATEMENT
SUPERVISOR COURSE

Name/Certificate #
Gerald Hoffman
077542729ASBS0994

Course Date	Exam Date
08-29-94 09-02-94	090294
Expires	090295

Gennaro S. Lepore
Administrator
NEW ENGLAND LABORERS' TRAINING TRUST FUND
P.O. Box 77
Pomfret Center, CT 06259
(203) 974-1455

ASBESTOS ABATEMENT
SUPERVISOR REFRESHER

Name/Certificate #
Gerald Hoffman
077542729ASBSR0995

Course Date	Exam Date
09-01-95	090195
Expires	090196

NEW ENGLAND LABORERS' TRAINING TRUST FUND
P.O. Box 77
Pomfret Center, CT 06259
(203) 974-1455

CBRT# LS-100 - 163

CHEMSCOPE TRAINING DIVISION

STATEMENT OF COMPLETION

This is to state that

Gerald Hoffman

Has successfully completed the
State of Connecticut's
HUD-approved training in

**LEAD-SAFE WORK PRACTICES FOR
PAINTING, REMODELING, AND MAINTENANCE**

EXAMINATION DATE: 01/21/03
EXPIRATION DATE: N/A

Ronald D. Arena
Training Director

CHEM SCOPE, INC.
15 Moulthrop Street
North Haven, CT 06473
(203) 865-5605

CtOHN

Administration
127 Washington Ave.
North Haven, CT
06473
877 384-7768
Medical Management
877 666-5345

Eastern Occupational Health Centers

1064 East Main St.
Meriden, CT 06450
203-237-2044
FAX 203-237-4066

127 Washington Ave.
North Haven, CT
06473
203-239-0468
FAX 203-234-0164

9 Research Dr.
Milford, CT 06460
203-882-5110
FAX 203-882-5124

333 Kennedy Drive,
Suite 202
Torrington, CT 06790
860 482-4552
Fax 860 489-4647

Hartford Medical Group

1260 Silas Deane Hwy
Wethersfield, CT
06109
860-571-7253

1060 Day Hill Road
Windsor, CT 06095
860-688-8383

265 Ellington Rd
East Hartford, CT
06108
860-569-1100

263 West Middle Turnpike
Manchester, CT 06040
860-646-8595

2531 Albany Avenue
West Hartford, CT
06117
860-232-4891

923 South Quaker La
Timwood, CT 06110
860-236-5908

Hopmeadow Road
Avon, CT 06001
860 284-5111

Connecticut Occupational Health Network
FORM #9: EMPLOYER ASBESTOS MEDICAL SURVEILLANCE EXAM REPORT CLEARANCE LETTER

Name: Gerald Hoffman SSN: 077-54-2729 Exam date: 5/23/02
Employer Contact _____ Employer Telephone: ___-___-____
Employer: Asbesto-Tech
Employer Address: _____

Report status: ☒ Final report ☐ Preliminary report

This letter confirms that the above individual was examined in compliance with the OSHA asbestos standard (CFR 1910.1001 and 1926.58). The required asbestos questionnaire, a medical and work history, and a physical examination were performed. The following tests were administered.

☐ CHEST X-RAY, ☐ "B" READING RESULT: ☐ Normal / ☐ Abnormal
Should have repeat chest x-ray in ___ years. OSHA recommendations are:

Years since first exposure	Age 15-35	35+-45	45+
0-10	Every 5 years	Every 5 years	Every 5 years
10+	Every 5 years	Every 2 years	Every 1 year

☒ PULMONARY FUNCTION TEST RESULT: ☒ Normal / ☐ Abnormal

COMMENTS: ☐ None ☐ Findings: _____

The following conditions were identified which may place this employee at increased risk of health impairment from asbestos exposure: ☐ None

☐ Smoker. This patient was cautioned regarding the increased risk of lung cancer when asbestos exposure and cigarette smoking are combined. The benefits of smoking cessation, smoking cessation programs and options were discussed.

☐ Other: _____

The following limitations on personal protective equipment, including respirators, are indicated:

☒ None: The patient is medically qualified to wear all personal protective equipment.

☐ Patient limitations: _____

The employee has been informed of the results of the medical examination, both with regard to occupational and general medical conditions. In accordance with the Standard, findings and diagnoses unrelated to asbestos exposure may not be communicated to the employer. Also, in accordance with the Standard, a copy of this opinion is being forwarded to the employee.

NAUMAN J. MUFTI, MD
Occupational Health Care Practitioner

Signature

Date _____

cc Employee

Connecticut Occupational Health Network

FORM #8: MEDICAL SURVEILLANCE REPORT FOR RESPIRATOR USE IN ACCORDANCE WITH 29 CFR 1910.134 OSHA RESPIRATORY PROTECTION STANDARD: EMPLOYER COPY

HN

Administration
127 Washington Ave.
North Haven, CT
06473
877 384-7768
Medical Management
877 666-5345

Eastern Occupational Health Centers

1064 East Main St.
Meriden, CT 06450
203-237-2044
FAX 203-237-4066

127 Washington Ave.
North Haven, CT
06473
203-239-0468
FAX 203-234-0164

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Milford, CT 06460
203-882-5110
FAX 203-882-5124

333 Kennedy Drive,
Suite 202
ington, CT 06790
482-4552
860 489-4647

Hartford Medical Group

1260 Silas Deane Hwy
Wethersfield, CT
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860-571-7253

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Windsor, CT 06095
860-688-8383

265 Ellington Rd
East Hartford, CT
06108
860-569-1100

263 West Middle Turnpike
Manchester, CT 06040
860-646-8595

2531 Albany Avenue
West Hartford, CT
06117
860-232-4891

923 South Quaker La
wood, CT 06110
36-5908

Hopmeadow Road
Avon, CT 06001
860 284-5111

Name: Gerald Hoffman SSN: 077-54-2729 Exam date: 5/23/02
Employer Contact _____ Employer Telephone: ___-___-____
Employer: Asbesto Tech
Employer Address: _____
Report status: ☒ Final report ☐ Preliminary report

A medical surveillance review was conducted consisting of the following:

☐ review of the mandated medical questionnaire completed by this employee
☒ physical examination, ☐ additional testing: _____
☒ spirometry, ☐ chest x-ray, ☐ B-reader, ☐ EKG

Based on this review and additional information regarding the Respiratory Protection Program and respirator use supplied by the employer, I conclude:

✓ There are no limitations on respirator use for this individual once they have been properly fitted and trained.

_____ This individual has vision impairment. Corrective insert lenses may be required if they are assigned to use of a full face respirator.

_____ Must shave for proper fit of negative pressure respirator

_____ Individual advised that cigarettes increase the risk of lung diseases and cancer and may compound the risks of exposure to asbestos, arsenic, cadmium and other toxic substances. Advise smoking cessation.

_____ A baseline respiratory examination is recommended to clarify issues from the review of the mandated medical questionnaire . Please call our office to schedule this.

_____ This employee is not medically suitable to use respiratory protective equipment at this time.

_____ We recommend re-evaluation for respirator use as indicated below or as otherwise indicated under 29 CFR 1910.134.

☐ 1 year (Commonly for follow-up of baseline condition, hazmat or emergency responder team members, wearers of SCBA, IDLH atmosphere, age over 45 years)
☐ 2 years (Commonly for age 35-45 years)
☐ 3 years (Commonly for individuals age less than 35 years)

_____ Individual is advised of a medical condition that may warrant further evaluation or monitoring.

_____ Referred to personal physician for nonoccupational medical condition

Comments:

_____

_____

The above individual has been informed of the results of this exam and potential health effects of pertinent exposure(s), and has been supplied with a copy of these written opinions. The entire examination will be maintained by us as a confidential medical record in accordance with regulatory statutes.

NAUMAN J. MUFTI, MD
Occupational Health Care Practitioner Signature
Date 5/23/02
cc: Employee

Connecticut Occupational Health Network

CtOHN

Administration
127 Washington Ave.
North Haven, CT
06473
877 384-7768
Medical Management
877 666-5345

Eastern Occupational Health Centers

1064 East Main St.
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06117
860-232-4891

923 South Quaker La
Elmwood, CT 06110
860-236-5908

..opmeadow Road
Avon, CT 06001
860 284-5111

FORM # 10: EMPLOYEE ASBESTOS MEDICAL SURVEILLANCE EXAM REPORT NOTIFICATION LETTER

Name: Gerald Hoffman SSN: 077-54-2729 Exam date: 5/23/02

This letter is a written report regarding the results of your asbestos surveillance examination as required by the OSHA Standard (29.CFR 1910.1001 and 1926.58).

Enclosed is a copy of the letter sent to your employer, which you are required to receive. Please note any medical conditions or personal protective equipment and restrictions which may be indicated on this letter. Although asbestos is a hazardous substance, individual risk may be adequately controlled by meticulous observation of safe work practices. Careful use of protective equipment and proper techniques are essential to safeguarding your health. It is important to note that this type of examination does not substitute for ongoing care by your personal physician. Additional aspects of routine health care should be discussed with your own physician.

Non-work related medical findings which warrant follow up: None

Recommendations:

___ Smoking greatly increases the risk of disease from asbestos exposure. Quitting smoking has been shown to greatly reduce the risk of most lung cancers and smoking related diseases. There are many smoking cessation programs available in local communities sponsored by hospitals, or the local heart or lung association. Contact these agencies for information. Many smoking cessation products (eg: the nicotine patch) can be purchased at a pharmacy without a prescription. If these do not work, prescription medications are available through your primary care provider that have assisted many people through the "quit the habit" process.

Sincerely,

NIRUMAN J. MUFTI
Occupational Health Care Practitioner
Date 5/23/02

Signature

Enclosure: Employer letter

RESPIRATOR FIT TEST

DATE: 7/14/02

EMPLOYEE NAME: Gerald Hoffman

SOCIAL SECURITY # 077-54-2729

FIT TEST: PASS ✓ 3M Full face / Glenaire ½ Face

FAIL _____ REASON: _____

NAME OF PERSON CONDUCTING FIT TEST: [signature]

I have read and fully understand the respiratory protection program manual. I have also received a fit test using the procedures in Appendix A of the manual.

EMPLOYEE SIGNATURE [signature]

MOBILE EQUIPMENT

OPERATOR CERTIFICATION

THIS CARD CERTIFIES THAT

GERALD HOFFMAN

has successfully fulfilled all the theoretical and practical training and evaluation requirements listed in federal and regional regulations and is hereby authorized to operate the equipment listed on the reverse in the following work area (or application)

OPERATOR SIGNATURE

7243 - 150RT

DEAN McGREGER

INSTRUCTOR SIGNATURE

ASBEST-O_TECH, INC.

EMPLOYER SIGNATURE

0005448 FP **PBSRT 76 0 0664 06513
AURELIO RIVERA
273 LLOYD STREET, APT. 1
NEW HAVEN CT 06513

Dear Licensed/Certified Professional,
Attached you will find your validated license/certification for the coming year. Should you have any questions about your license/certificate renewal, please do not hesitate to write or call:

Department of Public Health
P.O. Box 340308
M.S.#12MQA
Hartford, CT 06134-0308

(860) 509-7603
or
(860) 509-7596

Sinderely,

JOXEL GARCIA, M.D., COMMISSIONER
DEPARTMENT OF PUBLIC HEALTH

INSTRUCTIONS:

1. Detach and sign each of the cards on this form.
2. Display the large card in a prominent place in your office or place of business.
3. The wallet card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.
4. The employer's copy is for persons who must demonstrate current licensure/certification in order to retain employment or privileges. The employer's card is to be presented to the employer and kept by them as a part of your personnel file. Only one copy of this card can be supplied to you.

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A

ASBESTOS ABATEMENT WORKER

CERTIFICATION NO.
003093
CURRENT THROUGH
04/30/03
VALIDATION NO.
02-685883

AURELIO RIVERA

SIGNATURE

COMMISSIONER, DEPT. OF PUBLIC HEALTH

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
NAME
AURELIO RIVERA

VALIDATION NO.	CERTIFICATION NO.	CURRENT THROUGH
02-685883	003093	04/30/03

PROFESSION
ASBESTOS ABATEMENT WORKER

SIGNATURE

COMMISSIONER, DEPT. OF PUBLIC HEALTH

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
NAME
AURELIO RIVERA

VALIDATION NO.	CERTIFICATION NO.	CURRENT THROUGH
02-685883	003093	04/30/03

PROFESSION
ASBESTOS ABATEMENT WORKER

SIGNATURE

COMMISSIONER, DEPT. OF PUBLIC HEALTH

Superior Industries LLC

SUPERIOR INDUSTRIES L.L.C.

Committed to a Clean Environment

Certificate of Completion

Awarded to

Aurelio R. Rivera

(SSN 047-02-6139) (DOB 4-10-71)

Has completed an 8 Hour Approved Course of Instruction in Asbestos Abatement Removal and Disposal (AARD)

Worker Refresher Training - Spanish

June 22, 2002

Required by OSHA and the EPA Revised MAP for accreditation under the TSCA Title 11 as self-certified by Trainer 8/5/97

Required by Connecticut Regulations 19a-332-21

SUPERIOR INDUSTRIES LLC
342 Carter Lane
Southington, CT 06489
860-620-1133 (voice)
860-620-1134 (fax)

Examination Date: June 22, 2002
Expiration Date: June 22, 2003
Certificate Number: 047-02-6139-02

Earl R. Clark, Training Director

ANDO International

Asbestos and Lead Abatement Training

74-09 37th Ave., Jackson Heights, New York 11372
Tel.:(718) 779-0522 Fax.:(718) 779-8937

HEREBY CERTIFIES

AURELIO RIVERA

HAS SUCCESSFULLY COMPLETED A N.Y.S. D.O.H. / US E.P.A / A.H.E.R.A. 32 Hr Course Entitled

ASBESTOS WORKER

(In Spanish language)

FOR THE PURPOSE OF TITLE 10 N.Y.C.R.R. PART 73 AND E.P.A.-40 CFR Part 763 ACCREDITATION
THE OFFICIAL RECORD OF SUCCESSFUL COMPLETION FOR THIS COURSE IS THE DOH 2832 FORM-CERTIFICATE OF COMPLETION OF ASBESTOS SAFETY TRAINING PROGRAM

On this 22nd day, of July 2001
Date (s) of course: 07/14/01 to 07/22/01

Director: Nicolas Portela Nicolas Portela

Expiration Date: 07/22/02
Certificate#: 072201AHNY-12
Exam date: 07/22/01
ExamGrade: 88%

CERT# LS-100 - 171

CHEMSCOPE TRAINING DIVISION

STATEMENT OF COMPLETION

This is to state that

Aurelio Rivera

Has successfully completed the
State of Connecticut's
HUD-approved training in

**LEAD-SAFE WORK PRACTICES FOR
PAINTING, REMODELING, AND MAINTENANCE**

EXAMINATION DATE: 01/21/03
EXPIRATION DATE: N/A

Ronald D. Arena
Training Director

CHEM SCOPE, INC.
15 Moulthrop Street
North Haven, CT 06473
(203) 865-5605

Connecticut Occupational Health Network

FORM #8: MEDICAL SURVEILLANCE REPORT FOR RESPIRATOR USE IN ACCORDANCE WITH 29 CFR 1910.134 OSHA RESPIRATORY PROTECTION STANDARD: EMPLOYER COPY

IN

Administration
127 Washington Ave.
North Haven, CT
06473
877 384-7768
Medical Management
877 666-5345

Eastern Occupational Health Centers

1064 East Main St.
Meriden, CT 06450
203-237-2044
FAX 203-237-4066

127 Washington Ave.
North Haven, CT
06473
203-239-0468
FAX 203-234-0164

9 Research Dr.
Milford, CT 06460
203-882-5110
FAX 203-882-5124

333 Kennedy Drive,
Suite 202
Torrington, CT 06790
[illegible]2-4552
[illegible]0 489-4647

Hartford Medical Group

1260 Silas Deane Hwy
Wethersfield, CT
06109
860-571-7253

1060 Day Hill Road
Windsor, CT 06095
860-688-8383

265 Ellington Rd
East Hartford, CT
06108
860-569-1100

263 West Middle Turnpike
Manchester, CT 06040
860-646-8595

1531 Albany Avenue
West Hartford, CT
06117
860-232-4891

23 South Quaker La
Simsbury, CT 06110
6[illegible]5-5908

1 [illegible]dow Road
[illegible], CT 06001
60 284-5111

Name: Darilia Rivera SSN: 049-02-6124 Exam date: 8/19/02
Employer Contact _____ Employer Telephone: ___-___-_____
Employer: _____
Employer Address: _____
Report status: ☒ Final report ☐ Preliminary report

A medical surveillance review was conducted consisting of the following:
☒ review of the mandated medical questionnaire completed by this employee
☒ physical examination, ☐ additional testing: _____
☒ spirometry, ☐ chest x-ray, ☐ B-reader, ☐ EKG

Based on this review and additional information regarding the Respiratory Protection Program and respirator use supplied by the employer, I conclude:

✓ There are no limitations on respirator use for this individual once they have been properly fitted and trained.

_____ This individual has vision impairment. Corrective insert lenses may be required if they are assigned to use of a full face respirator.

_____ Must shave for proper fit of negative pressure respirator

_____ Individual advised that cigarettes increase the risk of lung diseases and cancer and may compound the risks of exposure to asbestos, arsenic, cadmium and other toxic substances. Advise smoking cessation.

_____ A baseline respiratory examination is recommended to clarify issues from the review of the mandated medical questionnaire . Please call our office to schedule this.

_____ This employee is not medically suitable to use respiratory protective equipment at this time.

_____ We recommend re-evaluation for respirator use as indicated below or as otherwise indicated under 29 CFR 1910.134.

- ☐ 1 year (Commonly for follow-up of baseline condition, hazmat or emergency responder team members, wearers of SCBA, IDLH atmosphere, age over 45 years)
- ☐ 2 years (Commonly for age 35-45 years)
- ☐ 3 years (Commonly for individuals age less than 35 years)

_____ Individual is advised of a medical condition that may warrant further evaluation or monitoring.

_____ Referred to personal physician for nonoccupational medical condition

Comments:

_____

_____

The above individual has been informed of the results of this exam and potential health effects of pertinent exposure(s), and has been supplied with a copy of these written opinions. The entire examination will be maintained by us as a confidential medical record in accordance with regulatory statutes.

Peter A Hunt PAC — Occupational Health Care Practitioner

Signature: Peter A Hunt PA C

Date 8/19/02

cc: Employee

Connecticut Occupational Health Network
FORM #9: EMPLOYER ASBESTOS MEDICAL SURVEILLANCE EXAM REPORT CLEARANCE LETTER

AN

Administration
127 Washington Ave.
North Haven, CT
06473
877 384-7768
Medical Management
877 666-5345

Eastern Occupational Health Centers

1064 East Main St.
Meriden, CT 06450
203-237-2044
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[illegible]82-4552
[illegible] 860 489-4647

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2531 Albany Avenue
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06117
860-232-4891

923 South Quaker La
Elmwood, CT 06110
9[illegible] [illegible]36-5908

Hopmeadow Road
Avon, CT 06001
860 284-5111

Name: Aurilio Rivera SSN: 047-[illegible]-6139 Exam date: 8/19/02
Employer Contact _____ Employer Telephone: ___-___-____
Employer: _____
Employer Address: _____

Report status: ☒ Final report ☐ Preliminary report

This letter confirms that the above individual was examined in compliance with the OSHA asbestos standard (CFR 1910.1001 and 1926.58). The required asbestos questionnaire, a medical and work history, and a physical examination were performed. The following tests were administered.

☐ CHEST X-RAY, ☐ "B" READING RESULT: ☐ Normal / ☐ Abnormal
Should have repeat chest x-ray in ___ years. OSHA recommendations are:

Years since first exposure	Age 15-35	35+-45	45+
0-10	Every 5 years	Every 5 years	Every 5 years
10+	Every 5 years	Every 2 years	Every 1 year

☒ PULMONARY FUNCTION TEST RESULT: ☒ Normal / ☐ Abnormal

COMMENTS: ☒ None ☐ Findings: _____

The following conditions were identified which may place this employee at increased risk of health impairment from asbestos exposure: ☐ None

☐ Smoker. This patient was cautioned regarding the increased risk of lung cancer when asbestos exposure and cigarette smoking are combined. The benefits of smoking cessation, smoking cessation programs and options were discussed.

☐ Other: _____

The following limitations on personal protective equipment, including respirators, are indicated:

☒ None: The patient is medically qualified to wear all personal protective equipment.

☐ Patient limitations: _____

The employee has been informed of the results of the medical examination, both with regard to occupational and general medical conditions. In accordance with the Standard, findings and diagnoses unrelated to asbestos exposure may not be communicated to the employer. Also, in accordance with the Standard, a copy of this opinion is being forwarded to the employee.

Peter A. Hunt PA-C
Occupational Health Care Practitioner

Peter A. Hunt PA-C
Signature

Date 8/19/02

cc Employee

Connecticut Occupational Health Network

:OHN

Administration
127 Washington Ave.
North Haven, CT
06473
877 384 -7768
Medical Management
877 666-5345

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1064 East Main St.
Meriden, CT 06450
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860-569-1100

263 West Middle Turnpike
Manchester, CT 06040
860-646-8595

7531 Albany Avenue
West Hartford, CT
06117
860-232-4891

923 South Quaker La
Elmwood, CT 06110
860-236-5908

neadow Road
on, CT 06001
860 284-5111

FORM # 10: EMPLOYEE ASBESTOS MEDICAL SURVEILLANCE EXAM REPORT NOTIFICATION LETTER

Name: Aurelio Rivera SSN: 071-02-6139 Exam date: 8/19/01

This letter is a written report regarding the results of your asbestos surveillance examination as required by the OSHA Standard (29 CFR 1910.1001 and 1926.58).

Enclosed is a copy of the letter sent to your employer, which you are required to receive. Please note any medical conditions or personal protective equipment and restrictions which may be indicated on this letter. Although asbestos is a hazardous substance, individual risk may be adequately controlled by meticulous observation of safe work practices. Careful use of protective equipment and proper techniques are essential to safeguarding your health. It is important to note that this type of examination does not substitute for ongoing care by your personal physician. Additional aspects of routine health care should be discussed with your own physician.

Non-work related medical findings which warrant follow up: _____

Recommendations: _____

___ Smoking greatly increases the risk of disease from asbestos exposure. Quitting smoking has been shown to greatly reduce the risk of most lung cancers and smoking related diseases. There are many smoking cessation programs available in local communities sponsored by hospitals, or the local heart or lung association. Contact these agencies for information. Many smoking cessation products (eg: the nicotine patch) can be purchased at a pharmacy without a prescription. If these do not work, prescription medications are available through your primary care provider that have assisted many people through the "quit the habit" process.

Sincerely,

Peter A Hunt PA-C
Occupational Health Care Practitioner
Date 8/19/01

Peter A Hunt PA-C
Signature

Enclosure: Employer letter

RESPIRATOR FIT TEST

DATE: 7-16-02

EMPLOYEE NAME: Aurelio Rivera

SOCIAL SECURITY # 047-02-6139

FIT TEST: PASS ✓ ½ Face North

FAIL _____ REASON: _____

_____

_____

NAME OF PERSON CONDUCTING FIT TEST: J. Moffman

I have read and fully understand the respiratory protection program manual. I have also received a fit test using the procedures in Appendix A of the manual.

EMPLOYEE SIGNATURE Aurelio Rivera

RESPIRATOR FIT TEST

DATE: 6-20-02

EMPLOYEE NAME: Aurelio Rivera

SOCIAL SECURITY # 047-02-6139

FIT TEST: PASS ✓ 3M Full face PAPR

FAIL _____ REASON: _____

NAME OF PERSON CONDUCTING FIT TEST: J. Hoffman

I have read and fully understand the respiratory protection program manual. I have also received a fit test using the procedures in Appendix A of the manual.

EMPLOYEE SIGNATURE Aurelio Rivera

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

January 30, 2003

Oscar Hernandez
505 DALY ROAD
COVENTRY, CT 06238-

DUPLICATE LICENSE

This is to certify that the records of the Connecticut Department of Public Health indicate that the above mentioned individual has been issued Connecticut **Asbestos Abatement Supervisor** License, number 000944. This license is current through 01/31/2004.

Sincerely,

Joxel Garcia, MD, MBA
COMMISSIONER
Commissioner's Office

JG:MR

(seal)

Not valid unless affixed with seal of
Department of Public Health

Phone: (860) 509-7596, 509-7603
Telephone Device for the Deaf (860) 509-7191
410 Capitol Avenue - MS # 12MQA
P.O. Box 340308 Hartford, CT 06134
An Equal Opportunity Employer
Website for licensure verification http://www.ct-clic.com

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
OSCAR HERNÁNDEZ

VALIDATION NO.	CERTIFICATION NO.	CURRENT THROUGH
02-628965	000944	01/31/03

PROFESSION
ASBESTOS ABATEMENT SUPERVISOR

SIGNATURE

ETCI

Environmental Training and Consulting, Inc.
300 Church Street, Suite 302, Wallingford, CT 06492
Phone: (203) 269-3690 Fax: (203) 269-3823

Certificate of Completion

Oscar Hernandez
043-58-4724

has successfully completed and passed a hands-on evaluation and an examination covering the contents of the eight (8) hour, one day refresher course for Asbestos Abatement Suprvisor Training as required under the Revised Model Accreditation Plan as authorized by TSCA and in accordance with Connecticut General Statutes Section 20-440 as certified by the undersigned.

Date of Course: 11/09/02

Date of Exam: 11/09/02

Expiration Date: 11/09/03
Certificate Number: ASB-SR-110902-01

John V. Bruce
Training Coordinator

CERT# LS-100 - 38

CHEMSCOPE TRAINING DIVISION

STATEMENT OF COMPLETION

This is to state that

Oscar Hernandez

Has successfully completed the
State of Connecticut's
HUD-approved training in

LEAD-SAFE WORK PRACTICES FOR PAINTING, REMODELING, AND MAINTENANCE

EXAMINATION DATE: 11/03/01
EXPIRATION DATE: N/A

Ronald D. Arena
Training Director

CHEM SCOPE, INC.
15 Moulthrop Street
North Haven, CT 06473
(203) 865-5605

CERT# A-103S - 0

CHEMSCOPE TRAINING DIVISION

ASBESTOS CONTRACTOR/SUPERVISOR REFRESHER

8 HOUR TRAINING CERTIFICATE

Oscar Hernandez

355 Sackett Point Road, #4 , North Haven CT

043-56-4724

Has attended an 8 hour annual refresher course on the subject discipline on

11/19/01 and has passed a written examination.

"The person receiving this certificate has completed the requisite training required for asbestos accreditation as a supervisor under TSCA Title II"

Course topics include a review and update on asbestos health hazards, personal protection, emission control measures, government regulations, planning work areas, removal practices and procedures and air monitoring.

Examination Date: 11/19/01

Expiration Date: 11/19/02

This training course has been accredited by the State of Connecticut.

Ronald D. Arena
Director

CHEMSCOPE, INC.
15 Moulthrop Street
North Haven Ct 06473
(203) 865-5605

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CHEMSCOPE TRAINING DIVISION
ASBESTOS CONTRACTOR/SUPERVISOR REFRESHER

8 Hours Training Course

Name: Oscar Hernandez
SS#: 043-56-4724
Expiration Date: 11/19/02
DIRECTOR Cert#: A-103S-0

Superior Industries LLC

SUPERIOR INDUSTRIES L.L.C.

Committed to a Clean Environment

Certificate of Completion

Awarded to

Oscar Hernandez

(SSN 043-56-4724) (DOB 01/22/65)

Has completed an 8 Hour Approved Course of Instruction in Asbestos Abatement Removal and Disposal (AARD)

Supervisor Refresher Training

November 18, 2000

Required by OSHA and the EPA Revised MAP for accreditation under the TSCA Title 11 as self-certified by Trainer 8/5/97

Required by Connecticut Regulations 19a-332-21

SUPERIOR INDUSTRIES LLC
290 Beach Road
Wolcott, CT. 06716
203-879-5531 (voice)
860-260-1134 (fax)

Examination Date: November 18, 2000
Expiration Date: November 18, 2001
Certificate Number: 043-56-4724

Larry Burdge

Larry Burdge, Training Director

CERT# A-103S - 155

CHEMSCOPE TRAINING DIVISION

ASBESTOS CONTRACTOR/SUPERVISOR REFRESHER

8 HOUR TRAINING CERTIFICATE

Oscar Hernandez

222 Elm Street Suite 5, North Haven CT

043-56-4724

Has attended an 8 hour annual refresher course on the subject discipline on

12/3/99 and has passed a written examination.

"The person receiving this certificate has completed the requisite training required for asbestos accreditation as a supervisor under TSCA Title II"

Course topics include a review and update on asbestos health hazards, personal protection, emission control measures, government regulations, planning work areas, removal practices and procedures and air monitoring.

Examination Date: 12/3/99

Expiration Date: 12/3/00

This training course has been accredited by the State of Connecticut.

Ronald D. Arena
Training Director

CHEMSCOPE, INC.
15 Moulthrop Street
North Haven Ct 06473
(203) 865-5605

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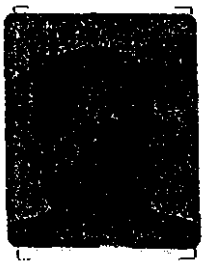
ASBESTOS ABATEMENT
SUPERVISOR REFRESHER

Name/Certificate #	
Oscar Hernandez 043564724ASBSR0197	
Course Date 01-10-97	Exam Date 011097
Expires 011098	

ASBESTOS ABATEMENT
SUPERVISOR REFRESHER

Name/Certificate #	
Oscar Hernandez 043564724ASBSR0296	
Course Date 02-02-96	Exam Date 020296
Expires 020297	

ASBESTOS ABATEMENT
SUPERVISOR REFRESHER



Name/Certificate #	
Oscar Hernandez 043564724ASBSR0198	
Course Date 01-09-98	Exam Date 010998
Expires 010999	

Asbestos Abatement Certification Training

8 Hour Supervisor Refresher Course

Name: Oscar Hernandez

SS#: 043 56 4724

Course Date: 7/8/89 Expiration Date: 7/8/90

Authorized Signature

EnviroMed Services, Inc
25 Science Park • New Haven, CT 06511

CON-TEST

SITE SUPERVISOR COURSE

NAME: Oscar Hernández

S.S. #: 043-56-4724

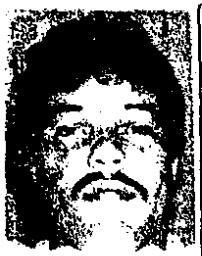
DATES OF TRAINING: 7/29/88

AUTHORIZED SIGNATURE

CTS

EXPIRES 7/29/89

HEALTH, SAFETY & ASBESTOS
ABATEMENT TECHNIQUES
8-HOUR REVIEW COURSE for FOREMAN/SUPERVISOR



Name: Oscar Hernandez

SS #: 043-56-4724

Issued:	Expires:
6/27/91	6/27/92
Test Grade: 90%	Certificate #: C-0225SR

HEALTH, SAFETY & ASBESTOS
ABATEMENT TECHNIQUES
8-HOUR REVIEW COURSE for FOREMAN/SUPERVISOR

Name: Oscar Hernandez

SS #: 043-56-4724

Issued:	Expires:
7/3/90	7/3/91
Test Grade: 92%	Certificate #: C-0225-SR

HEALTH, SAFETY & ASBESTOS
ABATEMENT TECHNIQUES
8-HOUR REVIEW COURSE for FOREMAN/SUPERVISOR

Name: Oscar Hernandez

SS #: 043-56-4724

Issued:	Expires:
2/5/93	2/5/94
Test Grade: 94%	Certificate #: C-0225SR

HEALTH, SAFETY & ASBESTOS
ABATEMENT TECHNIQUES
8-HOUR REVIEW COURSE for FOREMAN/SUPERVISOR

Name: Oscar Hernandez

SS #: 043-56-4724

Issued:	Expires:
5-7-92	5-7-93
Test Grade: 82%	Certificate #: C-0225SR

ASBESTOS ABATEMENT
SUPERVISOR REFRESHER

Name/Certificate #
Oscar Hernandez
043564724ASBSR0295

Course Date	Exam Date
02-03-95	020395
Expires	020396

HEALTH, SAFETY & ASBESTOS
ABATEMENT TECHNIQUES
40-HOUR COURSE for FOREMAN/SUPERVISOR

Name: Oscar Hernandez

SS #: 043-56-4724

Issued:	Expires:
1-20-94	1-20-95
Test Grade: 94%	Certificate #: C-0225SR

Lead Abatement Worker Refresher

Name: Oscar Hernandez	
Address: P.O. Bxo 1105 South Windsor, CT 06074	
S.S.#: 043-56-4724	
Certificate#: 043564724LEADR0795	
Course Date: 07-27-95	Completion Date: 07-27-95

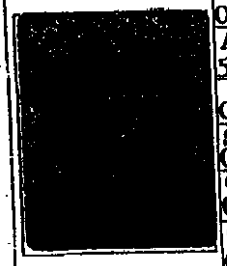
*Refresher Due One Year After Completion Date

LEAD PAINT ABATEMENT WORKER TRAINING COURSE

NAME: Oscar Hernandez	
S.S.#: 043-56-4724	
CERTIFICATE#: 043564724LEADW0794	
DATE COMPLETED: 7-1-94	
REFRESHER DATE: 7-1-95	

COMPLIES WITH FEDERAL AND STATE REGULATIONS

Lead Abatement Worker Refresher



Name: Oscar Hernandez	
Address: 505 Daly Road Coventry, CT 06238	
S.S.#: 043-56-4724	
Certificate#: 043564724LEADR0997	
Course Date: 09-25-97	Completion Date: 09-25-97

*Refresher Due One Year After Completion Date

Lead Abatement Worker Refresher

Name: Oscar Hernandez	
Address: P.O. Box 1105 South Windsor, CT	
S.S.#: 043-56-4724	
Certificate#: 043564724LEADR0896	
Course Date: 08-29-96	Completion Date: 08-29-96

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

STEPHEN A. HARRIMAN
COMMISSIONER, DEPARTMENT OF PUBLIC HEALTH

LEAD ABATEMENT WORKER

No. AW000515B DOB 1/22/65
ISSUED 2/1/96 EXP 1/31/97
OSCAR HERNANDEZ

14 GRAHAM ROAD
P.O. BOX 1105
SOUTH WINDSOR CT 06074-

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

STEPHEN A. HARRIMAN
COMMISSIONER, DEPARTMENT OF PUBLIC HEALTH

LEAD ABATEMENT WORKER

No. AW000515A DOB 1/22/65
ISSUED 12/31/95 EXP 1/31/96
OSCAR HERNANDEZ

14 GRAHAM ROAD
P.O. BOX 1105
SOUTH WINDSOR CT 06074-

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

STEPHEN A. HARRIMAN
COMMISSIONER, DEPARTMENT OF PUBLIC HEALTH

LEAD ABATEMENT WORKER

No. AW000515D DOB 1/22/65
ISSUED 2/1/98 EXP 1/31/99
OSCAR HERNANDEZ

505 DALY ROAD

COVENTRY CT 06238-

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

STEPHEN A. HARRIMAN
COMMISSIONER, DEPARTMENT OF PUBLIC HEALTH

LEAD ABATEMENT WORKER

No. AW000515C DOB 1/22/65
ISSUED 2/1/97 EXP 1/31/98
OSCAR HERNANDEZ

14 GRAHAM ROAD
P.O. BOX 1105
SOUTH WINDSOR CT 06074-

CERT# L-300 - 512

CHEMSCOPE TRAINING DIVISION

LEAD ABATEMENT SUPERVISOR REFRESHER

8 HOUR TRAINING CERTIFICATE

Oscar Hernandez

355 Sackett Point Road, #4 , North Haven CT

043-56-4724

Has attended an 8 hour course on the subject discipline on

9/21/01 and has passed a written and hands on skills examination.

The above individual has successfully completed the above training course approved in accordance with the Department of Public Health Standards established pursuant to Section 20-477 of the Connecticut General Statutes.

Course syllabus includes all required topics of State of Connecticut DPH and EPA.

Examination Date: 9/21/01

Expiration Date: 9/21/02

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (U.S.C. 1001 and 15 U.S.C. 2615), I certify that this training complies with all applicable requirements of Title IV of TSCA, 40 CFR part 745 and any other applicable Federal, State, or local requirements.

Ronald D. Arena
Director

CHEMSCOPE, INC.
15 Moulthrop Street
North Haven Ct 06473
(203) 865-5605

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LITHO IN U.S.A.

CHEMSCOPE TRAINING DIVISION
LEAD ABATEMENT SUPERVISOR INITIAL

40 Hours Training Course

Name: Oscar Hernandez
SS#: 043-56-4724
Expiration Date: 12/10/00
DIRECTOR Cert#: L-404-224

CERT# L-404 - 224

CHEMSCOPE TRAINING DIVISION

LEAD ABATEMENT SUPERVISOR INITIAL
40 HOUR TRAINING CERTIFICATE

Oscar Hernandez

222 Elm Street Suite 5, North Haven CT

043-56-4724

Has attended a 40 hour course on the subject discipline on

12/6/99-12/10/99 and has passed a written and hands on skills examination.

The above individual has successfully completed the above training course approved in accordance with the Department of Public Health Standards established pursuant to Section 20-477 of the Connecticut General Statutes.

Course syllabus includes all required topics of State of Connecticut DPH and EPA.

Examination Date: 12/10/99

Expiration Date: 12/10/00

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (U.S.C. 1001 and 15 U.S.C. 2615), I certify that this training complies with all applicable requirements of Title IV of TSCA, 40 CFR part 745 and any other applicable Federal, State, or local requirements.

Ronald D. Arena
Training Director

CHEMSCOPE, INC.
15 Moulthrop Street
North Haven Ct 06473
(203) 865-5605

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Concentra Medical Centers (CT)

701 Main Street EAST HARTFORD, CT 06108
Phone: (860) 289-5561 Fax: (860) 291-1895

EMPLOYER AUTHORIZATION AND INFORMATION FOR RESPIRATORY EVALUATION

_OYER TO COMPLETE THE FOLLOWING :

ıployee Name: Hernandez, Oscar

ıployer: Asbest-Tech

Address: 505 Daley Road
COVENTRY CT 06238
Employee SSN: 043-56-4724

ıeck Type of Respirator(s) To Be Used (Check ✓ALL that apply)

- [ ] Air-purifying (non-powered)
- [x] Air-purifying (powered)
- [ ] Atmosphere supplying Respirator
- [ ] Combination air-line and SCBA
- [ ] Continous-Flow Respirator
- [ ] Supplied-Air Respirator
- [ ] Open Circuit SCBA
- [ ] Closed Circuit SCBA
- [ ] Dust Mask
- [x] 1/2 Face with Canisters
- [x] Full Face with Canisters

ıake: _____ Model: _____ Cartridge: _____

Extent of Useage (Check ✓ALL that apply)

- [x] On a daily basis 40 Total Hours
- [ ] Occasionally - but not more than twice a week ____ Total Hours
- [ ] Rarely - or for Emergency situations only ____ Total Hours

Expected Physical Effort Required (Check ✓ALL that apply)

- [ ] Light
- [x] Moderate
- [x] Heavy

ıecial Work Conditions
heck ✓ALL That Apply When Wearing Respirator)

- [x] High Places
- [x] Enclosed Places
- [x] Protective Clothing
- [ ] Temperature Extremes
- [ ] Mostly Cold
- [ ] Mostly Hot
- [ ] Other: _____

Exposure to Hazardous Materials (Check ✓ALL that apply)

- [ ] Arsenic
- [ ] Coke Oven
- [ ] Cadmium
- [ ] Methylene Chloride
- [ ] Textiles
- [ ] Benzene
- [ ] Cotton Seed / Dust
- [ ] Formaldehyde
- [x] Lead
- [ ] Chromium

Other(s): Asbestos

ıestionare will be: [ ] HAND CARRIED [ ] MAILED [ ] OTHER

EVALUATION AUTHORIZATION BY: _____
Signature of Employer Representative

O NOT WRITE BELOW THIS LINE **DO NOT WRITE BELOW THIS LINE** **DO NOT WRITE BELOW THIS LINE**

PLHCP [1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYER)

HYSICIAN WILL COMPLETE THE FOLLOWING

ıis report may contain confidential medical information and is intended for the designated employer contact only. The Americans with Disabilities Act nposes very strict limitations on the use of information obtained during physical examination of qualified individuals with disabilities. All information ust be collected and maintained on seperate forms, in seperate files, and must be treated as a confidential medical record, with the following exceptions:

- Supervisors and managers may be informed about necessary restrictions on the work or duties of an employee and necessary accommodations.
- First aid and safety personnel may be informed, when appropriate, if the disability might require emergency treatment.

ıased upon my findings, I have determined that this individual (Check ✓ALL that apply)

- [ ] Employee must schedule a medical examination with Concentra Medical Centers (CT) prior to respirator approval and usage.
- [ ] Class I - No Restrictions on Respirator Use
- [ ] Class II - Some Specific Use Restrictions
- [ ] To be used for Emergency Response or Escape Only
- [ ] Other: _____
- [ ] Class III - Respirator Use is NOT PERMITTED
- [ ] Further Testing / Evaluation is Required. [2]
- [ ] Fit Test Required
- [ ] Fit Test Performed Satisfactorily
- [ ] Fit Test Performed Unsatisfactorily
- [ ] Fit Test NOT Performed at: Concentra Medical Centers (CT
- [ ] Special prescription eyewear needed to accommodate respirator
- [ ] Special prescription eyewear needed to accommodate respirator
- [ ] Facial hair needs to be shaved to assure tight seal on certain face masks.

[1] Physician or other Licensed Healthcare Professional
[2] Employee must seek further medical evaluation by a private physician who must submit a report to Concentra Medical Centers (CT) of his/her findings to

:heck ✓ ALL that apply)

- [ ] The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- [ ] The above individual HAS NOT been examined by me for respirator fitness. The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2. In accordance with 29 CFR 1910.134, this limited evaluation is specific to respirator use only. Employees would be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- [ ] In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

...ıician's Signature

JOHN G ROBERTSON MD
Physician's Name (Printed)

00026 CT
'hysician's License Number (Optional in Most States)

8-30-02
Date of Exam

8-30-03
Expires On

Concentra Medical Centers (CT)

701 Main Street EAST HARTFORD, CT 06108
Phone: (860) 289-5561 Fax: (860) 291-1895

PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYEE)

:vice Date: 08/30/2002

Employee SSN: 043-56-4724

ıployee Name:
rnandez, Oscar

dress:
5 Daley Road

VENTRY CT 06238

ıployer: Asbest-Tech

u were evaluated in this office of your medical status related to your physical capability wear a respirator. (Check ✓ one that applies)

✓ There were no abnormal findings that would hamper your ability to perform your job duties while wearing a respirator.
The abnormal findings listed below were not related to wearing a respirator but should be reported to your personal physician for further evaluation.

ased upon the results of this evaluation it is my opinion that you: (Check ✓ ALL that apply)

✓ ARE qualified to wear a respirator.
Have the following restrictions concerning respirator usage: _____
ARE NOT qualified to wear a respirator.
uire further testing by your private physician who must submit a written report of his/her findings to **ncentra Medical Centers (CT)** so that a final decision on your ability to wear a respirator can be made.
Must wear Special prescription eye-wear needed to accommodate respirator.
Must use an Eye glass conversion kit.
May need to shave Facial hair to assure tight seal on certain face masks.
Need to stop smoking.

heck ✓ ALL that apply)

The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician.
This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
✓ The above individual HAS NOT been examined by me for respirator fitness. The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2. In accordance with 29 CFR 1910.134, this limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

Respirators must be properly selected based on the containment and concentration levels to which the worker will be exposed. Failure to follow the use and fitting instruction and warnings for proper use contained on the respirator packaging and/or failure to wear the respirator during all times of exposure can reduce the respirator's effectiveness and result in sickness or death. Wearer must be trained in the proper care of any respirator.Refer to product literature and packaging for specific information regarding fit, use and/or limitations.

LHCP Signature

Employee's Signature

Name (printed)

8-30-03
Expiration Date

ysician or other Licensed Healthcare Professional

To be maintained in the employee's file with a copy to the employee

Specimen #	Type	Primary Lab	Report Status	
2-147-0052-0	S	RN	FINAL	PG 1

ME 1620 Additional Information

:5;HS: ;TP: ;PP: ;CT: DOB: 01/22/65

CD- 51551623073 FASTING:

Name	Sex	Age (Yr/Mos)
RNANDEZ, OSCAR	M	037/09

Address

Collected	Date Entered	Date Reported	
08/02	11/08/02	11/13/02	9891

LabCorp®

03

Clinical Information 11-13-02 05:48

Physician ID: FEINSTEIN

Patient ID:

Account

CONCENTRA EAST HARTFORD 0715 06700450-
SUE O'MALLEY -ADMINISTRATOR 01
701 MAIN ST 01
EAST HARTFORD , CT 06108-
860-289-5561 CTB

TESTS	RESULT	FLAG	UNITS	REFERENCE INTERVAL	LAB
) STANDARD PROFILE, BLOOD					
id, Blood (Adult)	2		ug/dL	0 - 19	RN
	Environmental Exposure:				
	WHO		<20 ug/dL		
	Occupational Exposure:				
	OSHA Lead Std		40 ug/dL		
	BEI		30 ug/dL		
	USPHS Y2K Goal		<25 ug/dL		
	Detection Limit = 1 ug/dL				
toporphyrin (FEP)	30		ug/dL	0 - 34	RN
c Protoporphyrin	33		ug/dL	0 - 38	
	Exposed: BEI (Based on exposure to lead, sampling time: 1 month exposure) 100 mcg/dL				

.. RN LABCORP RARITAN DIRECTOR: MARLENE DESQUITADO, MD
69 FIRST AVE RARITAN, NJ 08869-0000

INQUIRIES THE PHYSICIAN MAY CONTACT: BRANCH: 800-342-2475 LAB: 908-526-2400

LAST PAGE OF REPORT

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MOBILE EQUIPMENT

OPERATOR CERTIFICATION

THIS CARD CERTIFIES THAT

[redacted]

OSCAR HERNANDEZ

[redacted]

has successfully fulfilled all the theoretical and practical training and evaluation requirements listed in federal and regional regulations and is hereby authorized to operate the equipment listed on the reverse of the following work area (or applications)

[redacted]

7243-152RT

[redacted]

DEAN McGREGOR

[redacted]

ASBEST-O-TECH, INC.

[redacted]

RESPIRATOR FIT TEST

DATE: 7-12-02

EMPLOYEE NAME: Oscar Hernandez

SOCIAL SECURITY # 043-56-4724

FIT TEST: PASS ✓

FAIL _____ REASON: _____

Glendale ½ Face A.P.R.

North P.A.P.R.

NAME OF PERSON CONDUCTING FIT TEST: J. Hoffman

I have read and fully understand the respiratory protection program manual. I have also received a fit test using the procedures in Appendix A of the manual.

EMPLOYEE SIGNATURE _____

Dear Licensed/Certified Professional,

Attached you will find your validated license/certification for the coming year. Should you have any questions about your license/certificate renewal, please do not hesitate to write or call:

Department of Public Health
P.O. Box 340308
M.S.#12MQA
Hartford, CT 06134-0308

(860) 509-7603
or
(860) 509-7596

Sinderely,

JOXEL GARCIA, M.D., COMMISSIONER
DEPARTMENT OF PUBLIC HEALTH

0006261 FP **PRSRT T3 0 1264 06513
CHEO SARMIENTO
61 WARWICK STREET
NEW HAVEN CT 06513

INSTRUCTIONS:

1. Detach and sign each of the cards on this form.
2. Display the large card in a prominent place in your office or place of business.
3. The wallet card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.
4. The employer's copy is for persons who must demonstrate current licensure/certification in order to retain employment or privileges. The employer's card is to be presented to the employer and kept by them as a part of your personnel file. Only one copy of this card can be supplied to you.

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A

ASBESTOS ABATEMENT WORKER

CERTIFICATION NO.
003091
CURRENT THROUGH
12/31/03
VALIDATION NO.
02-783060

CHEO SARMIENTO

SIGNATURE

COMMISSIONER DEPT. OF PUBLIC HEALTH

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
CHEO SARMIENTO

VALIDATION NO. 02-783060
CERTIFICATION NO. 003091
CURRENT THROUGH 12/31/03

PROFESSION
ASBESTOS ABATEMENT WORKER

SIGNATURE

COMMISSIONER DEPT. OF PUBLIC HEALTH

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
CHEO SARMIENTO

VALIDATION NO. 02-783060
CERTIFICATION NO. 003091
CURRENT THROUGH 12/31/03

PROFESSION
ASBESTOS ABATEMENT WORKER

SIGNATURE

COMMISSIONER DEPT. OF PUBLIC HEALTH

Superior Industries LLC

SUPERIOR INDUSTRIES L.L.C.

Committed to a Clean Environment

Certificate of Completion

Awarded to

Cheo Sarmiento

(SSN 092-04-2610) (DOB 12-26-78)

Has completed an 8 Hour Approved Course of Instruction in Asbestos Abatement Removal and Disposal (AARD)

Worker Refresher Training - Spanish

June 22, 2002

Required by OSHA and the EPA Revised MAP for accreditation under the TSCA Title 11 as self-certified by Trainer 8/5/97

Required by Connecticut Regulations 19a-332-21

SUPERIOR INDUSTRIES LLC
342 Carter Lane
Southington, CT 06489
860-620-1133 (voice)
860-620-1134 (fax)

Examination Date: June 22, 2002
Expiration Date: June 22, 2003
Certificate Number: 092-04-2610-02

Earl R. Clark, Training Director

ANDO International

Asbestos and Lead Abatement Training

74-09 37th Ave., Jackson Heights, New York 11372
Tel.:(718) 779-0522 Fax.:(718) 779-8937

HEREBY CERTIFIES

CHEO SARMIENTO

HAS SUCCESSFULLY COMPLETED A N.Y.S. D.O.H. / US E.P.A / A.H.E.R.A. 32 Hr Course Entitled

ASBESTOS WORKER

(In Spanish language)

FOR THE PURPOSE OF TITLE 10 N.Y.C.R.R. PART 73 AND E.P.A.-40 CFR Part 763 ACCREDITATION

THE OFFICIAL RECORD OF SUCCESSFUL COMPLETION FOR THIS COURSE IS THE DOH 2832 FORM-CERTIFICATE OF COMPLETION OF ASBESTOS SAFETY TRAINING PROGRAM

On this 22nd day, of July 2001
Date (s) of course: 07/14/01 to 07/22/01

Director: Nicolas Portela Nicolas Portela

Expiration Date:07/22/02
Certificate#:072201AHNY-17
Exam date: 07/22/01
ExamGrade: 86%

1996

Connecticut Occupational Health Network

CtOHN

Administration
127 Washington Ave.
North Haven, CT
06473
877 384-7768
Medical Management
877 666-5345

Eastern Occupational Health Centers

1064 East Main St.
Meriden, CT 06450
203-237-2044
FAX 203-237-4066

127 Washington Ave.
North Haven, CT
06473
203-239-0468
FAX 203-234-0164

9 Research Dr.
Milford, CT 06460
203-882-5110
FAX 203-882-5174

333 Kennedy Drive,
Suite 202
Torrington, CT 06790
860 482-4552
Fax 860 489-4647

Hartford Medical Group

1260 Silas Deane Hwy
Wethersfield, CT
06109
860-571-7253

1060 Day Hill Road
Windsor, CT 06095
860-688-8383

265 Ellington Rd
East Hartford, CT
06108
860-569-1100

263 West Middle Turnpike
Manchester, CT 06040
860-646-8595

2531 Albany Avenue
West Hartford, CT
06117
860-232-4891

923 South Quaker La
Elmwood, CT 06110
860-236-5908

Hopmeadow Road
Avon, CT 06001
860 284-5111

FORM # 10: EMPLOYEE ASBESTOS MEDICAL SURVEILLANCE EXAM REPORT NOTIFICATION LETTER

Name: Cheo Sarmiento SSN: 092-01-2610 Exam date: 7/22/02

This letter is a written report regarding the results of your asbestos surveillance examination as required by the OSHA Standard (29.CFR 1910.1001 and 1926.58).

Enclosed is a copy of the letter sent to your employer, which you are required to receive. Please note any medical conditions or personal protective equipment and restrictions which may be indicated on this letter. Although asbestos is a hazardous substance, individual risk may be adequately controlled by meticulous observation of safe work practices. Careful use of protective equipment and proper techniques are essential to safeguarding your health. It is important to note that this type of examination does not substitute for ongoing care by your personal physician. Additional aspects of routine health care should be discussed with your own physician.

Non-work related medical findings which warrant follow up: _____

Recommendations: _____

____ Smoking greatly increases the risk of disease from asbestos exposure. Quitting smoking has been shown to greatly reduce the risk of most lung cancers and smoking related diseases. There are many smoking cessation programs available in local communities sponsored by hospitals, or the local heart or lung association. Contact these agencies for information. Many smoking cessation products (eg: the nicotine patch) can be purchased at a pharmacy without a prescription. If these do not work, prescription medications are available through your primary care provider that have assisted many people through the "quit the habit" process.

Sincerely,

Peter A. Hunt PAC
Occupational Health Care Practitioner
Date 7/22/02

Signature PAC

Enclosure: Employer letter

CtOHN

Administration
127 Washington Ave.
North Haven, CT
06473
877 384-7768
Medical Management
877 666-5345

Eastern Occupational Health Centers

1064 East Main St.
Meriden, CT 06450
203-237-2044
FAX 203-237-4066

127 Washington Ave.
North Haven, CT
06473
203-239-0468
FAX 203-234-0164

9 Research Dr.
Milford, CT 06460
203-882-5110
FAX 203-882-5124

333 Kennedy Drive,
Suite 202
Torrington, CT 06790
860 482-4552
Fax 860 489-4647

Hartford Medical Group

1260 Silas Deane Hwy
Wethersfield, CT
06109
860-571-7253

1060 Day Hill Road
Windsor, CT 06095
860-688-8383

265 Ellington Rd
East Hartford, CT
06108
860-569-1100

263 West Middle Turnpike
Manchester, CT 06040
860-646-8595

2531 Albany Avenue
West Hartford, CT
06117
860-232-4891

923 South Quaker Ln
Elmwood, CT 06110
860-236-5908

Hopmeadow Road
Avon, CT 06001
860 284-5111

Connecticut Occupational Health Network
FORM #9: EMPLOYER ASBESTOS MEDICAL SURVEILLANCE EXAM REPORT CLEARANCE LETTER

Name: Cheo Sarmiento SSN: 092 04 2610 Exam date: 7 / 22 / 02
Employer Contact _____ Employer Telephone: ___ - ___ - ____
Employer: Asbesto - Tech
Employer Address: _____

Report status: ☒ Final report ☐ Preliminary report

This letter confirms that the above individual was examined in compliance with the OSHA asbestos standard (CFR 1910.1001 and 1926.58). The required asbestos questionnaire, a medical and work history, and a physical examination were performed. The following tests were administered.

☐ CHEST X-RAY, ☐ "B" READING RESULT: ☐ Normal / ☐ Abnormal
Should have repeat chest x-ray in ___ years. OSHA recommendations are:

Years since first exposure	Age 15-35	35+-45	45+
0-10	Every 5 years	Every 5 years	Every 5 years
10+	Every 5 years	Every 2 years	Every 1 year

☒ PULMONARY FUNCTION TEST RESULT: ☒ Normal / ☐ Abnormal

COMMENTS: ☐ None ☐ Findings: _____

The following conditions were identified which may place this employee at increased risk of health impairment from asbestos exposure: ☐ None

☐ Smoker. This patient was cautioned regarding the increased risk of lung cancer when asbestos exposure and cigarette smoking are combined. The benefits of smoking cessation, smoking cessation programs and options were discussed.
☐ Other: _____

The following limitations on personal protective equipment, including respirators, are indicated:

☒ None: The patient is medically qualified to wear all personal protective equipment.
☐ Patient limitations: _____

The employee has been informed of the results of the medical examination, both with regard to occupational and general medical conditions. In accordance with the Standard, findings and diagnoses unrelated to asbestos exposure may not be communicated to the employer. Also, in accordance with the Standard, a copy of this opinion is being forwarded to the employee.

Peter A. Hunt PA-C
Occupational Health Care Practitioner
Date 7/22/02

Signature PAC

cc Employee

Connecticut Occupational Health Network

FORM #3: MEDICAL STATUS DETERMINATION REPORT

CtOHN

Administration
127 Washington Ave.
North Haven, CT
06473
877 384-7768
Medical Management
877 666-5345

Eastern Occupational Health Centers

1064 East Main St.
Meriden, CT 06450
203-237-2044
FAX 203-237-4066

127 Washington Ave.
North Haven, CT
06473
203-239-0468
FAX 203-234-0164

9 Research Dr.
Milford, CT 06460
203-882-5110
FAX 203-882-5124

333 Kennedy Drive,
Suite 202
Torrington, CT 06790
860 482-4552
Fax 860 489-4647

Hartford Medical Group

1260 Silas Deane Hwy
Wethersfield, CT
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860-571-7253

1060 Day Hill Road
Windsor, CT 06095
860-688-8383

765 Ellington Rd
East Hartford, CT
06108
860-569-1100

263 West Middle Turnpike
Manchester, CT 06040
860-646-8595

2531 Albany Avenue
West Hartford, CT
06117
860-232-4891

923 South Quaker La
Elmwood, CT 06110
860-236-5908

Hopmeadow Road
Avon, CT 06001
860 764-5111

Name: Cheo Sarmiento SSN: 092-04-2610 Exam date: 7/22/02
Employer Contact _____ Employer Telephone: ___-___-____
Employer: Asbesth - Tech
Employer Address: _____
Job Title: _____

Exam Type: ☐ Preplacement. ☐ Fitness for Duty. ☐ DOT. ☒ Medical Surveillance
Report status: ☐ Final report ☒ Preliminary report

Consent to perform this examination and release relevant information to the employer has been obtained from the applicant/employee.

Based upon the results of the history and physical examination and review of laboratory or testing data for the above employee, the following medical determination is made:

☒ Individual is medically fit for employment in the job described without restrictions.

☐ Individual is medically fit for employment pending additional information:
- ☐ Lab work ☐ Drug test ☐ Other: _____
- ☐ Additional information has been reviewed on ___/___/___ and the individual is deemed medically fit. Signed: _____ Date: ___/___/___

☐ Individual is medically fit for employment in the job described with the following recommended accommodations/restrictions: _____

☐ Individual is not medically fit for the proposed job because the:
- ☐ Applicant has a condition that represents a nonspeculative risk of material health impairment if assigned to perform the essential job functions.
- ☐ Applicant has a medical condition that makes him/her unsuitable for the job being considered for.

☐ We are unable to make a medical determination until additional medical information is obtained. The patient has been placed on medical hold and asked to submit additional medical information within the next two weeks. We will update the medical status as soon as information is obtained or at two weeks.

☒ Recommendations for the use of personal protective equipment such as respirators, gloves, encapsulating suits and hearing protection devices:
- ☒ No restrictions
- ☐ Recommended restrictions or limitations _____

☐ Supplemental report attached / to follow: ☐ DOT, ☐ Med Surv. Report, ☐ Letter

The applicant has been advised of any non-work related health conditions that require follow up. Any information provided to the employer concerning medical conditions and relating to direct threat, first aid, emergency care, or accommodation must be treated as confidential medical information and should be released only with permission of the applicant/employee or where legally required. The complete record will be maintained on file in our office.

Sent to Designated Employer Representative (DER): ☐ mail/☐ fax Date: ___/___/___
☐ Hand carried by applicant/employee to DER

Peter A. Hunt PA-C
Occupational Health Care Practitioner
Date 7/22/02

Signature PA-C

7-01

Asbest-O-Tech, Inc.
355 Sackett Point Road, Unit #4
North Haven, CT 06473
(T) (203) 234-7373 - (F) (203) 288-9565

RESPIRATOR FIT TEST

DATE: 7 / 18 02

EMPLOYEE NAME: CHEO SARRIENTO

SOCIAL SECURITY #: 092 - 04 - 2610

FIT TEST RESULTS PASS: YES ✓ NO ____

IF FAILED – EXPLAIN REASON BELOW: ½ Face North

NAME OF PERSON CONDUCTING THIS FIT TEST:

Jerry Hoffman

I have read and fully understand the Respiratory Protection Program Manual. I have also received a Fit Test using the procedures in Appendix A of the manual.

Employee's Signature: Cheo Sarrientos

CERT# LS-100 - 172

CHEMSCOPE TRAINING DIVISION

STATEMENT OF COMPLETION

This is to state that

Cheo Sarmiento

Has successfully completed the
State of Connecticut's
HUD-approved training in

**LEAD-SAFE WORK PRACTICES FOR
PAINTING, REMODELING, AND MAINTENANCE**

EXAMINATION DATE: 01/21/03
EXPIRATION DATE: N/A

Ronald D. Arena
Training Director

CHEM SCOPE, INC.
15 Moulthrop Street
North Haven, CT 06473
(203) 865-5605

OFFICIAL RECEIPT
CO-99 REV. 8/90
(Stock. No. 6938-116-01)
Printed on Recycled or Recovered Paper

B 748946

STATE OF CONNECTICUT

RECEIVED FROM	DATE OF RECEIPT
Jorge L. Lopez	01/28/03
FOR License renewal Fees ☐ Cash ☐ Check	THE SUM OF $ Ø
AGENCY NAME Dept Permit	RECEIVED BY M. Green

2.50

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
JORGE L LOPEZ

VALIDATION NO.	CERTIFICATION NO.	CURRENT THROUGH
01-615582	000085	01/31/03

PROFESSION
ASBESTOS ABATEMENT WORKER

SIGNATURE

COMMISSIONER OF PUBLIC HEALTH

Superior Industries LLC

SUPERIOR INDUSTRIES L.L.C.

Committed to a Clean Environment

Certificate of Completion

Awarded to

Jorge Lopez

(SSN 047-96-1633) (DOB 1-22-54)

Has completed an 8 Hour Approved Course of Instruction in Asbestos Abatement Removal and Disposal (AARD)

Worker Refresher Training - Spanish

March 30, 2002

Required by OSHA and the EPA Revised MAP for accreditation under the TSCA Title 11 as self-certified by Trainer 8/5/97

Required by Connecticut Regulations 19a-332-21

SUPERIOR INDUSTRIES LLC
342 Carter Lane
Southington, CT 06489
860-620-1133 (voice)
860-620-1134 (fax)

Examination Date: March 30, 2002
Expiration Date: March 30, 2003
Certificate Number: 047-96-1633-02

Earl R. Clark, Training Director

CERT# A-102W - 1005

CHEMSCOPE TRAINING DIVISION

ASBESTOS WORKER REFRESHER

8 HOUR TRAINING CERTIFICATE

Jorge L. Lopez

355 Sackett Point Road, #4 , North Haven CT

047-96-1633

Has attended an 8 hour annual refresher course on the subject discipline on

4/7/2001 and has passed a written examination.

"The person receiving this certificate has completed the requisite training required for asbestos accreditation as a worker under TSCA Title II"

Course topics include a review and update on asbestos health hazards, personal protection, emission control measures, government regulations, planning work areas, removal practices and procedures and air monitoring.

Examination Date: 4/7/2001

Expiration Date: 4/7/2002

This training course has been accredited by the State of Connecticut.

Ronald D. Arena
Training Director

CHEMSCOPE, INC.
15 Moulthrop Street
North Haven Ct 06473
(203) 865-5605

Superior Industries LLC

SUPERIOR INDUSTRIES L.L.C.

Committed to a Clean Environment

Certificate of Completion

Awarded to

Jorge L. Lopez

(SSN 047-96-1633) (DOB 1-22-54)

Has completed a 32 Hour 4 day Approved Course of Instruction in Asbestos Abatement Removal and Disposal (AARD)

Worker Initial

April 3, 2000 to April 6, 2000

Required by OSHA and the EPA Revised MAP for accreditation under the TSCA Title 11 as self-certified by Trainer 8/5/97

Required by Connecticut Regulations 19a-332-21

SUPERIOR INDUSTRIES LLC
290 Beach Road
Wolcott, CT. 06716
203-879-5531 (voice)
860-621-1134 (fax)

Examination Date: April 6, 2000
Expiration Date: April 6, 2001
Certificate Number: 047-96-1633

Earl R. Clark, Training Director

Concentra Medical Centers (CT)

701 Main Street EAST HARTFORD, CT 06108
Phone: (860) 289-5561 Fax: (860) 291-1895

PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYEE)

e. ..e Date: 05/08/2002

mployee Name: opez, Jorge

Employee SSN: 047-96-1633

.ddress: 99 Zion St.
pt.619
IARTFORD CT 06106

.mployer: Asbest-Tech

'ou were evaluated in this office of your medical status related to your physical capability) wear a respirator. (Check ✓ one that applies)

- [x] There were no abnormal findings that would hamper your ability to perform your job duties while wearing a respirator.
- [ ] The abnormal findings listed below were not related to wearing a respirator but should be reported to your personal physician for further evaluation.

Based upon the results of this evaluation it is my opinion that you: (Check ✓ ALL that apply)

- [x] ARE qualified to wear a respirator.
- [ ] Have the following restrictions concerning respirator usage: _____
- [ ] ARE NOT qualified to wear a respirator.
  Require further testing by your private physician who must submit a written report of his/her findings to **oncentra Medical Centers (CT)** so that a final decision on your ability to wear a respirator can be made
- [ ] Must wear Special prescription eye-wear needed to accommodate respirator.
- [ ] Must use an Eye glass conversion kit.
- [ ] May need to shave Facial hair to assure tight seal on certain face masks.
- [ ] Need to stop smoking.

(Check ✓ ALL that apply)

- [x] The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- [ ] The above individual HAS NOT been examined by me for respirator fitness. The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2. In accordance with 29 CFR 1910.134, this limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- [ ] In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

Respirators must be properly selected based on the containment and concentration levels to which the worker will be exposed. Failure to follow the use and fitting instruction and warnings for proper use contained on the respirator packaging and/or failure to wear the respirator during all times of exposure can reduce the respirator's effectiveness and result in sickness or death. Wearer must be trained in the proper care of any respirator.Refer to product literature and packaging for specific information regarding fit, use and/or limitations.

PLHCP Signature

Employee's Signature

Jerry O'Donnell
HCP Name (printed)

5-8-03
Expiration Date

. ysician or other Licensed Healthcare Professional

To be maintained in the employee's file with a copy to the employee

Concentra Medical Centers (CT)

701 Main Street EAST HARTFORD, CT 06108
Phone: (860) 289-5561 Fax: (860) 291-1895

PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYEE)

.ce Date: 05/08/2002

Employee SSN: 047-96-1633

.mployee Name:
opez, Jorge

.ddress:
99 Zion St.
.pt.619
IARTFORD CT 06106

:mployer: Asbest-Tech

'ou were evaluated in this office of your medical status related to your physical capability ɔ wear a respirator. (Check ✓ one that applies)

☑ There were no abnormal findings that would hamper your ability to perform your job duties while wearing a respirator.
☐ The abnormal findings listed below were not related to wearing a respirator but should be reported to your personal physician for further evaluation.

_____

_____

Based upon the results of this evaluation it is my opinion that you: (Check ✓ ALL that apply)

☑ ARE qualified to wear a respirator.
☐ Have the following restrictions concerning respirator usage: _____
☐ ARE NOT qualified to wear a respirator.
 ᐧequire further testing by your private physician who must submit a written report of his/her findings to **ɔncentra Medical Centers (CT)** so that a final decision on your ability to wear a respirator can be made.
☐ Must wear Special prescription eye-wear needed to accommodate respirator.
☐ Must use an Eye glass conversion kit.
☐ May need to shave Facial hair to assure tight seal on certain face masks.
☐ Need to stop smoking.

(Check ✓ ALL that apply)

☑ The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.

☐ The above individual HAS NOT been examined by me for respirator fitness. The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2. In accordance with 29 CFR 1910.134, this limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.

☐ In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

Respirators must be properly selected based on the containment and concentration levels to which the worker will be exposed. Failure to follow the use and fitting instruction and warnings for proper use contained on the respirator packaging and/or failure to wear the respirator during all times of exposure can reduce the respirator's effectiveness and result in sickness or death. Wearer must be trained in the proper care of any respirator.Refer to product literature and packaging for specific information regarding fit, use and/or limitations.

Jerry O'Donnell
PLHCP Signature

Employee's Signature

Jerry O'Donnell
ICP Name (printed)

5-8-03
Expiration Date

. ,ysician or other Licensed Healthcare Professional

To be maintained in the employee's file with a copy to the employee

Connecticut Occupational Health Network

FORM #12: MEDICAL SURVEILLANCE EXAMINATION REPORT CLEARANCE LETTER: EMPLOYER COPY

COHN

A ...ration
1... ...ashington Ave.
North Haven, CT
06473
877 384-7768
Medical Management
877 666-5345

Eastern Occupational
Health Centers

1064 East Main St.
Meriden, CT 06450
203-237-2044
FAX 203-237-4066

127 Washington Ave.
North Haven, CT
06473
203-239-0468
FAX 203-234-0164

... Research Dr.
Milford, CT 06460
203-882-5110
FAX 203-882-5124

133 Kennedy Drive,
Suite 202
Torrington, CT 06790
860 482-4552
Fax 860 489-4647

L... d Medical
...

260 Silas Deane Hwy
Wethersfield, CT
6109
60-571-7253

060 Day Hill Road
Windsor, CT 06095
50-688-8383

55 Ellington Rd
ast Hartford, CT
5108
50-569-1100

53 West Middle
urnpike
anchester, CT 06040
50-646-8595

31 Albany Avenue
est Hartford, CT
117
0-232-4891

3 South Quaker La
nwood, CT 06110
0-236-5908

pmeadow Road
or ... 06001
... ...111

Name: Jorge Lopez SSN: 047 96 1633 Exam date: 11/13/02
Employer Contact _____ Employer Telephone: ___-___-____
Employer: Asbesto-O-Tech
Employer Address: _____

Report status: ☒ Final report ☐ Preliminary report

This letter confirms completion of a surveillance evaluation of the above individual. This included:

☐ An occupational and environmental history and physical examination with particular attention to safe work practices and occupational exposures, the use of respirators and other personal protective equipment. This examination complies with the OSHA Standards for Hazardous Waste Operations (1910.120) and Respiratory Protection (1910.134).

☐ Laboratory testing

N = test result was normal AB = test result was abnormal ND = test was not done

	N	AB	ND		N	AB	ND*
Urine Dip Stick				RBC Cholinesterase			
Complete Blood Count				Serum Cholinesterase			
Chemistry Profile				Heavy Metal Screen (Urine)			
Pulmonary Function Test				Arsenic (Urine)			
EKG				Mercury (Urine)			
Audiogram				Lead (blood)	5 mcg/dl (normal < 25)		
Chest X-Ray				ZPP (blood)	26 mcg/dl (normal < 47)		
PCB Level				Cadmium (blood)	___ mcg/l (normal < 5)		
				Cadmium (urine)	___ mcg/gCr (normal <3)		
				Beta 2 microglobulin	___ mcg/gCr (normal <300)		

Significant changes in lab results since last seen: ☐ Yes, ☐ No, ☒ N/A

☐ The following conditions were identified which place the employee at increased risk of adverse health effects from hazardous waste work: ☒ None,
Findings: _____

☐ The following limitations are indicated on personal protective equipment and/or assigned work: ☒ None
Findings: _____

☐ Recommended supervisor/employer actions based on this examination: ☐ None
Findings: _____

☒ Based on the examination, this employee shows no evidence of toxicity due to work exposures.

The employee has been informed of the medical examination results and any recommended follow up with regard to both occupational and general medical conditions. In accordance with the Standard, a copy of this opinion is being forwarded to the employee. Also in accordance with the Standard, findings and diagnoses unrelated to occupational exposure may not be communicated with the employer. Thank you for your confidence in referring this patient to us.

PETER A. HUNT PAC
Occupational Health Care Practitioner

Peter A. Hunt PAC
Signature and Date
11/13/02

Cc: Employee

7-01

RESPIRATOR FIT TEST

DATE: 5·8·02

EMPLOYEE NAME: Jorge Lopez

SOCIAL SECURITY # 047·96·1633

FIT TEST: PASS ✓

FAIL _____ REASON: _____

½ FACE NORTH

NAME OF PERSON CONDUCTING FIT TEST: [signature]

I have read and fully understand the respiratory protection program manual. I have also received a fit test using the procedures in Appendix A of the manual.

EMPLOYEE SIGNATURE [signature]

CERT# LS-100 - 39

CHEMSCOPE TRAINING DIVISION

STATEMENT OF COMPLETION

This is to state that

Jorge L. Lopez

Has successfully completed the
State of Connecticut's
HUD-approved training in

**LEAD-SAFE WORK PRACTICES FOR
PAINTING, REMODELING, AND MAINTENANCE**

EXAMINATION DATE: 11/03/01
EXPIRATION DATE: N/A

Ronald D. Arena
Training Director

CHEM SCOPE, INC.
15 Moulthrop Street
North Haven, CT 06473
(203) 865-5605

EMSL Analytical, Inc.
107 Haddon Ave., Westmont, NJ 08108
one: (856) 858-4800 Fax: (856) 858-4960 Email: sslegel@EMSL.com

EMSL

Attn: Asbest-O-Tech
355 Sackett Point Road
Suite 4
North Haven, CT 06473
Fax: (203) 288-9565 Phone: 203-234-7373
Project: A-2553 / US AR - 200 WINTERGREEN, N.H.

Customer ID: ASBE99
Customer PO:
Received: 02/05/03 11:09 AM
EMSL Order: 040301737
EMSL Project ID:
Analysis Date 2/7/2003

Fiber Analysis of Air Samples via NIOSH 7400, Revision 3, Issue 2, 8/15/94 (with 8 Hour Time Weighted Average)

Other Samples

Sample	Activity	Sample Date	Start Time	Stop Time	Rate (l/min)	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/ mm²	Fibers/ cc
104-2553	FIELD BLANK	1/31/2003					<5.5	100		<7.0	
040301737-0005		Field Blank.									

Samples for Aurelio Rivera

le	Activity	Sample Date	Start Time	Stop Time	Rate (l/min)	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/ mm²	Fibers/ cc
102-2553		1/31/2003	7:45	8:15	2.6	78.00	<5.5	100	0.035	<7.0	<0.035
040301737-0003		Included in TWA.									
103-2553		1/31/2003					<5.5	100		<7.0	
040301737-0004		Included in TWA. Stop time not recorded on cassette or COC.									

Summary for Aurelio Rivera on 1/31/2003 — 8 Hour Time-Weighted Average: #Error Fibers/cc

Samples for Jorge Lopez

Sample	Activity	Sample Date	Start Time	Stop Time	Rate (l/min)	Volume	Fibers	Fields	LOD (fib/cc)	Fibers/ mm²	Fibers/ cc
100-2553		1/30/2003	10:15	10:45	2.6	78.00	<5.5	100	0.035	<7.0	<0.035
040301737-0001		Included in TWA.									
101-2553		1/30/2003	10:45	15:20	2.6	715.00	<5.5	100	0.004	<7.0	<0.004
040301737-0002		Included in TWA.									

Summary for Jorge Lopez on 1/30/2003 — 8 Hour Time-Weighted Average: 0.004 Fibers/cc

Marques Stanard
Analyst

Stephen Siegel, CIH
or other approved signatory

...it of detection is 7 fibers/mm². The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report ...elates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL.
Analysis performed by EMSL Westmont (NY State ELAP #10872)

CHEMSCOPE, INC.

04030737

Form FL-22 Rev. 2/95

AIR SAMPLING / NIOSH METHOD 7400 SAMPLE RECORD

Asbest- O-Tech

5Day PCM

Faxed____
Called____
Logged____

Sample Source USAR- 200 Wintergreen N.H. Job # A-2553

Sampled by O.H. Date Sampled 01/30/03 Customer Name A-O-T

Analyst_____ Date Received_____ Date Tested_____

Sample #/ Description	Time Start	Time End	Flow l/m Start	Flow l/m End	Liters	f/ flds	f/ mm2	f/cc	LOD f/cc
100-2553 Excursion personal Sample Jorge Lopez Removal Glue Dobs on Block ½ Face APR 01-30-03	10 15	10 45	2.6	2.6					
101-2553 personal Sample Jorge Lopez Removal Glue Dobs on Block ½ Face APR 01-30-03	10 45	3 20	2.6	2.6					
102-2553 Excursion personal Sample Aurelio Rivera Glue Dobs - Final Clean ½ Face APR 01-31-03	7 45	8 15	2.6	2.6					
103-2553 personal Sample Aurelio Rivera Glue Dobs - Final Clean ½ Face APR 01-31-03	8 15		2.6						
104-2553 Field Blank									

03 FEB -5 AM 11:09

Report Reviewed by_____ Date_____ Blank(s) Received? Y____ N____

Field Blanks {
Laboratory Blanks {

Reference Slide #:

FOR FINALS:
Work Area/ Scope of Work:

Ft_____ Linear Ft_____

Visual: Pass_____ Fail_____

Time Out:_____

Time In:_____

Degrees C:_____

mmHg:_____

EMSL Analytical
3 Cooper St., Westmont, NJ 08108
Phone: (856) 858-4400 Fax: (856) 858-9551 Email: gmiller@emsl.com

EMSL

Attn: Asbest-O-Tech
355 Sackett Point Road
Suite 4
North Haven, CT 06473
Fax: (203) 288-9565 Phone: 203-234-7373
Project: Job# A-2553 /U.S.A.R 200 Wintergreen Ave.

Customer ID: ASBE99
Customer PO:
Received: 02/10/03 3:55 PM
EMSL Order: 200301225
EMSL Project ID:

Lead In Air by Flame AAS (NIOSH 7082)

Client Sample Description	Lab ID	Analyzed	Volume	Lead Concentration
200-2553	0001	2/11/03	962 L	<4.2 µg/m³
201-2553	0002	2/11/03	1183 L	<3.4 µg/m³
202-2553	0003	2/11/03	1118 L	<3.6 µg/m³

Gerold J. Miller, Ph.D.
Laboratory Director
NJ-NELAP: 04653
AIHA: 100194
or other approved signatory

Reporting limit is 4 ug/filter. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA, unless specifically indicated otherwise in the comment section. The laboratory is not responsible for data reported in units of volume which is dependent on volume collected by non-laboratory personnel. This report may not be reproduced except in full, without written approval by EMSL.
ACCREDITATIONS: AIHA Environmental Lead Laboratory Approval Program # 100194

L0030122S

Rush 2 days per Gary Hoffman

Form FL-22 Rev. 2/95

AIR SAMPLING / [redacted]

Lead sample record

Asbest-o-Tech - North Haven

Faxed____
Called____
Logged____

Sample Source U.S.A.R. 200 Wintergreen Rd Hamden CT. Job # A-2533

Sampled by A. Hernandez Date Sampled 1-27-03 Customer Name Asbest-o-Tech.

Analyst_____ Date Received_____ Date Tested_____

Sample #/ Description	Time Start	Time End	Flow l/m Start	Flow l/m End	Liters	f/flds	f/mm2	f/cc	LOD f/cc
200-2533 Personal sample Lead. Aurelio Rivera Level B Shooting Range Prep. 1-27-03	900	310	2.6	2.6					
201-2533 Personal sample Lead. Cheo San Mauro Shooting range Prep 1-28-03	740	315	2.6	2.6					
202-2533 Personal sample Lead Jorge Lopez Shooting Range Prep Demo. 1-29-03	810	300	2.6	2.6					

Report Reviewed by_____ Date_____ Blank(s) Received? Y____N____

Field Blanks {
Laboratory Blanks {

Reference Slide #:

FOR FINALS:
Work Area/ Scope of Work:

Time Out:_____
Time In:_____
Degrees C:_____
mmHg:_____

1 Ft_____ Linear Ft_____

Visual: Pass_____ Fail_____

Rec'd Lab 2/5/03 [illegible] - NO TAT

CERTIFICATE OF ACHIEVEMENT

This certifies that

Jerry Hunt

has successfully completed the

8 Hour Asbestos Project Monitor Refresher Training

conducted by
ATC Associates Inc.
39 Spruce Street
East Longmeadow, MA 01028
(413) 525-1198

Edward Kolodziej
Principal Instructor

Gregory J. Morrell
Regional Manager

May 1, 2002
Date of Course

PMR-0357
Certificate Number

May 1, 2003
Expiration Date

May 1, 2002
Examination Date

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT-PROJECT MONITOR

LICENSE NO.
000466
CURRENT THROUGH
07/31/03
VALIDATION NO.
02-719463

JERRY E. HUNT

SIGNATURE

COMMISSIONER DEPT. OF PUBLIC HEALTH

State of Connecticut, Department of Public Health

Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

EAGLE ENVIRONMENTAL, INC.

LOCATED AT 481 North Main Street IN Bristol, CT 06010

AND REGISTERED IN THE NAME OF Peter Folino

THIS CERTIFICATE IS ISSUED IN THE NAME OF Peter Folino WHO HAS BEEN DESIGNATED BY THE REGISTERED OWNER/AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

Asbestos

Air - Fiber Counting (PCM)

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES December 31, 2004 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH

DATED AT HARTFORD, CONNECTICUT, THIS 2nd DAY OF January, 2003

PH- 0237

Thomas H. Gargalek

DIRECTOR, DIVISION OF ENVIRONMENTAL HEALTH

APPENDIX C
Asbestos Abatement Project Monitoring Report, Eagle Environmental, Inc., February 26, 2003

EAGLE ENVIRONMENTAL, INC.

ASBESTOS ABATEMENT PROJECT MONITORING REPORT
FOR THE
USARC FIRING RANGE
200 WINTERGREEN AVENUE
NEW HAVEN, CONNECTICUT

PROVIDED TO

DTC
556 WASHINGTON AVENUE
NORTH HAVEN, CONNECTICUT

PROVIDED BY

EAGLE ENVIRONMENTAL, INC.
481 NORTH MAIN STREET
BRISTOL, CONNECTICUT 06010

DATE: FEBRUARY 26, 2003

481 NORTH MAIN STREET • UNIT 11 • BRISTOL, CT 06010
PHONE (860) 589-8257 •FAX (860) 585-7034

ASBESTOS ABATEMENT PROJECT MONITORING

INTRODUCTION:

Eagle Environmental, Inc., was retained to provide asbestos abatement project monitoring services at 200 Wintergreen Avenue in New Haven, Connecticut. Asbestos abatement was necessary due to the planned decontamination of the firing range at the building. Asbestos abatement was limited to the firing range only.

Eagle Environmental, Inc prepared project specifications and bid documents. The Asbestos Abatement Contractor was Asbestos – O – Tech, Inc of North Haven, Connecticut.

Prior to the commencement of abatement activities, preabatement air samples were collected by Eagle Environmental, Inc. Preabatement samples establish the ambient, or existing, airborne fiber concentrations prior to the start of any abatement actions. Upon commencement of abatement activities, background air samples were collected. These background air samples were collected at various locations such as the entrance to the worker decontamination facility, outside critical barriers, and at the negative air exhaust. These samples were collected and analyzed in order to monitor the air quality outside the containment during the abatement process. Comparisons were then made between the preabatement samples and the background samples. This was done in order to assess the air quality at the work site during the abatement project. Following the completion of final cleaning and encapsulation of the work area, aggressive final air clearance sampling was performed inside the work area to comply with State and Federal regulatory requirements.

In addition to air sampling, Eagle Environmental, Inc. performed job site inspections. Prior to the beginning of removal activities, a precommencement inspection was conducted. This was to document that work area preparations were performed in accordance with the written technical specifications. During removal activities, progress inspections were conducted inside the work area to assess work progress and work procedures for adherence to contract specifications. Presealant inspections were also conducted to verify that the work area met the visible dust criteria prior to conducting final air clearance. A post-teardown inspection was also performed to ensure that all ACM scheduled for removal was removed and no residual ACM remained behind the containment barriers.

SCOPE OF WORK:

The scope of the abatement work included the removal and disposal of the ACM listed for each of the following locations:

LOCATION	ACM REMOVED	QUANTITY
Firing Range – Main room	Olive adhesive associated with noise alternating board	448 SF
Firing Range – behind bullet trap	Olive adhesive associated with noise alternating board	205 SF

EAGLE ENVIRONMENTAL, INC.

PROJECT MONITORING LOG

Date: JANUARY 27, 2003 **Eagle Project No.:** 02-105.11
Abatement Site:
Work Area: FIRING RANGE - AREA #1
Abatement Contractor: ASBEST-O-TECH, Inc.
Abatement Supervisor: JERRY HOFFMAN
Eagle Project Monitor: PETER J. FOLINO **State License No.:** 000055

FIELD NOTES

TIME **DESCRIPTION**

0925- P. Folino (PF) arrives on site. PF signs in on visitor sign-in log at entrance to building.
0930- PF proceeds to firing range. Asbest-O-Tech is on site and is currently pre-cleaning floor and prepping. Critical barrier, flapped, is over entrance to range. P.F speaks with Oscar Hernandez (OH) who is acting supervisor while Jerry Hoffman (JH) is off-site. PF and OH conduct a walk through of the work area. Crew is HEPA vacuuming floors and hanging poly. One negative air machine is running and is exhausting outside of building through clean air intake for firing range. All air handling equipment and electrical components are de-energized as indicated by O.H. Equipment needs to be locked-out and tagged. Firing station will be partially dismantled to access ACM. Remaining firing stations will be covered. Moveable objects in Room 1-01 will be relocated to opposite end of range for lead decontamination by Shaw, Jt.
0100: PF reviews crews asbestos paperwork. One worker, Jorge Lopez, has expired license (expired 12-31-02). Three workers need original training certs on site. Lead training not on site but is on the way with JH. PF notifies OH that crew should be wearing appropriate PPE due to assumption of lead contamination in the work area. Crew dons protective

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PHONE (860) 589-8257 • FAX (860) 585-7034

EAGLE ENVIRONMENTAL, INC.

PROJECT MONITORING LOG

Date: 1-29-03 **Eagle Project No.:** 02-105.11
Abatement Site: USARC 200 Wintergreen Av.
Work Area: Basement Shooting Range
Abatement Contractor: Abest-o-Tech
Abatement Supervisor: Oscar Hernandez
Eagle Project Monitor: Jerry Hunt **State License No.:** 000466

FIELD NOTES

TIME	DESCRIPTION
07:30	Eagle on site with Jerry Hunt, Ivan Sokolov.
07:45	Waiting on crew.
07:55	Crew arrived. 1 supervisor 2 workers
08:00	Talk to Supervisor about today work. He said that They finish prep and Then Tear down the noise attenuating board. and stack in the other Area.
8:10	I look over containment I found that they were 2 layer of 4mill on one wall and cover some openings with critical Barriers. Need Asbestos sign outside of decon entrances
9:30	Preabatement Inspection on ~~Area I~~ Containment Passed They can start abatement.
9:45	Pulling front clips off of noise attenuating board to release board from wall. Then by prying the board out it slip over clips that stay in the wall and no adhesive is on the board. Noise attenuating board is then lowered to a little cart and rolled to other side. and stack for lead personel.
10:05	Pre-calibrated pumps for perimeter samples one outside of Decon one down the Hallway and one out in the neg-air exhaust of neg-air machine #1.
11:00	Noise attenuating board is being remove from walls.
12:00	Post-calibrated pumps and switch out new cassettes
12:10	Lunch

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EAGLE ENVIRONMENTAL, INC.

PREABATEMENT CHECKLIST

Eagle Project No: 02-105.11 Date: 1-29-03

Eagle Job Name: DTC, Inc. Location: USARC 200 Wintergreen Ave. New Haven, CT

Contractor: Asbest-O-Tech Supervisor: Oscar Hernandez

Project Location: Basement Shooting Range

Scope of Work: 756 sq ft of olive adhesive associated with green noise attenuating board.

(Removal) Encapsulation Encasement Enclosure Glovebag

CHECKLIST: (Satisfactory — Yes or No or N/A)

1.Warning Signs	Yes	Log Book	Yes
2.Entry Secured	Yes	Release Forms	Yes
3.Two Layers of 6 mil Poly		Copy of Specifications	Yes
All Penetrations	Yes	Copies of Regulations	Yes
All Fixed Objects	Yes		
Walls	Yes	Notes:	
Ceilings			
4.Spray Applied Poly			
Walls	N/A		
Ceilings	N/A		
5.Decontamination Facilities			
Personnel	Yes		
Equipment/Waste	Yes		
Shower	Yes		
Proper filtration system	Yes		
6.Temporary Lighting	Yes		
7.Electrical System Off	Yes		
8.HVAC System Off	Yes		
9.Communication System	N/A		
10.Emergency Warning System	N/A		
11.Emergency Exit	N/A		
12.Negative Air			
Smoke Test	Yes		
4 Air Changes/hr.	Yes		
No. of Units	2		
Manometer Reading	N/A		
13. Type "C" System with Alarms	N/A		

Circle One

(Pass) Fail

Name: Jerry Hunt Signature:

EAGLE ENVIRONMENTAL, INC.

Phase Contrast Microscopy Air Sampling Data Sheet

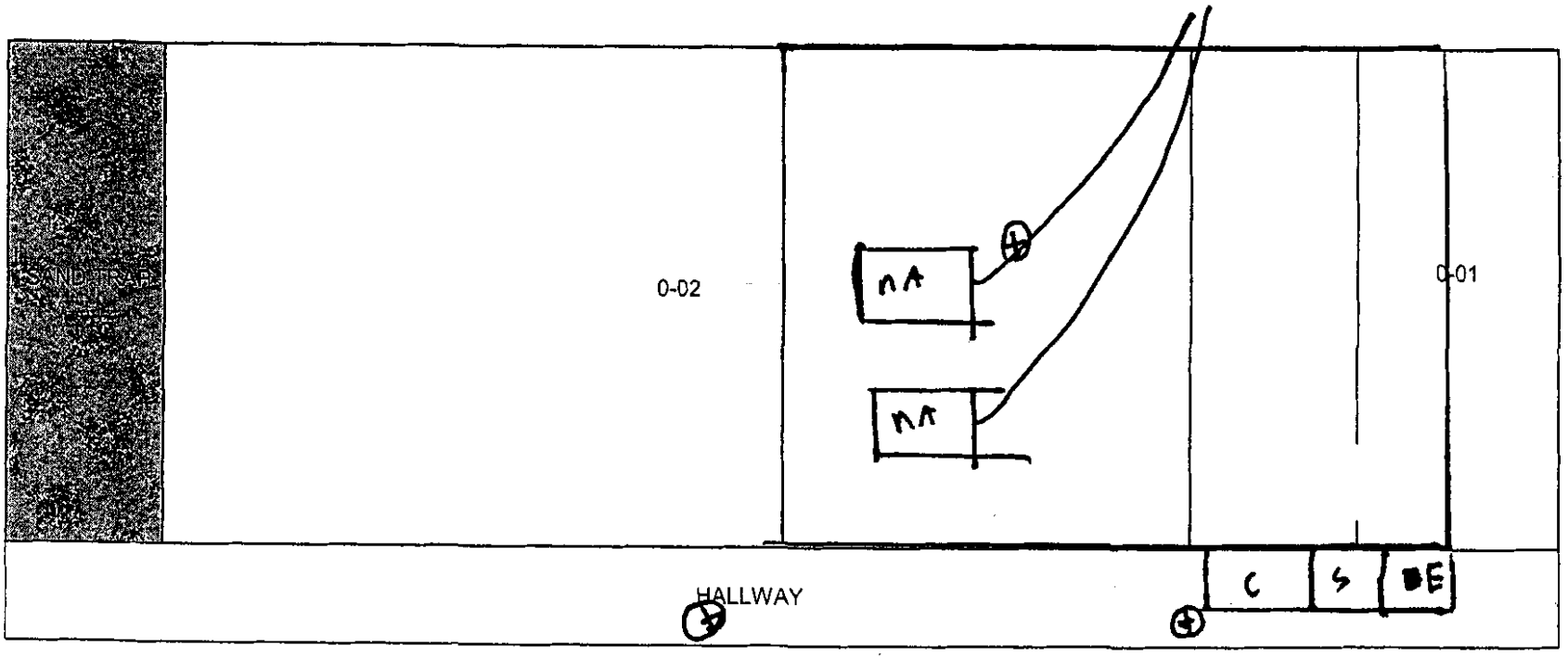
PROJECT NAME: DTC, Inc. — USARC
EAGLE PROJECT NO 02-105.11
PROJECT LOCATION: USARC 200 Wintergreen Avenue New Haven, CT
SAMPLING DATE: 1-29-03
WORK AREA DESIGNATION: Basement Shooting Range
PROJECT MONITOR: Jerry Hunt
MICROSCOPE#: 04
PROJECT MONITORING LICENSE: 000466

Sample Number	Sample Location	Project Activity	Sample Time (Minutes) On	Off	Min	Flow Rate (Liters/Minute) Pre	Post	Average Flow Rate (Liters/Minute)	Total Volume (Liters)	Fiber Count (fib/field)	Concentration (Fibers/cc)
1-29-JH-06	Outside Decon	Removal	12pm	15:00	180	10	10	10	1800	19/100	.0052
1-29-JH-07	Hallway	Removal	12pm	15:00	180	10	10	10	1800	12/100	.0033
1-29-JH-08	Neg. Air Machine Exhaust	Removal	12pm	15:00	180	10	10	10	1800	5/100	.0014
1-29-JH-04	Blank	—								0/100	
1-29-JH 05	Blank	—								0/100	
1-29 JH-08	Duplicate Count									4/100	

Chain of Custody and Sample Receiving Log

Samples Analyzed By: [signature] Date: 1-30-03 Time: Am AAR# 8405
Samples Collected By: Jerry Hunt Date: 1-29-03 Time: PM
Samples Relinquished By: Date: Time:
Samples Received By: Date: Time:
Results Review By: [signature] Date: 2.04.03 Time:

P:\Admin\Forms2000\PCMAIR.WPD



Legend
C - clean Room
S - shower
E - Equipment Room
nA - neg. air machine
⊕ - sample location.

N.T.S.

EAGLE ENVIRONMENTAL, INC. 481 NORTH MAIN STREET BRISTOL, CONNECTICUT 06010 Phone: (860) 589-8257	**FIRING RANGE ABATEMENT PLAN** **200 WINTERGREEN AVENUE** **NEW HAVEN, CONNECTICUT**	**ASB-01** 11/7/02 | 02-172

TIME	DESCRIPTION
11:50	Crew showering out for lunch.
12:00	Post-calibrated pumps and put new cassettes sampleon. ~~Pump~~
12:35	Back to work in containment.
12:45	Prepping and reading this morning samples
13:50	finish Reading slides all samples were below the .01 fiber.
14:00	Abatement continues in containment.
15:00	Abatement part of work is done in Area 1 now cleaning begins
15:00	Post-calibrated pumps and collected samples.
15:15	Crew showering out of containment
15:30	Left site

EAGLE ENVIRONMENTAL, INC.

WORK AREA AND CONTAINMENT DAILY CHECK LIST

WORK AREA INFORMATION

Date: 1-30-03 Eagle Project Number: 02-105.11

Building: 200 Wintergreen Floor: Basement

Work Area: Firing Range

CONTAINMENT

1) Breaches in containment: Yes____ No ✓: If yes where_____

Corrective actions taken_____

2) Manometer reading: — inches of water
3) Smoke test containment: Yes ✓ No:_____
4) All ingresses to the work area posted with warning signs: Yes ✓ No:_____
5) Wall poly intact: Yes ✓ No:_____
6) Number of negative air machines running: 2
7) Number of back up negative air machines in containment: 0
8) Negative air machines exhausting outside the building: Yes ✓ No_____
9) Airless sprayer or water in work area operable: Yes ✓ No_____
10) All electrical devices equipped with GFCI: Yes ✓ No_____
11) Auxiliary lighting sufficient: Yes ✓ No_____

NOTES:_____

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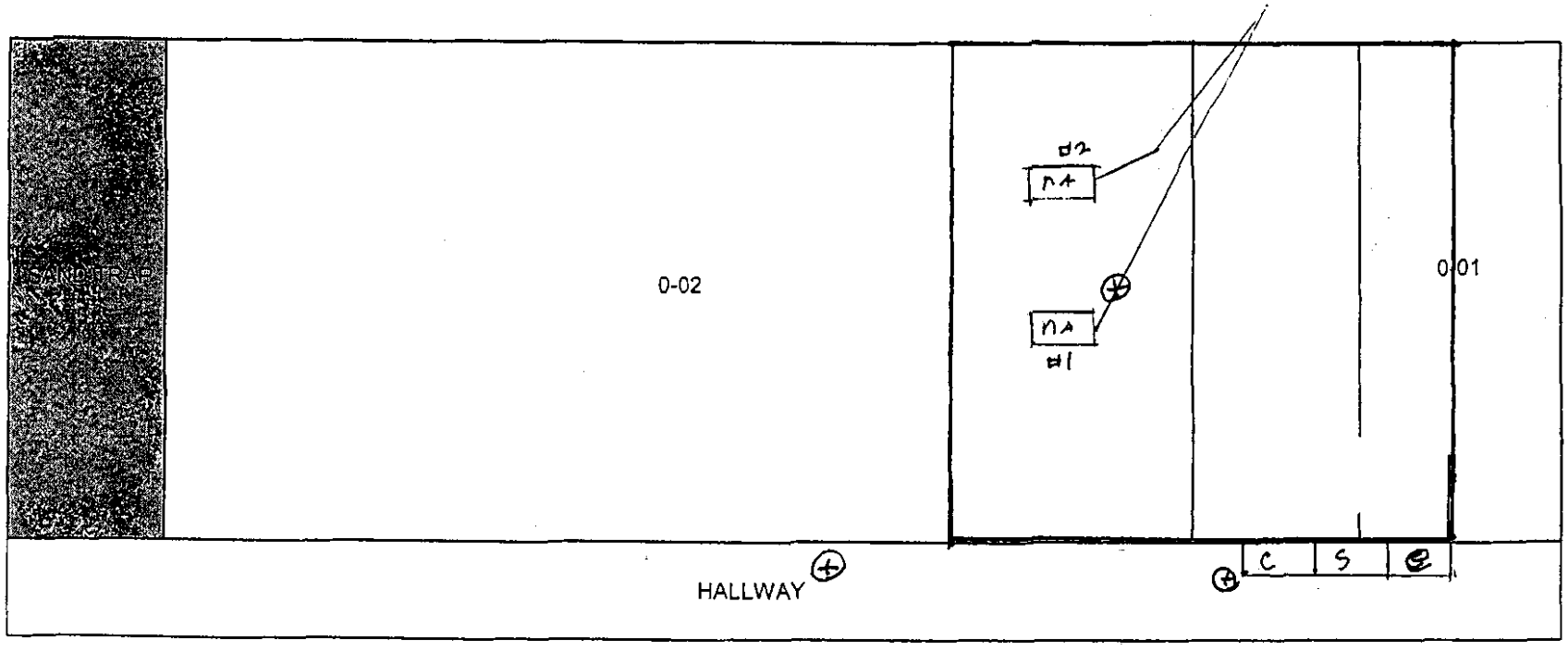
PHONE (860) 589-8257 • FAX (860) 585-7024



Legend
C - Clean Room
S - Shower
E - equipment Room
NA - Neg-air Machine
⊕ - sample location

N.T.S.

EAGLE ENVIRONMENTAL, INC. 481 NORTH MAIN STREET BRISTOL, CONNECTICUT 06010 Phone: (860) 589-8257	**FIRING RANGE ABATEMENT PLAN** **200 WINTERGREEN AVENUE** **NEW HAVEN, CONNECTICUT**	**ASB-01** 11/7/02 | 02-172

TIME	DESCRIPTION
11:00	Prepping and Reading ~~yesterday~~ and this morning samples.
11:30	Crew Took Lunch
11:50	suiting up to collect clearance samples.
12:00	Post-calibrated pumps and collected clearance samples.
12:10	Prepping and reading samples
13:00	All clearance samples were read all passed. All were below .01 f/cm³.
13:45	Preabatement Inspection on second area complete area still need water for shower and filtration on shower stall. Poly is up on walls, 3 stage Decon is up.
14:10	Prepping continues in Area 2 behind sandtrap,
15:15	Crew cleaning area up
15:30	left site

EAGLE ENVIRONMENTAL, INC.

Phase Contrast Microscopy Air Sampling Data Sheet

PROJECT NAME: DTC: USARC 200 Wintergreen Ave
PROJECT LOCATION: New Haven CT
WORK AREA DESIGNATION: Firing Range Basement
MICROSCOPE#: 04

EAGLE PROJECT NO 02-105, 11
SAMPLING DATE: 1-31-03
PROJECT MONITOR: Jer
PROJECT MONITORING LICENSE:

Sample Number	Sample Location	Project Activity	Sample Time (Minutes) On	Off	Min	Flow Rate (Liters/Minute) Pre	Post	Average Flow Rate (Liters/Minute)	Total Volume (Liters)	Fiber Count (Fiber/Field)	Concentration (Fibers/cc)
1-31 JH 01	outside Decon	cleaning	7:55	9:45	110	10	10	10	1100	15/100	.0067
1-31 JH 02	Hallway		7:55	9:45	110	10	10	10	1100	12/100	.0053
1-31 JH 03	#1 Neg-Air Exhaust		7:45	9:45	110	10	10	10	1100	7/100	.0031
1-31 JH 9	Blank	—								1/100	
1-31 JH 10	Blank	—								0/100	
1-31 JH 02	Duplicate Count									13/100	

Chain of Custody and Sample Receiving Log

Samples Analyzed By: [signature] Date: 1-31-03 Time: PM AAR# 8405
Samples Collected By: [signature] Date: 1-31-03 Time: Am
Samples Relinquished By: Date: Time:
Samples Received By: Date: Time:
Results Review By: [signature] Date: 2-4-03 Time:

P:\Admin\Forms2000\PCMAIR.WPD

WASTE LOAD OUT FACILITY

1) Number of chambers: 3
2) Posted with warning signs: Yes ✓ No _____
3) Chambers sealed: Yes _____ No ✓
4) General clean-up required NO

NOTES: _____

Project Monitor Signature: [signature] Date: 1-31-03

License No. 000466

P:\Admin\Forms2000\wasteloadout.doc

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APPENDIX D
Material Safety Data Sheets

Material Safety Data Sheet

Issue Date: March 20, 1991; Revisions: Rev 1: 01/01/94; Rev 2: 05/01/97; Rev 3: 06/09/97, Rev 4: 01/28/98; Rev 5: 09/22/00; Rev 6: 01/29/02

Product Name: D-Lead® Equipment Cleaner

Product Code #: 3102ES

Product Information: (414) 962-5323
Manufacturer: ESCA Tech, Inc.
3747 North Booth Street
Milwaukee, WI 53212
Fax: (414) 962-7003

Transportation Emergency Phone:
1-800-535-5053 Info Trac
(24 hours, during transportation only)

email: eti@execpc.com

Section 1: Material Identification

Proper Shipping Name:	(49 CFR 172.101) Compound, Cleaning Liquid, N.O.S.	
D.O.T. Hazard Name:	(49 CFR 172.101) None	
D.O.T. ID No.:	Same as above	
D.O.T. Hazard Class:	Same as above	
RCRA Hazard Class:	(40 CFR 261) (As Received) None	
E.P.A. Priority Pollutants:	(40 CFR 401.15) None	
Generic Description:	Liquid, concentrated alkaline detergent	
NFPA: None	Health (NFPA): N.A.	Flammability (NFPA): N.A.
Reactivity (NFPA): N.A.	CAS No.: Mixture	OSHA Subpart Z. No
OSHA 1910.119: No	SARA Title III, Sec.312; 313; 372: Yes	TPQ: No
Reportable Quantity: None	State Lists: None	Proposition 65: No
Reproductive Hazard: No	Carcinogen: No	WHMIS (Canada): No
Extremely Hazardous Substances List : No		

Section 2: Ingredients and Hazards

Hazardous Ingredients

Ingredient CAS Number	Max %	SARA applies			Air contaminant levels			Skin Agent
	w/w	312	313	372	TWA/TLV (ppm)	STIEL (ppm)	CEILING (ppm)	
Ethylene Glycol Monobutyl Ether (CAS#: 111-76-2)	4.8	Y	Y	Y	25	None	None	OSHA - Y ACGIH - Y

Other Recommended Limits: None ♦ Contains: Nonionic surfactants, complexing alkali and builders. Does not contain EDTA, chelates, phosphates, stearates, solvents, free alkalies, abrasives, citrates, tartrates, or acetates. Contains 2.0 % silicates. All ingredients are listed with EPA TSCA Inventory of Chemical Substances.

Section 3: Physical Data

Boiling Point:	208° F
Vapor Pressure:	17mm Hg.
Vapor Density (Air = 1):	>1, same as water
Melting Point:	28° F, -2° C
Specific Gravity (H_2O = 1):	1.033 (8.60 lbs./gal.)
Evaporation Rate (Butyl Acetate = 1):	0.36, (Slower)
Solubility in Water:	Infinite
Appearance and Odor:	Purple liquid, moderately viscous, characteristic odor
pH:	11.5 to 11.8 - undiluted; 10.5 at a 4:1 dilution with water

Section 4: Fire and Explosion Hazard Data

Flash Point (method used): NA ◆ Flammable Limits: Material will not burn ◆ LEL: NA ◆ UEL: NA ◆ Extinguishing Media: Material is not flammable ◆ Special Fire Procedures: None ◆ Unusual Hazards: None Material will not support combustion.

Section 5: Reactivity Data

Stable/Unstable: Stable ◆ Conditions to Avoid: Do not mix with other chemicals ◆ Hazardous Decomposition/Byproducts: Thermal decomposition may produce carbon monoxide ◆ Hazardous Polymerization: Will not occur ◆ Incompatibility: Strong oxidizing agent such as bleach. Should not be mixed with other chemicals.

Section 6: Health Hazard Data

Routes of entry:	Ingestion possible. No inhalation normally. Eye contact possible if splashed.
Acute/Chronic Health Effects:	**INHALATION:** Does not generate vapors at normal temperatures of use. **SKIN:** May defat the skin. **INGESTION:** Nausea, dizziness, fatigue.
Carcinogenicity:	None known. NTP? No IARC Monographs? No OSHA Regulated? No
Signs/Symptoms of Exposure:	SKIN: De-fatting of the skin. EYES: Burning. ORAL: Nausea, dizziness, fatigue.
Emergency and First Aid:	SKIN: Remove from source. Rinse with water. Treat as a caustic burn. EYES: Flush thoroughly with cool water for 15 minutes, lifting lids. Get medical attention. Treat as a caustic burn. INHALATION: Remove to fresh air. ORAL: Do not induce vomiting, keep quiet, get medical attention immediately. Treat as alkaline detergent.
Medical Condition Generally Aggravated by Exposure:	None known.

Section 7: Spill, Leak, and Disposal Procedures

Steps to be Taken In Case Material is Released or Spilled: Stop leak at source. Small spills can be mopped up, and floor rinsed with water. For large spills, stop leak at source and absorb onto inert medium for disposal. Collect in an approved container. Material is an alkaline detergent, do not release to streams, lakes, storm sewer, etc. ◆ Waste Disposal Method: According to all local, state and federal regulations.

Section 8: Special Protection Information

Respiratory Protection: None required ◆ Ventilation: Not needed ◆ Protective Gloves: Neoprene, nitrile, natural rubber or PVC ● Eye Protection: Chemical safety goggles or faceshield ◆ Other Protective Clothing or Equipment: Eye wash and safety shower, impervious clothing ◆ Work/Hygienic Practices: Wash with soap and water. Discard contaminated clothing according to state or EPA regulations.

Section 9: Special Precautions and Comments

Storage Requirements: Store above 32°F. Keep from freezing. If frozen, product should thaw without adverse effects. Product may appear cloudy. Keep out of extreme heat. Generally stored at temperatures between 40° and 90°F, out of direct sunlight. Heat buildup will cause product to cloud and separate irreversibly.

Comments: Product has a shelf life of 9-12 months. Keep containers tightly closed when not in use. Keep out of reach of children. For professional use only. After use, solution will contain dissolved and suspended heavy metals along with fats, oils and greases. Discharge waste water in accordance with all applicable local, state and federal regulations and in accordance with all water discharge permits.

ESCA Tech, Inc. Disclaimer: "The information and recommendations presented herein are based on sources believed to be reliable as of the date hereof. ESCA Tech makes no representation as to the completeness of accuracy thereof. It is the user's responsibility to determine the product's suitability for its intended use, the product's safe use, and the product's proper disposal. No representations or warranties not expressly set forth herein are made hereunder, whether express or implied by operation of law or otherwise, including, but not limited to any implied warranties of MERCHANTABILITY OR FITNESS. ESCA Tech neither assumes or authorizes any other person to assume for it, any other or ADDITIONAL LIABILITY OR RESPONSIBILITY resulting from the use of, or reliance upon, this information."

D:\My Documents\Safety\SDAF EQUIPMNT\SDS\Equip5 pd

ESCA Tech, Inc. ◆ 3747 North Booth Street ◆ Milwaukee, WI 53212 U.S.A.
Phone (414) 962-5323 ● Fax (414) 962-7003

ENFORCER Products, Inc.
P.O. Box 1060
Cartersville, GA 30120
1-888-805-HELP

Material Safety Data Sheet
AND SAFE HANDLING & DISPOSAL INFORMATION

Section 1. Chemical Product and Company Identification

Product name	**All Purpose Cleaner & Degreaser**
Product Code	**HD0860-32/5G** **CN0860-32/5G**
Formula No.	**F0567**
Date of Issue	**03/20/02** **Version** 1.00
Emergency telephone number	For MSDS Information: Compliance Services, 404 352 1680 For a Medical Emergency: Toll Free INFOTRAC, 877 541 2016 (Calls Recorded) For a Transportation Emergency: Toll Free CHEMTREC, 800 424 9300 (Calls Recorded)
Prepared by	Acuity Specialty Products Group 1420 Seaboard Industrial Blvd. Atlanta, GA 30318

Section 2. Composition, Information on Ingredients

Name of Hazardous Ingredients	CAS #	% by Weight	Exposure Limits
1) OSHA's Hazard Communication Standard (29 CFR 1910.1200) does not require the listing of any ingredient for this product.			

Section 3. Hazards Identification

Acute Effects **Routes of Entry** Not applicable.

Eyes Slightly hazardous in case of eye contact (irritant).
Skin Non-irritant for skin.
Inhalation Exposure unlikely in this form.
Ingestion Non-hazardous in case of ingestion.

HMIS

[illegible]	1
Fire Hazard	0
[illegible]	0
Personal Protection	B

Chronic Effects Repeated or prolonged exposure is not known to aggravate medical condition.
Carcinogenic Effects Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

See Toxicological Information (section 11)

Section 4. First Aid Measures

Eye Contact Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
Skin Contact Rinse with plenty of running water. Get medical attention if irritation develops.
Inhalation Exposure via inhalation is unlikely in this form.
Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. If large quantities of this material are swallowed, call a physician immediately.

Section 5. Fire Fighting Measures

Flash Point Not applicable. **Flammable Limits** Not applicable.
Flammability Not applicable. **Fire Hazard** Not applicable.
Fire-Fighting Procedures Not applicable.

Section 6. Accidental Release Measures

Spill Clean up Absorb with an inert material and place in an appropriate waste disposal container.

Continued on Next Page

Section 7. Handling and Storage

Handling Do not ingest. Avoid contact with eyes.
Storage Keep container tightly closed. Store above 40°F and below 120°F.

Section 8. Exposure Controls, Personal Protection

Personal Protection

Eyes Safety glasses.
Body No special protection is required.
Respiratory Not applicable.

Protective Clothing (Pictograms)

Section 9. Physical and Chemical Properties

Physical State	Liquid.	**Color**	Green.
pH	9 - 9.5	**Odor**	Pleasant.
Boiling Point	Not available.	**Vapor Pressure**	Not available.
Specific Gravity	100 (Water = 1)	**Vapor Density**	Not available.
VOC (Consumer)	19 (g/l).	**Evaporation Rate**	Not available.
Solubility	Not available.		

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.
Incompatibility None identified.
Hazardous Decomposition Products Carbon oxides (CO, CO2) and organic materials
Hazardous Polymerization Will not occur.

Section 11. Toxicological Information

Toxicity to Animals Non-toxic.
Chronic Effects on Humans No evidence of risk in humans.

Section 12. Ecological Information

Ecotoxicity Not available.
Biodegradable/OECD Not available.

Section 13. Disposal Considerations

Waste Information Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Waste Stream N/A
Consult your local or regional authorities.

Section 14. Transport Information

Proper shipping name Not applicable.
DOT Classification Not a DOT controlled material (United States).
UN number Not regulated.

TDG Classification Not available.

Section 15. Regulatory Information

U.S. Federal Regulations SARA 313 toxic chemical notification and release reporting: No products were found.
Clean Water Act (CWA) 311: No products were found.
Clean air act (CAA) 112 regulated toxic substances: No products were found.

State Regulations California prop. 65: No products were found.

WHMIS (Canada) Not controlled under WHMIS (Canada).

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Heavy Metal Cleaning Solution (HMCS-101)

(Catalog # RP-104)

General Information - Application Information - MSDS

I Product: HEAVY METAL CLEANING SOLUTION (HMCS-101)

Description: Clear Liquid Manufacturer: **Chemical Solutions Int'l. Corp.** **P.O. Box 891185** **Houston, TX 77289-1185**	Date Prepared: July 2000. Emergency Telephone No. **(281) 992-3031** **(800) 424-4804** E-mail: jimarnold@chemicalsolutionsintl.com Home Page: www.chemicalsolutionsintl.com

II Health Hazard Data:

Health Hazards (Acute & Chronic)
EYES: May cause discomfort.
SKIN: Concentrate will dry out and chap sensitive skin as would detergent.
INHALATION of fumes may upset stomach.

SIGNS & SYMPTOMS OF EXPOSURE:

EYES:Redness, tearing, blurred vision.
SKIN: Dryness, redness, chapping.
INGESTION may cause vomiting.

FIRST AID: EYES: Flush 15 minutes with water.
SKIN: Wash with soap and water.
INHALATION: Move to fresh air. Apply artificial respiration if breathing has stopped.
INGESTION: Do not induce vomiting. If any irritation persists, seek medical atttention.

III Precautions for Safe Handling & Use:

If material is spilled, remove leaking package to safe area. Flush with water.
Disposal: Any approved method for dilute cleaner.
Surfactants are highly biodegradable.

IV Physical Data:

pH.....10

V Hazardous Ingredients:

Hg Cleaning Solutions is a proprietary formulation which contains small amounts of minerals and organics.
This product should be handled accordingly.
Complies with OSHA 29 CFR XVIII-1910.1200 Section (I) "Trade Secrets"
Contains no hazardous components under current OSHA
definitions.

VI Special Protection & Precautions:

Hygienic Practices: Wash after each shift.
Remove and wash contaminated clothing before re-used.
Work Practices: Wear goggles or face shield.
Rubber gloves.
Other Protective Clothing: Long sleeved shirt buttoned at neck is desirable. Rubber boots.

VII Reactivity Data:

Stable under normal use and storage conditions.
Incompatible with strong oxidizing agents.
Hazardous decomposition or byproducts - oxides of carbon.

VIII Fire & Explosion Data:

Flash Point/Method Used..... None/COC.

IX Control Measures:

Solubility in water.....100% Boiling Point..... 212°F Vapor Pressure/Density..... Same as water Evaporation Rate (Butyl Acetate=1).....<1 Appearance & Odor: Clear liquid with medium viscosity and synthetic cleaner odor. Specific Gravity..... 1.06	Respiratory Protection: Not Necessary. Ventilation: Local Exhaust/Desirable. Mechanical/Helpful in congested areas. (Complies with OSHA 174, Sep. 1985.)

HMIS CODE: Health 1 Flammability 0 Reactivity 0 Personal Protection B

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APPENDIX E
Inspection and Clearance Sampling Report, Eagle Environmental, Inc., October 9, 2003

EAGLE ENVIRONMENTAL, INC.

INDOOR FIRING RANGE INSPECTION AND CLEARANCE SAMPLING
FOR
SSGT GEORGE D. LIBBEY USARC
200 WINTERGREEN AVENUE
NEW HAVEN, CONNECTICUT

PROVIDED TO

SHAW ENVIRONMENTAL & INFRASTRUCTURE, INC.
11499 CHESTER ROAD
CINCINNATI, OHIO 45246-4012

PROVIDED BY

EAGLE ENVIRONMENTAL, INC.
481 NORTH MAIN STREET
BRISTOL, CONNECTICUT

OCTOBER 9, 2003

EAGLE PROJECT NO.03-086.10

481 NORTH MAIN STREET •UNIT 11 •BRISTOL, CT 06010
PHONE (860) 589-8257 •FAX (860) 585-7034

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- Discussion	1
-Visual Examination	1
-Clearance Sampling	1
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APPENDICES

- Appendix A Visual Clearance Form
- Appendix B Clearance Dust Wipe Laboratory Results
- Appendix C Clearance Dust Wipe Sampling Locations
- Appendix D Eagle Environmental Inc., Certificates

INTRODUCTION

On September 29, 2003, Eagle Environmental, Inc. conducted a post abatement visual examination and clearance dust wipe sampling within the indoor firing range located at the SSGT George D. Libbey USARC, 200 Wintergreen Avenue, New Haven, Connecticut. The visual examination and clearance dust wipe sampling was completed following the lead decontamination work associated with the decommissioning of the firing range.

The visual examination and dust wipe sampling was performed by Caleb Cowles; a State of Connecticut licensed Lead Inspector (Connecticut license # 002106).

DISCUSSION

The indoor firing range located at the SSGT George D. Libbey USARC contains five (5) firing points. The firing range is located off of the main corridor on the ground level of the building.

Visual Examination

The visual examination was conducted following the completion of cleaning activities. The intent of the visual examination is to evaluate if the lead hazard control work was completed as required and to determine if visible settled dust or debris was present.

The visual examination included a surface-by-surface examination of the firing range. The walls, ceilings, floors and miscellaneous horizontal surfaces were examined for settled dust and or debris.

Clearance Sampling

Following the visual examination, single-surface clearance lead dust wipe samples were collected. Sampling surface areas were pre-determined in the Scope of Work. The specific sampling locations for each surface were determined by the Inspector in the field. One (1) unused blank wipe was submitted with the batch of samples. Two quality control spike samples with known lead concentrations were also submitted with the batch of samples. The spike samples were submitted in a manner as not to reveal the sample identity. The intent of the clearance dust sampling was to evaluate if lead dust levels exceeded the clearance criteria specified in the Scope of Work.

Single surface dust wipes were collected following ASTM's Standard Practice for Field Collection of Settled Dust Samples Using Wipe Sampling Methods for Lead Determination by Atomic Absorption Spectrometry (AAS) Techniques (E 1728). Wipe materials utilized on this project complied with ASTM's Standard Specification for Wipe Sampling Materials for Lead in Surface Dust (E 1792).

The clearance dust wipe samples were analyzed by EnviroData Group of Lexington, KY utilizing the EPA SW-846 Method 6010B. Laboratory results are reported in micrograms per square foot (ug/ft2).

CONCLUSION

Visual Examination

The surfaces inspected within the firing range were free of visible settled dust and debris at the time of the inspection. The firing range meets the post cleaning visual examination criteria. There was no waste stored in the firing range at the time of the inspection.

Clearance Dust Wipe Sampling

A total of twenty-two (22) dust wipes, including one (1) blank and two (2) spikes were submitted to the laboratory for analysis. One sample was exactly at the clearance level of 200 ug/ft2. Sample 94CTNH03SEPT29001DT collected at the firing line floor was exactly 200 ug/ft2. This area is recommended for further cleaning and subsequent retesting. The remaining sample results were below the specified criteria of 200 ug/ft2. Spike sample #1 and #2 both had recovery rates over 100%.

APPENDIX A
VISUAL CLEARANCE FORM

Visual Clearance Form

Installation SSGT George D. Libbey USARC Army POC _____
Building Address or Location 200 Wintergreen Ave, New Haven CT
Range Unit No. _____

Date Cleanup Completed unknown
Time Cleanup Completed unknown
Date and Time Inspection Initiated 9.29.03 9:AM

Lead Hazard Control Contractor Name _____
Address _____
Telephone No. _____

Location within Range	Work Completed? (yes/no)	Visible Dust Seen? (yes/no)	More Work Required? (yes/no)	Comments
Firing Line Floor	y	n	n	
Floor between Firing Line and Bullet Trap	y	n	n	
Bullet Trap Floor	y	n	n	
Ceiling	y	n	n	
Sidewalls	y	n	n	
Front Wall	y	n	n	
Back Wall	y	n	n	
Ventilation System	y	n	n	

Does range venting discharge to soil? ____ Yes ✓ No
Was contaminated soil removed? ✓ Yes ____ No
Is additional soil treatment required? ____ Yes ✓ No

Other Comments: _____

Name of Clearance Examiner (print) Caleb Cowles
Certification Title and License Number Lead Inspector Risk Assessor State of CT # 002149
(EPA, State, or both, if applicable)
Signature: _____ Date 9.29.03

APPENDIX B
CLEARANCE DUST WIPE LABORATORY RESULTS

Dust Sampling Form

Installation SSGT George D. Gibbey USARC Army POC _____

Building Address or Location 200 Wintergreen Ave

Range Unit No. _____

Date Cleanup Completed unknown

Time Cleanup Completed unknown

Date and Time Sampling Initiated 9.29.03. 9AM

Clearance Categories:

1. Interior treatment without containment
2. Interior treatment with containment
3. Exterior work (including soil)
4. Routine Maintenance

Sample No.	Sample Location	Clearance Category No.	Sample Area Dimensions	Sample Area (ft²)	Lab Results (µg/ft²)	Pass or Fail
14CTNH03Sept29001DT	Firing line Floor		12x12	1	200	
002DT	Mid Range Floor		12x12	1	96	
003DT	Bullet Trap Firing line side Floor		12x12	1	40	
004DT	Bullet Trap Wall Side Floor		12x12	1	23	
005DT	Sidewall left 2'		12x12	1	<2.5	
006DT	Side wall left 4'		12x12	1	<2.5	
007DT	Sidewall left 6'		12x12	1	2.9	
008DT	Sidewall Right 2'		12x12	1	<2.5	
009DT	Sidewall Right 4'		12x12	1	3.6	
010DT	Sidewall Right 6'		12x12	1	<2.5	
011DT	Frontwall Behind Bullet Trap L		12x12	1	<2.5	
012DT	Frontwall Behind Bullet Trap C		12x12	1	<2.5	
013DT	Frontwall Behind Bullet Trap R		12x12	1	<2.5	
014DT	Backwall Behind Fire line L		12x12	1	<2.5	
015DT	Backwall Behind Fire line C		12x12	1	<2.5	
016DT	Backwall Behind Fire line R		12x12	1	<2.5	
017DT	Floor outside of Range		12x12	1	55	
018DT	Blank				<2.5	
019DT	Spike		#6035		270	
020DT	Spike		#16850		71	
~~021 DT~~	~~Ceiling at firing line~~					
021 DT	Ceiling at Mid Range				<2.5	
022 DT	Ceiling at Bullet trap Firing line side				2.9	

Comments - No accessable Horizontle surfaces on Exhaust fan
Ceiling above firing line not testable

Date of Sample Collection 9.29.03 Date Shipped to Lab 9.29.03

(Attach a Copy of the Chain of Custody to this Form)

Name of Lab and Phone No. _____

Name of Clearance Examiner (print) Caleb Cordes

Certification Title and License Number (EPA, State, or both, if applicable) Lead Inspector Risk Assessor State of CT # 002149

Signature: _____ Date 9.29.03

APPENDIX C
CLEARANCE DUST WIPE SAMPLE LOCATIONS

EnviroData Group
Accredited Lab Data for Today's Environment

2520 Regency Road
Lexington, KY 40503-2921
Phone: 859-276-3506
Toll Free: 800-489-3506
Fax: 859-278-5665
Email: info@envirodatagroup.com
www.envirodatagroup.com

October 8, 2003

Mr. Peter Folino
Eagle Environmental, Inc.
481 North Main Street
Unit 11
Bristol, CT 06010

RECEIVED
NOV 03 2003
EAGLE ENVIRONMENTAL, INC.

RE: Data Package and Narrative
Project: 03-086-1
COC 24199

Dear Mr. Folino:

Enclosed is the case narrative, which summarizes any issues encountered with the analyses for the samples referenced below.

General

EnviroData Group (EDG) received twenty-two (22) samples on September 30, 2003. The samples were received at 25 °C and intact. The temperature of the samples was measured upon receipt and was noted on the Chain of Custody Form #24199.

The individual client sample ID and laboratory sample number cross-reference list is provided, as follows:

EnviroData Group Lab Number	Client Sample ID
257082	94CTNH03SEPT29001DT
257089	94CTNH03SEPT29002DT
257090	94CTNH03SEPT29003DT
257091	94CTNH03SEPT29004DT
257092	94CTNH03SEPT29005DT
257093	94CTNH03SEPT29006DT
257094	94CTNH03SEPT29007DT
257095	94CTNH03SEPT29008DT
257096	94CTNH03SEPT29009DT
257097	94CTNH03SEPT29010DT
257098	94CTNH03SEPT29011DT

257099	94CTNH03SEPT29012DT
257100	94CTNH03SEPT29013DT
257101	94CTNH03SEPT29014DT
257102	94CTNH03SEPT29015DT
257103	94CTNH03SEPT29016DT
257104	94CTNH03SEPT29017DT
257105	94CTNH03SEPT29018DT
257106	94CTNH03SEPT29019DT
257107	94CTNH03SEPT29020DT
257108	94CTNH03SEPT29021DT
257109	94CTNH03SEPT29022DT

Metals- Lead

Samples 257082 and 257089-257109 were analyzed for total lead by method SW6010B on 10/01/2003.

Instrument Calibration: The calibration criteria were within the corresponding QC limits.

Initial Calibration Verification (ICV): The ICV was within the corresponding QC limits for all project analytes.

Initial Calibration Blanks (ICB): The ICB was below the corresponding reporting limits for all project analytes.

ICS A/ICS AB: The ICS A and AB at the beginning and end of the run were within acceptable limits.

Continuing Calibration Verification (CCV): All CCVs were within the corresponding QC limits for all project analytes.

Continuing Calibration Blanks (CCB): No target analyte was detected in the continuing calibration blank samples.

Method Blank (MB): No target analyte was detected in method blank samples.

Laboratory Control Sample (LCS): The LCS percent recoveries were within the corresponding QC limits for all project analytes for prep batch 8044. However, prep batch 8045 resulted in LCS recovery higher than the upper limit.

Matrix Spike/Matrix Spike Duplicate (MS/MSD): The MS/MSD samples' percent recoveries and relative percent difference were within QC limits for all project analytes.

Post Digestion Spike (PDS): PDS sample results were within LCG limits for all project analytes on prep batch 8045. However, prep batch 8044 was outside LCG limits.

If you have any questions regarding the enclosed information, please contact Lisa Sexton at (859) 276-3506 ext. 57.

Sincerely,
EnviroData Group

Lisa Sexton
Project Manager

EnviroData Group
Accredited Lab Data for Today's Environment

2520 Regency Rd.
Lexington, KY 40503
Phone: 859-276-3506
Toll Free: 800-489-3506
Fax: 859-278-5665
E-mail: info@envirodatagroup.com

ANALYTICAL REPORT

Eagle Environmental, Inc.
Attn: Mr. Peter Folino
481 North Main Street
Unit 11
Bristol, CT 06010
cc:

Project Name: SSGT George Libbey
USARC
Project #: 03-08-G-1
Contract #: 2688
Chain of Custody #: 24199
Collector: Client

Sample #: 257082 Station ID: 94CTNH03SEPT29001DT Tag #:
Sampled: 09/29/2003 Time:09:00 Depth:

Analytical Results for Sample # 257082

ICP TOTAL Method: SW6010B

Prep. Batch: 8,044 Prepped: 09/30/2003 11:09 Prepped By: KF Prep Method: SW 3050B

Analysis Batch: 19731 Analyzed: 10/01/2003 11:09 Analyzed By: TNT

Analyte	Result	Units	DF	RL	Surr Range	Qualifiers
Total Lead	**195**	ug/Wipe	1	2.50		J

Sample #: 257089 Station ID: 94CTNH03SEPT29002DT Tag #:
Sampled: 09/29/2003 Time:09:03 Depth:

tical Results for Sample # 257089

ICP TOTAL Method: SW6010B

Prep. Batch: 8,044 Prepped: 09/30/2003 11:12 Prepped By: KF Prep Method: SW 3050B

Analysis Batch: 19731 Analyzed: 10/01/2003 11:12 Analyzed By: TNT

Analyte	Result	Units	DF	RL	Surr Range	Qualifiers
Total Lead	**96**	ug/Wipe	1	2.50		J

Sample #: 257090 Station ID: 94CTNH03SEPT29003DT Tag #:
Sampled: 09/29/2003 Time:09:06 Depth:

Analytical Results for Sample # 257090

ICP TOTAL Method: SW6010B

Prep. Batch: 8,044 Prepped: 09/30/2003 11:15 Prepped By: KF Prep Method: SW 3050B

Analysis Batch: 19731 Analyzed: 10/01/2003 11:15 Analyzed By: TNT

Analyte	Result	Units	DF	RL	Surr Range	Qualifiers
Total Lead	**40**	ug/Wipe	1	2.50		J

Sample #: 257091 Station ID: 94CTNH03SEPT29004DT Tag #:
Sampled: 09/29/2003 Time:09:09 Depth:

Analytical Results for Sample # 257091

ICP TOTAL Method: SW6010B

Batch: 8,044 Prepped: 09/30/2003 11:18 Prepped By: KF Prep Method: SW 3050B

Analysis Batch: 19731 Analyzed: 10/01/2003 11:18 Analyzed By: TNT

Analyte	Result	Units	DF	RL	Surr Range	Qualifiers

Sample #: 257091 | Station ID: 94CTNH03SEPT29004DT | Tag #:
Sampled: 09/29/2003 Time:09:09 | Depth:

Analytical Results for Sample # 257091

Total Lead	**23** ug/Wipe	1	2.50	J

Sample #: 257092 | Station ID: 94CTNH03SEPT29005DT | Tag #:
Sampled: 09/29/2003 Time:09:12 | Depth:

Analytical Results for Sample # 257092

ICP TOTAL Method: SW6010B

Prep. Batch: 8,044 Prepped: 09/30/2003 11:29 Prepped By: KF Prep Method: SW 3050B

Analysis Batch: 19731 Analyzed: 10/01/2003 11:29 Analyzed By: TNT

Analyte	Result	Units	DF	RL	Surr Range	Qualifiers
Total Lead	**< 2.50**	ug/Wipe	1	2.50		

Sample #: 257093 | Station ID: 94CTNH03SEPT29006DT | Tag #:
Sampled: 09/29/2003 Time:09:15 | Depth:

Analytical Results for Sample # 257093

ICP TOTAL Method: SW6010B

Prep. Batch: 8,044 Prepped: 09/30/2003 11:31 Prepped By: KF Prep Method: SW 3050B

Analysis Batch: 19731 Analyzed: 10/01/2003 11:31 Analyzed By: TNT

Analyte	Result	Units	DF	RL	Surr Range	Qualifiers
Total Lead	**< 2.50**	ug/Wipe	1	2.50		

Sample #: 257094 | Station ID: 94CTNH03SEPT29007DT | Tag #:
Sampled: 09/29/2003 Time:09:18 | Depth:

Analytical Results for Sample # 257094

ICP TOTAL Method: SW6010B

Prep. Batch: 8,044 Prepped: 09/30/2003 11:34 Prepped By: KF Prep Method: SW 3050B

Analysis Batch: 19731 Analyzed: 10/01/2003 11:34 Analyzed By: TNT

Analyte	Result	Units	DF	RL	Surr Range	Qualifiers
Total Lead	**2.93**	ug/Wipe	1	2.50		J

Sample #: 257095 | Station ID: 94CTNH03SEPT29008DT | Tag #:
Sampled: 09/29/2003 Time:09:21 | Depth:

Analytical Results for Sample # 257095

ICP TOTAL Method: SW6010B

Prep. Batch: 8,044 Prepped: 09/30/2003 11:37 Prepped By: KF Prep Method: SW 3050B

Analysis Batch: 19731 Analyzed: 10/01/2003 11:37 Analyzed By: TNT

Analyte	Result	Units	DF	RL	Surr Range	Qualifiers
Total Lead	**< 2.50**	ug/Wipe	1	2.50		

Sample #: 257096 | Station ID: 94CTNH03SEPT29009DT | Tag #:
Sampled: 09/29/2003 Time:09:24 | Depth:

Analytical Results for Sample # 257096

ICP TOTAL Method: SW6010B

Prep. Batch: 8,044 Prepped: 09/30/2003 11:40 Prepped By: KF Prep Method: SW 3050B

Analysis Batch: 19731 Analyzed: 10/01/2003 11:40 Analyzed By: TNT

Analyte	Result	Units	DF	RL	Surr Range	Qualifiers
Total Lead	3.58	ug/Wipe	1	2.50		J

Sample #: 257097 Station ID: 94CTNH03SEPT29010DT Tag #:
Sampled: 09/29/2003 Time:09:27 Depth:

Analytical Results for Sample # 257097

ICP TOTAL Method: SW6010B

Prep. Batch: 8,044 Prepped: 09/30/2003 11:42 Prepped By: KF Prep Method: SW 3050B

Analysis Batch: 19731 Analyzed: 10/01/2003 11:42 Analyzed By: TNT

Analyte	Result	Units	DF	RL	Surr Range	Qualifiers
Total Lead	< 2.50	ug/Wipe	1	2.50		

Sample #: 257098 Station ID: 94CTNH03SEPT29011DT Tag #:
Sampled: 09/29/2003 Time:09:30 Depth:

Analytical Results for Sample # 257098

ICP TOTAL Method: SW6010B

Prep. Batch: 8,044 Prepped: 09/30/2003 11:45 Prepped By: KF Prep Method: SW 3050B

Analysis Batch: 19731 Analyzed: 10/01/2003 11:45 Analyzed By: TNT

Analyte	Result	Units	DF	RL	Surr Range	Qualifiers
Total Lead	< 2.50	ug/Wipe	1	2.50		

Sample #: 257099 Station ID: 94CTNH03SEPT29012DT Tag #:
Sampled: 09/29/2003 Time:09:33 Depth:

Analytical Results for Sample # 257099

ICP TOTAL Method: SW6010B

Prep. Batch: 8,044 Prepped: 09/30/2003 11:48 Prepped By: KF Prep Method: SW 3050B

Analysis Batch: 19731 Analyzed: 10/01/2003 11:48 Analyzed By: TNT

Analyte	Result	Units	DF	RL	Surr Range	Qualifiers
Total Lead	< 2.50	ug/Wipe	1	2.50		

Sample #: 257100 Station ID: 94CTNH03SEPT29013DT Tag #:
Sampled: 09/29/2003 Time:09:36 Depth:

Analytical Results for Sample # 257100

ICP TOTAL Method: SW6010B

Prep. Batch: 8,044 Prepped: 09/30/2003 11:51 Prepped By: KF Prep Method: SW 3050B

Analysis Batch: 19731 Analyzed: 10/01/2003 11:51 Analyzed By: TNT

Analyte	Result	Units	DF	RL	Surr Range	Qualifiers
Total Lead	< 2.50	ug/Wipe	1	2.50		

Sample #: 257101 Station ID: 94CTNH03SEPT29014DT Tag #:
Sampled: 09/29/2003 Time:09:39 Depth:

Analytical Results for Sample # 257101

ICP TOTAL Method: SW6010B

Prep. Batch: 8,044 Prepped: 09/30/2003 12:01 Prepped By: KF Prep Method: SW 3050B

Analysis Batch: 19731 Analyzed: 10/01/2003 12:01 Analyzed By: TNT

Analyte	Result	Units	DF	RL	Surr Range	Qualifiers
Total Lead	< 2.50	ug/Wipe	1	2.50		

Sample #: 257102 Station ID: 94CTNH03SEPT29015DT Tag #:
Sampled: 09/29/2003 Time:09:42 Depth:

Analytical Results for Sample # 257102

ICP TOTAL Method: SW6010B

Prep. Batch: 8,044 Prepped: 09/30/2003 12:04 Prepped By: KF Prep Method: SW 3050B

Analysis Batch: 19731 Analyzed: 10/01/2003 12:04 Analyzed By: TNT

Analyte	Result	Units	DF	RL	Surr Range	Qualifiers
Total Lead	< 2.50	ug/Wipe	1	2.50		

Sample #: 257103 Station ID: 94CTNH03SEPT29016DT Tag #:
Sampled: 09/29/2003 Time:09:45 Depth:

Analytical Results for Sample # 257103

ICP TOTAL Method: SW6010B

Prep. Batch: 8,044 Prepped: 09/30/2003 12:07 Prepped By: KF Prep Method: SW 3050B

Analysis Batch: 19731 Analyzed: 10/01/2003 12:07 Analyzed By: TNT

Analyte	Result	Units	DF	RL	Surr Range	Qualifiers
Total Lead	< 2.50	ug/Wipe	1	2.50		

Sample #: 257104 Station ID: 94CTNH03SEPT29017DT Tag #:
Sampled: 09/29/2003 Time:09:48 Depth:

Analytical Results for Sample # 257104

ICP TOTAL Method: SW6010B

Prep. Batch: 8,044 Prepped: 09/30/2003 12:10 Prepped By: KF Prep Method: SW 3050B

Analysis Batch: 19731 Analyzed: 10/01/2003 12:10 Analyzed By: TNT

Analyte	Result	Units	DF	RL	Surr Range	Qualifiers
Total Lead	55	ug/Wipe	1	2.50		J

Sample #: 257105 Station ID: 94CTNH03SEPT29018DT Tag #:
Sampled: 09/29/2003 Time:09:51 Depth:

Analytical Results for Sample # 257105

ICP TOTAL Method: SW6010B

Prep. Batch: 8,044 Prepped: 09/30/2003 12:12 Prepped By: KF Prep Method: SW 3050B

Analysis Batch: 19731 Analyzed: 10/01/2003 12:12 Analyzed By: TNT

S. ple #: 257105 | Station ID: 94CTNH03SEPT29018DT | Tag #:
Sampled: 09/29/2003 Time:09:51 | Depth:

Analytical Results for Sample # 257105

Analyte	Result	Units	DF	RL	Surr Range	Qualifiers
Total Lead	< 2.50	ug/Wipe	1	2.50		

Sample #: 257106 | Station ID: 94CTNH03SEPT29019DT | Tag #:
Sampled: 09/29/2003 Time:09:54 | Depth:

Analytical Results for Sample # 257106

ICP TOTAL Method: SW6010B

Prep. Batch: 8,044 Prepped: 09/30/2003 12:15 Prepped By: KF Prep Method: SW 3050B

Analysis Batch: 19731 Analyzed: 10/01/2003 12:15 Analyzed By: TNT

Analyte	Result	Units	DF	RL	Surr Range	Qualifiers
Total Lead	267	ug/Wipe	1	2.50		J

Sample #: 257107 | Station ID: 94CTNH03SEPT29020DT | Tag #:
Sampled: 09/29/2003 Time:09:57 | Depth:

Analytical Results for Sample # 257107

TOTAL Method: SW6010B

Batch: 8,044 Prepped: 09/30/2003 12:18 Prepped By: KF Prep Method: SW 3050B

Analysis Batch: 19731 Analyzed: 10/01/2003 12:18 Analyzed By: TNT

Analyte	Result	Units	DF	RL	Surr Range	Qualifiers
Total Lead	71	ug/Wipe	1	2.50		J

Sample #: 257108 | Station ID: 94CTNH03SEPT29021DT | Tag #:
Sampled: 09/29/2003 Time:10:00 | Depth:

Analytical Results for Sample # 257108

ICP TOTAL Method: SW6010B

Prep. Batch: 8,045 Prepped: 09/30/2003 12:43 Prepped By: KF Prep Method: SW 3050B

Analysis Batch: 19731 Analyzed: 10/01/2003 12:43 Analyzed By: TNT

Analyte	Result	Units	DF	RL	Surr Range	Qualifiers
Total Lead	< 2.50	ug/Wipe	1	2.50		J

Sample #: 257109 | Station ID: 94CTNH03SEPT29022DT | Tag #:
Sampled: 09/29/2003 Time:10:03 | Depth:

Analytical Results for Sample # 257109

ICP TOTAL Method: SW6010B

Prep. Batch: 8,045 Prepped: 09/30/2003 12:45 Prepped By: KF Prep Method: SW 3050B

Analysis Batch: 19731 Analyzed: 10/01/2003 12:45 Analyzed By: TNT

Analyte	Result	Units	DF	RL	Surr Range	Qualifiers
Total Lead	2.94	ug/Wipe	1	2.50		J

All samples were received intact and properly preserved unless otherwise noted.
The results reported relate only to the samples tested.
This report shall not be reproduced except in full, without written approval of this laboratory.

ACCREDITED IN ACCORDANCE WITH NELAC

Lab# E87286

ACCREDITED

Lab#: 100343

Project Manager: Lisa Sexton

Lisa Sexton

Lab Director/ QA Manager: —

Please contact Lisa Sexton with any questions.

Specific tests covered by A2LA and NELAC accreditations meet the requirements of these accreditation standards.

Data Qualifiers

Qualifier	Description
A	E. coli Present.
A'	E. coli absent.
B	Analyte detected in associated Method Blank.
C	Sample Result confirmed.
D	Results reported from dilution.
E	Analyte concentration exceeds calibration range.
F	Unable to analyze due to sample matrix interference.
H	Sample was received or analyzed past the established holding time.
J	Estimated concentration.
K	Sample contained lighter hydrocarbon fractions.
L	Sample contained heavier hydrocarbon fractions.
M	Matrix Spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Presumptive evidence of analyte present.
O	Sample hydrocarbon pattern does not match calibration standard pattern.
P	Percent difference between primary and secondary column concentrations exceeds acceptance lim
Q	Laboratory Control Sample outside acceptance limits.
R	Data unusable.
S	Surrogate outside acceptance limits on initial and reanalysis.
S'	Surrogates diluted below detection.
T	Sample received improperly preserved.
U	Analyte not detected.
W	Raised Quantitation or Reporting Limit due to limited sample volume.
Y	Replicate/Duplicate precision outside acceptance limits.
Z'	Calibration criteria exceeded but for this situation acceptable by method.
Z	Calibration criteria exceeded.
M'	Result from Method of Standard Additions (MSA).
Q'	LCS/LCD analyzed due to insufficient sample for MS/MSD.

The uncertainty of analytical results can be calculated using the following equation:

$$n = t^*s/1.414$$

where

t=12.706 (Students t value for 95% confidence interval of two replicates)
s= standard deviation of sample and duplicate data
1.414 is square root of the number of replicates (two)

COC # 24199 CHAIN OF CUSTODY 257082; 89-109. Page 1 of

Client: Shaw Environmental
Project Name: SSGT George D. Libbey USARC
Project #: 03.086-1 Acct #:
Quote #: P.O. #:
Project Contact: Pete Folino
Phone #: 860 589.8257
Collected By: Caleb Coules
Landfill License #: / PWS ID #:

EnviroData Group
2520 Regency Road, Lexington, KY 40503-2421
Phone: 859-276-3506
Toll Free: 800-489-3506
Fax: 859-273-5665
email: info@envirodatagroup.com

Mail Report To: Pete Folino
Company: Eagle Environmental
Address: 481 North Main Street
City/State/Zip: Bristol, CT 06010
Invoice To: SAME
Company:
Address:
City/State/Zip:

Shipped Via: Fed-Ex / UPS / Courier / CTI
Airbill #:
COC Seal #:
Turnaround Time:
10-Day / 5-Day / 3-Day / 24-Hours / Other 10/2
Date / Time Needed
QC Level:
I / II / III / IV
EDD: Yes / No

* Matrix
A - Air
DW - Drinking Water
GW - Groundwater
L - Liquid
SE - Sediment
S - Soil
LS - Liquid Sludge
ST - Stormwater
SS - Solid Sludge
SU - Surface Water
WW - Wastewater
W - Water
O-Other:

** Preservation Type

Requested Analyses: EPA SW 846 Method 6010B

** Preservation Code
AA - Ascrobic Acid
AC - NH_4 Cl
E - EnCore®
HA - HCl
M - Methanol
NA - HNO_3
SA - H_2SO_4
SH - NaOH
SS - Na_2SO_3
ST - $Na_2S_2O_3$
ZA - Zinc Acetate
O - Other:

Sample I.D.	Location	Collection Date	Collection Time	Sample *Matrix	Grab / Comp.	Filt'd Y/N	# of Containers Per Analysis	EDG Lab #	Comments
94CTNH03Sept29 001DT	Firing line Floor	9.29.03	9:00	Wipe	Grab	N	1	257082	
94CTNH03Sept29 002DT	Mid Range Floor	9.29.03	9:03	Wipe	Grab	N	1	257089	
94CTNH03Sept29 003DT	Bullet Trap, Firing line Side Floor	9.29.03	9:06	Wipe	Grab	N	1	257090	
94CTNH03Sept29 004DT	Bullet Trap, Wall Side floor	9.29.03	9:09	Wipe	Grab	N	1	257091	
94CTNH03Sept29 005DT	Side Wall left 2'	9.29.03	9:12	Wipe	Grab	N	1	257092	
94CTNH03Sept29 006DT	Side Wall left 4'	9.29.03	9:15	Wipe	Grab	N	1	257093	
94CTNH03Sept29 007DT	Side Wall left 6'	9.29.03	9:18	Wipe	Grab	N	1	257094	
94CTNH03Sept29 008DT	Side Wall Right 2'	9.29.03	9:21	Wipe	Grab	N	1	257095	
94CTNH03Sept29 009DT	Side Wall Right 4'	9.29.03	9:24	Wipe	Grab	N	1	257096	
94CTNH03Sept29 010DT	Side Wall Right 6'	9.29.03	9:27	Wipe	Grab	N	1	257097	

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Date / Time
	9.29.03 - 2pm		
Fed Ex	9/30/03 1030		9/30/03 1030

Properly Preserved: (Yes / No) Headspace: (Yes / No)
COC Seals Intact: (Yes / No / NA) Bottles Intact: (Yes / No)
Temp. Upon Receipt (°C): 25 By: JCF
Field Document Attached: (Yes / No)

White Copy - Original (Accompanies Samples) Yellow Copy - Lab Pink Copy - Other Golden Rod - Client

COC # 24199 CHAIN OF CUSTODY 257082;89-109 Page 2 of

Client: Shaw Environmental
Project Name: SSGT George D. Libbey USARC
Project #: 03-086-1 Acct #:
Quote #: P.O. #:
Project Contact: Pete Folino
Phone #: 860 589-8257
Collected By: Caleb Coules
Landfill License #: / PWS ID #:

EnviroData Group
2520 Regency Road, Lexington, KY 40503-2421
Phone: 859-276-3506
Toll Free: 800-489-3506
Fax: 859-278-5665
email: info@envirodatagroup.com

Mail Report To: Pete Folino
Company: Eagle Environmental
Address: 981 North Main Street
City/State/Zip: Bristol, CT 06010
Invoice To: SAME
Company:
Address:
City/State/Zip:

Shipped Via: Fed-Ex / UPS / Courier / CTI
Airbill #:
COC Seal #:
Turnaround Time:
10-Day / 5-Day / 3-Day / 24-Hours / Other 10/2
Date / Time Needed
QC Level:
I II III IV
EDD: Yes / No

* Matrix
A - Air
DW - Drinking Water
GW - Groundwater
L - Liquid
SE - Sediment
S - Soil
LS - Liquid Sludge
ST - Stormwater
SS - Solid Sludge
SU - Surface Water
WW - Wastewater
W - Water
O-Other:

* * Preservation Type

Requested Analyses: EPA SW 846 Method 6010B

* * Preservation Code
AA - Ascorbic Acid
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E - EnCore®
HA - HCl
M - Methanol
NA - HNO_3
SA - H_2SO_4
SH - NaOH
SS - Na_2SO_3
ST - $Na_2S_2O_3$
ZA - Zinc Acetate
O - Other:

Sample I.D.	Location	Collection Date	Collection Time	Sample Matrix	Grab / Comp.	Fil'd Y/N	# of Containers Per Analysis	EDG Lab #	Comments
94CTNH03Sept29 011DT	Front wall behind Bullet Trap left	9-29-03	9:30	Wipe	Grab	N	1	257098	
94CTNH03Sept29 012DT	Front wall behind Bullet Trap Center	9-29-03	9:33	wipe	Grab	N	1	257099	
94CTNH03Sept29 013DT	Front wall behind Bullet Trap Right	9-29-03	9:36	wipe	Grab	N	1	257100	
94CTNH03Sept29 014DT	Back wall Behind Firing line left	9-29-03	9:39	wipe	Grab	N	1	257101	
94CTNH03Sept29 015DT	Back wall Behind Firing line Center	9-29-03	9:42	wipe	Grab	N	1	257102	
94CTNH03Sept29 016DT	Back wall Behind Firing line Right	9-29-03	9:45	wipe	Grab	N	1	257103	
94CTNH03Sept29 017DT	Floor outside range	9-29-03	9:48	wipe	Grab	N	1	257104	
94CTNH03Sept29 018DT	Blank	9-29-03	9:51	wipe	Grab	N	1	257105	
94CTNH03Sept29 019DT	Spike	9-29-03	9:54	wipe	Grab	N	1	257106	
94CTNH03Sept29 020DT	Spike	9-29-03	9:57	wipe	Grab	N	1	257107	

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Date / Time
[signature]	9-29-03 2pm		
Fed Ex	9/30/03 1030	[signature]	9/30/03 1030

Property Preserved: (Yes / No) Headspace: (Yes / No)
COC Seals Intact: (Yes / No / NA) Bottles Intact: (Yes / No)
Temp. Upon Receipt (°C): 25 By: JCF
Field Document Attached: (Yes / No)

White Copy - Original (Accompanies Samples) Yellow Copy - Lab Pink Copy - Other Golden Rod - Client

257082; 89-109

COC # 24199 CHAIN OF CUSTODY 257108-09 Page 8 of

Client: Shaw Environmental
Project Name: SSGT George D. Libbey USARC
Project #: 03.086-1 Acct #:
Quote #: P.O. #:
Project Contact: Pete Folino
Phone #: 860 589.8257
Collected By: Caleb Coules
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Address: 481 North Main Street
City/State/Zip: Bristol, CT 06010
Invoice To: SAME
Company:
Address:
City/State/Zip:

Shipped Via: Fed-Ex / UPS / Courier / CTI
Airbill #:
COC Seal #:
Turnaround Time: 10-Day / 5-Day / 3-Day / 24-Hours / Other 10/2
Date / Time Needed
QC Level: I II III IV
EDD: Yes / No

* Matrix
A - Air
DW - Drinking Water
GW - Groundwater
L - Liquid
SE - Sediment
S - Soil
LS - Liquid Sludge
ST - Stormwater
SS - Solid Sludge
SU - Surface Water
WW - Wastewater
W - Water
O-Other:

** Preservation Type

Requested Analyses: EPA SW 846 Method 8081B

** Preservation Code
AA - Ascrobic Acid
AC - NH_4 Cl
E - EnCore®
HA - HCl
M - Methanol
NA - HNO_3
SA - H_2SO_4
SH - NaOH
SS - Na_2SO_3
ST - $Na_2S_2O_3$
ZA - Zinc Acetate
O - Other:

Sample I.D.	Location	Collection Date	Collection Time	Sample *Matrix	Grab / Comp.	Filt'd Y/N	# of Containers Per Analysis	EDG Lab #	Comments
94CTNH03Sept29 021DT	Ceiling at midrange	9.29.03	10:00	Wipe	Grab	N	1	257108	
94CTNH03Sept29 022DT	Ceiling at bullettrap	9.29.03	10:03	Wipe	Grab	N	1	257109	
94CT NH03 Sept29		9.29.03		Wipe	Grab	N	1		
94CT NH 03 Sept29		9.29.03		Wipe	Grab	N	1		
94CT NH 03 Sept29		9.29.03		Wipe	Grab	N	1		
94 CT NH 03 Sept29		9.29.03		Wipe	Grab	N	1		
94 CT NH 03 Sept29		9.29.03		Wipe	Grab	N	1		
94 CT NH 03 Sept29		9.29.03		Wipe	Grab	N	1		
94 CT NH 03 Sept29		9.29.03		Wipe	Grab	N	1		
94 CT NH 03 Sept29		9.29.03		Wipe	Grab	N	1		

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Date / Time
	9.29.03 2pm		
Fed Ex	9/30/03 1030		9/30/03 1030

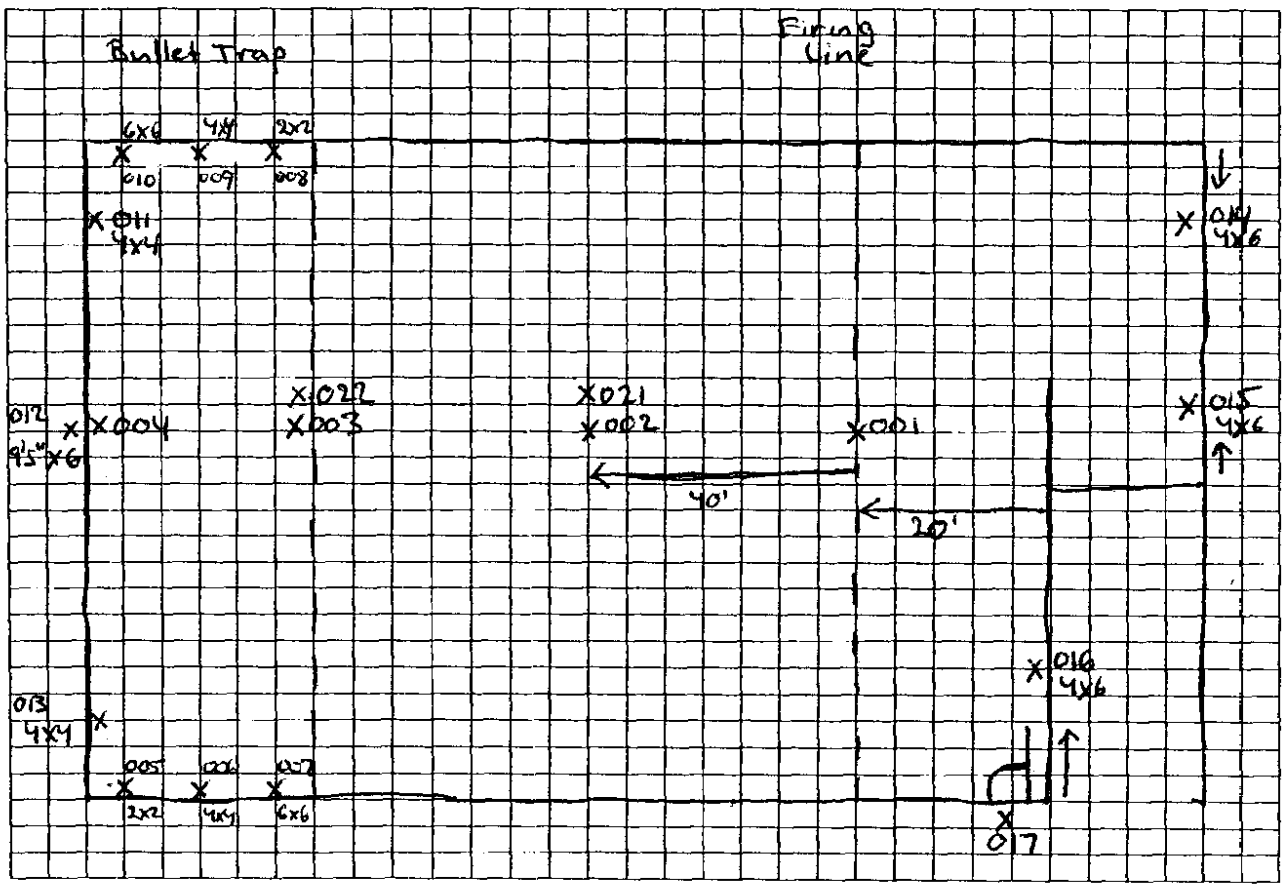
Properly Preserved: (Yes) No
Headspace: (Yes / No)
COC Seals Intact: (Yes / No (NA))
Bottles Intact: (Yes) No
Temp. Upon Receipt (°C): 25 By: JCF
Field Document Attached: (Yes / No)

White Copy - Original (Accompanies Samples) Yellow Copy - Lab Pink Copy - Other Golden Rod - Client

EAGLE ENVIRONMENTAL, INC.

FINAL VISUAL INSPECTION LOG WORK AREA DIAGRAM

Eagle Project No: 03-086.10 Date: 9-29-03
Facility Address: 200 Wintergreen Ave
Abatement Contractor: Supervisor:
Work Area: Firing Range
Scope of Work:



= Air Sample Location
□□□= Decontamination Facility
□ = Negative Air Filtration Equipment
→ = Negative Air Exhaust

P:\Forms\forms2003\finalvisualinspection.doc

481 NORTH MAIN STREET • UNIT 11 • BRISTOL, CT 06010
PHONE (860) 589-8257 • FAX (860) 585-7034

APPENDIX D
EAGLE ENVIRONMENTAL, INC. CERTIFICATES

State of Connecticut
Board of Trustees, Community-Technical Colleges

Capital Community College

950 Main Street, Hartford, CT 06103 -- (860) 906-5134

This is to certify that

Caleb Cowles
452 Willard Ave., Newington, CT 06111
SS# 049-68-4610

has successfully completed the

24 Hour Lead Inspector Initial Course
(Approved per Sec. 20-477, CT General Statutes)

Frank Mills	Patricia Lindsey
Instructor	*Training Manager*
Jan. 14-16, 2003	LI-I –01/16-3
Date of Course	*Certificate Number*
January 16, 2003: A-	January 16, 2004
Examination Date & Grade	*Expiration Date*

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A

LEAD INSPECTOR

CALEB J. COWLES

CERTIFICATION NO.
002106
CURRENT THROUGH
02/29/04
VALIDATION NO.
03-853636

SIGNATURE

COMMISSIONER, DEPT. OF PUBLIC HEALTH

APPENDIX F
Post-Floor Sealing Wipe Samples Sampling Forms and Analytical Results, IT Corporation and EnviroData Group, October 2003

Figure 3-2
Dust Sampling Form

Installation New Haven, CT Army POC _____
Building Address or Location _____
Range Unit No. _____

Date Cleanup Completed 10/10/03 Time Cleanup Completed _____ Date and Time Sampling Initiated 10-10-03 / 1300

Clearance Categories:

1. Interior treatment without containment containment
2. Interior treatment with
3. Exterior work (including soil)
4. Routine Maintenance

Sample No.	Sample Location	Clearance Category No.	Sample Area Dimensions	Sample Area (ft^2)	Lab Results ($\mu g/ft^2$)	Pass or Fail
001	Floor Firing Line	2	12 x 12	1 SF		
002	Floor Mid Range	2	12 x 12	1 SF		
003	Floor Bullet Trap	2	12 x 12	1 SF		
004	Floor Sand Trap	2	12 x 12	1 SF		

Comments _____

Date of Sample Collection 10-10-03 Date Shipped to Lab 10/15/03
(Attach a Copy of the Chain of Custody to this Form)

Name of Lab and Phone No. EnvironData Group
Name of Clearance Examiner (print) James Green
License Number(s) NA
(EPA, State, or both, if applicable)

Signature: [signature] Date 10-10-03

EnviroData Group
Accredited Lab Data for Today's Environment

2520 Regency Road
Lexington, KY 40503-2921
Phone: 859-276-3506
Toll Free: 800-489-3506
Fax: 859-278-5665
Email: info@envirodatagroup.com
www.envirodatagroup.com

October 30, 2003

Mr. Bill Scoville
Shaw Environmental & Infrastructure
11499 Chester Road
Cincinnati, OH 45246

RE: Data Package and Narrative
Project: 845832
COC 24645

Dear Mr. Scoville:

Enclosed is the case narrative, which summarizes any issues encountered with the analyses for the samples referenced below.

General

EnviroData Group (EDG) received four (4) samples on October 16, 2003. The samples were received at 25 °C and intact. The temperature of the sample was measured upon receipt and was noted on the Chain of Custody Form #24645.

The individual client sample ID and laboratory sample number cross-reference list is provided, as follows:

EnviroData Group Lab Number	Client Sample ID
261925	94CTNEW03OCT10001DT
261926	94CTNEW03OCT10002DT
261927	94CTNEW03OCT10003DT
261928	94CTNEW03OCT10004DT

Metals- Lead

Samples 261925-261928 were analyzed for total lead by method SW6010B on 10/17/2003.

Instrument Calibration: The calibration criteria were within the corresponding QC limits.

Initial Calibration Verification (ICV): The ICV was within the corresponding QC limits for all project analytes.

Initial Calibration Blanks (ICB): The ICB was below the corresponding reporting limits for all project analytes.

ICS A/ICS AB: The ICS A and AB at the beginning and end of the run were within acceptable limits.

Continuing Calibration Verification (CCV): All CCVs were within the corresponding QC limits for all project analytes.

Continuing Calibration Blanks (CCB): No target analyte was detected in continuing calibration samples.

Method Blank (MB): No target analyte was detected in the method blank sample.

Laboratory Control Sample (LCS): The LCS percent recoveries were within the corresponding QC limits for all project analytes.

Matrix Spike/Matrix Spike Duplicate (MS/MSD): The MS/MSD samples' percent recoveries and relative percent difference were with QC limits for all project analytes.

Post Digestion Spike (PDS): PDS sample result was within LCG limits for the project analyte.

If you have any questions regarding the enclosed information, please contact Lisa Sexton at (859) 276-3506 ext. 57.

Sincerely,
EnviroData Group

Lisa Sexton

Lisa Sexton
Project Manager

Cc:
Dr. Maqsud Rahman
Shaw Environmental & Infrastructure
11499 Chester Road
Cincinnati, OH 45246

EnviroData Group
Accredited Lab Data for Today's Environment

2520 Regency Rd.
Lexington, KY 40503
Phone: 859-276-3506
Toll Free: 800-489-3506
Fax: 859-278-5665
E-mail: info@envirodatagroup.com

ANALYTICAL REPORT

Shaw Environmental & Infrastructure. Inc.
Attn: Mr. Bill Scoville
11499 Chester Road
Cincinnati, OH 45246
cc:

Project Name: New Haven, CT
Project #: 845832
Contract #: 2144
Chain of Custody #: 24645
Collector: Client

Sample #: 261925 Station ID: 94CTNEW03OCT10001DT Tag #:
Sampled: 10/10/2003 Time:13:00 Depth:

Analytical Results for Sample # 261925

ICP TOTAL Method: SW6010B

Prep. Batch: 8,175 Prepped: 10/16/2003 15:20 Prepped By: KF Prep Method: SW3050B

Analysis Batch: 20046 Analyzed: 10/17/2003 15:20 Analyzed By: TNT

Analyte	Result	Units	DF	RL	Surr Range	Qualifiers
Total Lead	**1.07**	ug/Wipe	1	2.50		J

Sample #: 261926 Station ID: 94CTNEW03OCT10002DT Tag #:
Sampled: 10/10/2003 Time:13:00 Depth:

Analytical Results for Sample # 261926

ICP TOTAL Method: SW6010B

Prep. Batch: 8,175 Prepped: 10/16/2003 15:23 Prepped By: KF Prep Method: SW3050B

Analysis Batch: 20046 Analyzed: 10/17/2003 15:23 Analyzed By: TNT

Analyte	Result	Units	DF	RL	Surr Range	Qualifiers
Total Lead	**0.940**	ug/Wipe	1	2.50		J

Sample #: 261927 Station ID: 94CTNEW03OCT10003DT Tag #:
Sampled: 10/10/2003 Time:13:00 Depth:

Analytical Results for Sample # 261927

ICP TOTAL Method: SW6010B

Prep. Batch: 8,175 Prepped: 10/16/2003 15:26 Prepped By: KF Prep Method: SW3050B

Analysis Batch: 20046 Analyzed: 10/17/2003 15:26 Analyzed By: TNT

Analyte	Result	Units	DF	RL	Surr Range	Qualifiers
Total Lead	**1.42**	ug/Wipe	1	2.50		J

Sample #: 261928 Station ID: 94CTNEW03OCT10004DT Tag #:
Sampled: 10/10/2003 Time:13:00 Depth:

Analytical Results for Sample # 261928

ICP TOTAL Method: SW6010B

Prep. Batch: 8,175 Prepped: 10/16/2003 15:29 Prepped By: KF Prep Method: SW3050B

Analysis Batch: 20046 Analyzed: 10/17/2003 15:29 Analyzed By: TNT

Analyte	Result	Units	DF	RL	Surr Range	Qualifiers

EnviroData Group

Shaw Environmental & Infrastructure, Inc.
Project Name: New Haven, CT
Project #: 845832

Contract #: 2144
Chain of Custody #: 24,645

Sample #: 261928	Station ID: 94CTNEW03OCT10004DT	Tag #:
Sampled: 10/10/2003 Time:13:00	Depth:	

Analytical Results for Sample # 261928

Total Lead	**2.60** ug/Wipe	1	2.50

All samples were received intact and properly preserved unless otherwise noted.
The results reported relate only to the samples tested.
This report shall not be reproduced except in full, without written approval of this laboratory.

ACCREDITED IN ACCORDANCE WITH
Lab# E87286

ACCREDITED
Lab#: 100343

Project Manager: Lisa Sexton
Lisa Sexton

Lab Director/ QA Manager: —

Please contact Lisa Sexton with any questions.

:ific tests covered by A2LA and NELAC accreditations meet the requirements of these accreditation standards.

Data Qualifiers

Qualifier	Description
A	E. coli Present.
A'	E. coli absent.
B	Analyte detected in associated Method Blank.
C	Sample Result confirmed.
D	Results reported from dilution.
E	Analyte concentration exceeds calibration range.
F	Unable to analyze due to sample matrix interference.
H	Sample was received or analyzed past the established holding time.
J	Estimated concentration.
K	Sample contained lighter hydrocarbon fractions.
L	Sample contained heavier hydrocarbon fractions.
M	Matrix Spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Presumptive evidence of analyte present.
O	Sample hydrocarbon pattern does not match calibration standard pattern.
P	Percent difference between primary and secondary column concentrations exceeds acceptance lim
Q	Laboratory Control Sample outside acceptance limits.
R	Data unusable.
S	Surrogate outside acceptance limits on initial and reanalysis.
S'	Surrogates diluted below detection.
T	Sample received improperly preserved.
U	Analyte not detected.
W	Raised Quantitation or Reporting Limit due to limited sample volume.
Y	Replicate/Duplicate precision outside acceptance limits.
Z'	Calibration criteria exceeded but for this situation acceptable by method.
Z	Calibration criteria exceeded.
M'	Result from Method of Standard Additions (MSA).
Q'	LCS/LCD analyzed due to insufficient sample for MS/MSD.

The uncertainty of analytical results can be calculated using the following equation:

$$n = t*s/1.414$$

where

t=12.706 (Students t value for 95% confidence interval of two replicates)
s= standard deviation of sample and duplicate data
1.414 is square root of the number of replicates (two)

the igroup 261925-28 COC 24645

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No. 67479
Page 1 of 1

Project Name/No. [1] New Haven, CT 845832
Sample Team Members [2] Sim Greer
Profit Center No. [3] 3277001
Project Manager [4] Bill Scouille
Purchase Order No. [6] 845832
Required Report Date [11] 10/20/03

Samples Shipment Date [7] 10/15/03
Lab Destination [8] Envirodata
Lab Contact [9] Sexton
Project Contact/Phone [12] B. Scouille
Carrier/Waybill No. [13] UPS

Bill to: [5] SHAW E&I
312 Directors Dr.
Knoxville, TN. 37923
ATTN. Accounts payable

Report to: [10] SHAW E&I
11499 Chester Rd.
Cincinnati, OH 45246
ATTN. Bill Scouille

White: To accompany samples
Yellow: Field copy

ONE CONTAINER PER LINE

Sample Number [14]	Sample Description/Type [15]	Date/Time Collected [16]	Container Type [17]	Sample Volume [18]	Pre-servative [19]	Requested Testing Program [20]	Condition on Receipt [21]	Disposal Record No. [22]
94 CT NEW 03 Oct 10 001 DT	Dust Sample	10-10-03 1300	Poly	1SF	N/A	LEAD EPA-6010		
94 CT NEW 03 Oct 10 002 DT	Dust Sample	10-10-03 1300	Poly	1SF	N/A	LEAD EPA 6010	FOR LAB USE ONLY	
94 CT NEW 03 Oct 10 003 DT	Dust Sample	10-10-03 1300	Poly	1SF	N/A	LEAD EPA 6010		
94 CT NEW 03 Oct 10 004 DT	Dust Sample	10-10-03 1300	Poly	1SF	N/A	LEAD EPA 6010		
							FOR LAB USE ONLY	

Special Instructions: [23]

Possible Hazard Identification: [24]
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal: [25]
Return to Client ☐ Disposal by Lab ☒ Archive _____ (mos.)

Turnaround Time Required: [26]
Normal ☐ Rush ☒ 48 hour

QC Level: [27]
I. ☐ II. ☐ III. ☐ Project Specific (specify):

1. Relinquished by [28] (Signature/Affiliation) Jim Greer	Date: 10/10/03 Time:	1. Received by [28] (Signature/Affiliation) W H Kemp / ITCOP	Date: 10/15/03 Time: 1100
2. Relinquished by (Signature/Affiliation) W H Kemp / ITCOP	Date: 10/15/03 Time: 1100	2. Received by (Signature/Affiliation)	Date: Time:
3. Relinquished by (Signature/Affiliation) UPS	Date: 10/16/03 Time: 930	3. Received by (Signature/Affiliation) Jan Z 25	Date: 10/16/03 Time: 930

Comments: [29]
Fax Data to Bill Scouille @ 513, 782-4663

*See back of form for special instructions.

MCA 3/15/91

APPENDIX G
Waste Characterization Analytical Results

COMPLETE ENVIRONMENTAL TESTING, INC.

80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet@cetlabs.com

July 29, 2002

Mr. Kevin Hayes
Diversified Technology Corp.
556 Washington Ave.
North Haven, CT 06473-1121

Project: New England
Project #: 01-607-101
CET #: 02070797
Soil: NHCT-1; PRI-1; RMA-1; WMA-1; WRI-1
Collection Date(s): 7/16/02; 7/22/02; 7/23/02; 7/25/02
Solid: CCDBMA-1; CCDBMA-2; CCDNHCT-1; CCDNRI-1; CCDPRI-1; CCDPRI-2; CCDRMA-1; CCDWMA-1; CCDWRI-1
Collection Date(s): 7/16/02; 7/22/02; 7/23/02; 7/25/02

PREP ANALYSIS:

TCLP, Metals [EPA 1311]

	CCDNHCT-1	NHCT-1	CCDPRI-1	CCDPRI-2	PRI-1	CCDWRI-1
TCLP, Metals	Completed [7/27/02]	Completed [7/27/02]	Completed [7/27/02]	Completed [7/27/02]	Completed [7/27/02]	Completed [7/27/02]

TCLP, Metals [EPA 1311]

	WRI-1	CCDNRI-1	CCDRMA-1	RMA-1	CCDBMA-1	CCDBMA-2
TCLP, Metals	Completed [7/27/02]	Completed [7/27/02]	Completed [7/27/02]	Completed [7/27/02]	Completed [7/27/02]	Completed [7/27/02]

TCLP, Metals [EPA 1311]

	CCDWMA-1	WMA-1
TCLP, Metals	Completed [7/27/02]	Completed [7/27/02]

NOTES:
[] Indicates Date Prep Test Completed; ND is Not Detected.

Project#: 01-607-101
Cet#: 02070797
Project: New England

July 29, 2002

ANALYSIS:

TCLP Metals [EPA 6010] Units: mg/1 Analysis Date: 7/29/02

	CCDNHCT-1	NHCT-1	CCDPRI-1	CCDPRI-2	PRI-1	CCDWRI-1
Lead	0.32	1900	0.018	71	2500	0.40

TCLP Metals [EPA 6010] Units: mg/1 Analysis Date: 7/29/02

	WRI-1	CCDNRI-1	CCDRMA-1	RMA-1	CCDBMA-1	CCDBMA-2
Lead	320	0.18	0.028	1900	0.042	12

TCLP Metals [EPA 6010] Units: mg/1 Analysis Date: 7/29/02

	CCDWMA-1	WMA-1
Lead	0.073	3500

Sincerely,

David Ditta
Laboratory Director

Notes:
[ ]Indicates Date Prep Test Completed; ND is Not Detected.

CHAIN OF CUSTODY

COMPLETE ENVIRONMENTAL TESTING, INC.
80 Lupes Drive
Stratford, CT 06615
Tel (203) 377-9984
FAX (203) 377-9952

COMPANY NAME AND ADDRESS
DTC
556 WASHINGTON AVE
NORTH HAVEN CT 06473

REPORT TO:	PROJECT #:	PROJECT LOCATION:	PURCHASE ORDER #:	SAMPLED BY:
Kevin Hayes	01-607-101	New England		Kevin Hayes

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
KPH	7/26	10:37		7-26	1037
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

ANALYSIS REQUIRED

SAMPLE #	SAMPLE LOCATION	DATE	TIME	SAMPLE MATRIX	PRIORITY YES / NO	# OF CONTAINERS	TCLP Lead
CCDNHCT-1	New Haven, CT	7/25/02		Solid	NO	1	X
NHCT-1*	New Haven, CT	7/25/02		Soil	NO	1	X
CCDPRI-1	Providence RI	7/22/02		Solid	NO	1	X
CCDPRI-2	"	"		"	"	"	X
PRI-1	"	"		Soil	"	"	X
CCDWAI-1	Warwick, RI	"		Solid	"	"	X
WRI-1	"	"		Soil	"	"	X
CCDNRI-1	Narragansett RI	"		Solid	"	"	X
CCDRMA-1	Roslindale MA	7/23/02		Solid	"	"	X

SPECIAL INSTRUCTIONS

COMMENTS

APPENDIX H
Hazardous Waste Management Records

EPHM-2 REV. 5/97

CHV2502

STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Hazardous Waste MANIFEST PROGRAM
79 Elm St., Hartford, CT 06106-5127

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

FOR STATE USE ONLY

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. C·T·P·0·0·0·0·2·7·4·1·7	Manifest Document No. 55872	2. Page 1 of 1	Information in the shaded areas is not required by Federal law, but may be required by State law.

3. Generator's Name and Mailing Address
United States Army Res Ctr
200 Wintergreen Avenue
New Haven, CT 06515-0000

4. Generator's Phone (513) 782-4557

A. State Manifest Document Number: CT F 1055872

B. G.S.I. (Gen. Site Address): SAME

5. Transporter 1 Company Name: Clean Harbors Env Services Inc
6. US EPA ID Number: M A D 0 3 9 3 2 2 2 5 0

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

C. S.T.I. (Trans. Lic. Plate #): PUR1730H
D. Tran. Phone (800) 522-4645
E. S.T.I. (Trans. Lic. Plate #)
F. Trans. Phone ( )

9. Designated Facility Name and Site Address
~~Clean Harbors Of Conn Inc~~
51 Broderick Road
Bristol, CT 06010
10. US EPA ID Number: C T D 0 0 0 6 0 4 4 6 8

G. State Facility's ID (Not Required)
H. Facility's Phone 860 583-8917

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.
a. Hazardous waste, solid, n.o.s., (LEAD CONTAMINATED SAND), 9, NA3077, PG III, 9, NA3077, III	XX1	CM	XXX25	Y	EPA D008 / STATE
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

J. Additional Descriptions for Materials Listed Above
(S),(E),(ERG#:171)
a. c.
b. d.

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

15. Special Handling Instructions and Additional Information
11a CM150878
IN EMERGENCY, CALL CHES 1-800-645-8265
WO# CM650216
Can# CHV2502

Point of Departure:

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, and all applicable State laws and 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	Signature	Month Day Year
Pedro Camacho	Pedro Camacho	08 28 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
James Pikul	James Pikul	08 28 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

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	Month Day Year
Michael J Garrity	[illegible]	08 28 03

GENERATOR / TRANSPORTER / FACILITY

IN THE EVENT OF A SPILL, CONTACT THE NATIONAL RESPONSE CENTER, U.S. COAST GUARD 1-800-424-8802. FOR SPILLS WITHIN CONNECTICUT, CONTACT CT DEP - OIL AND CHEMICAL SPILL RESPONSE AT (860) 424-3338

EPA Form 8700-22 (Rev. 9/91) Form Approved OMB No.2050-0039.

COPY 1: FACILITY MAILS TO DESTINATION STATE

Clean Harbors has appropriate permits for & will accept the waste the generator is shipping.

2433300
TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

[redacted]

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

The CAT Scale Compa[illegible] guarantees that our scales will give an accurate weight. What makes us different from [illegible]er scale companies is that we back up our guarantee with cash.

CAT SCALE COLLECTOR CARD INSIDE

"WEIGH WHAT WE SAY OR WE PAY"

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight we will immediately check our scale and we will:

(1) Reimburse you for the cost of the overweight fine if our scale is wrong. OR
(2) A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

1) Post bond and request a court date.
2) Or call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE (Toll Free)
3) IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Citation Dept.

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale.

DATE: 08/28/03

STEER AXLE: 23120 lb — 63500 / 33900

DRIVE AXLE: 40380 lb — 29600

TRAILER AXLE: 0 lb

* GROSS WEIGHT: 63500 lb

SCALE LOCATION: CAT 598 TRAVEL CENTERS I 84 AT EXIT 28 MILLDALE CT

Shaw Env. NH Army Reserve

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

CM650216 CTF105892 CANCM12502

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

COMPANY: Clean Harbors TRACTOR #: 464 TRAILER #: N/A

FEE: 5.00 WEIGHMASTER OR WEIGHER SIGNATURE: [signature] RE-WEIGH TICKET # (IF REWEIGH)

DRIVER IN TRUCK UNLESS CHECKED HERE ___

MER COPY

© CAT SCALE COMPANY® 07/02

STATE OF CONNECTICUT

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Hazardous Waste MANIFEST PROGRAM
79 Elm St., Hartford, CT 06106-5127

#5164

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

FOR STATE USE ONLY

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. CTR000827417	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law, but may be required by State law.

3. Generator's Name and Mailing Address
United States Army Res Center
200 Wintergreen Avenue
New Haven, CT 06515-0000
513 782-4557

4. Generator's Phone ( )

A. State Manifest Document Number: CT F1054187

B. G.S.T. (Gen. Site Address): SAME

5. Transporter 1 Company Name: Clean Harbors Env Services Inc
6. US EPA ID Number: H.A.D.0.3.9.3.2.2.2.5.0

C. S.T.I. (Trans. Lic. Plate #): [illegible]

7. Transporter 2 Company Name: DART TRUCKING Company INC
8. US EPA ID Number: OHD009865825

D. Tran. Phone ( ): 781 [illegible]

9. Designated Facility Name and Site Address
Spring Grove Resource Recovery
4879 Spring Grove Avenue
Cincinnati, OH 45232
10. US EPA ID Number: O.H.D.0.6.0.8.1.6.6.2.9

E. S.T.I. (Trans. Lic. Plate #): [illegible]

F. Tran. Phone ( ): 800 [illegible]

G. State Facility's ID (Not Required):

H. Facility's Phone: 513 681-5736

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.
a. Hazardous waste, liquid, n.o.s., (Lead), 9, NA3082, PG III, 9, NA3082, III	XX3	DM	XX1.65	G	EPA D008 / STATE
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above: Interim / Final / Interim / Final

15. Special Handling Instructions and Additional Information
IN EMERGENCY, CALL CHEM 1-800-619-8255
WO# CH650216

Point of Departure:

[redacted] fully and accurately described above by [redacted] are in all respects in proper condition for transport by highway [redacted] regulations, and all applicable State laws and regulations.

[redacted] program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be [redacted] practicable method of treatment, storage, or disposal currently available to me which minimizes the present [redacted] OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and [redacted] that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
[redacted]	[signature]	11	07	03

[redacted] of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
[redacted] J. JONES	Martha P. Jones	11	07	03

[redacted] of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
[redacted] LASKY	[signature]	11	07	03

[redacted] 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	Month	Day	Year
[illegible]	[signature]	11	11	03

GENERATOR

FACILITY

IN THE EVENT OF A SPILL, CONTACT CT DEP - OIL AND CHEMICAL SPILL RESPONSE AT (860) 424-3338

EPA Form 8700-22 (Rev. 9/91) Form Approved OMB No. 2050-0039

Clean Harbors has appropriate permits for & will accept the waste the generator is shipping.

COPY 3: FACILITY TO GENERATOR

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC.
AND DISPOSAL RESTRICTION NOTIFICATION FORM LDR-1 (REV. 8/01)

MANIFEST NO.: CTT-1054187

HE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE ODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE AND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a)(2), THE EPA WASTE CODE, ASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

NSTRUCTIONS — COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

olumn 1 - Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).
olumn 2 - Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.
olumn 3 - Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.
olumn 4 - LDR Handling Code: Circle the appropriate handling code, as follows:

1 = The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.

1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.

2 = The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.

3 = The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and a revised LDR notification would be required.

4 = The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(2): the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form. These constituents are being treated to comply with 40 CFR 268.45.

5 = The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.

6 = The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.

*** NOTE: IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.

SECTION I. CHARACTERISTIC WASTES D001 THROUGH D043

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
_____ [ ]	D001 Ignitables, except High TOC subcategory	[ ] WW [ ] Non-WW	1 2 3 4 6
_____ [ ]	D001 High TOC Ignitable Liquids Subcategory (Greater than or equal to 10% TOC)	[ ] Non WW only	1A 3 6
_____ [ ]	D002 Corrosives	[ ] WW [ ] Non-WW	1 2 3 4 6
_____ [ ]	D003		
	[ ] Reactive Sulfide, per 261.23(a)(5)	[ ] WW [ ] Non-WW	1 3 4 5 6
	[ ] Reactive Cyanide, per 261.23(a)(5)	[ ] WW [ ] Non-WW	1 3 4 5 6
	[ ] Explosive, per 261.23(a)(6), (7) & (8)	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] Water Reactive, per 261.23(a)(2), (3) & (4)	[ ] Non WW only	1 2 3 4 6
	[ ] Other Reactive, per 261.23(a)(1)	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] Unexploded Ordnance, Emergency Response	[ ] WW [ ] Non-WW	1 3 4 5 6
_____ [ ]	D004 Arsenic	[ ] WW [ ] Non-WW	1 2 3 4 6
_____ [ ]	D005 Barium	[ ] WW [ ] Non-WW	1 2 3 4 6
_____ [ ]	D006		
	[ ] Cadmium	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] Cadmium Containing Batteries	[ ] Non WW only	2 3 6
Hen	[X] D007 Chromium	[ ] WW [ ] Non-WW	1 2 3 4 6
	[X] D008		
	[X] Lead	[ ] WW [X] Non-WW	1 2 3 4 6
	[ ] Lead Acid Batteries	[ ] Non WW only	2 3 6

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC.
LAND DISPOSAL RESTRICTYION NOTIFICATION FORM LDR-1

MANIFEST NO.: CTF 1054187

SECTION I. CHARACTERISTIC WASTES D001 THROUGH D043 (continued)

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
_____ [ ]	D009		
	[ ] Low Mercury, less than 260 mg/kg Mercury	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] High Mercury Organic Subcategory	[ ] Non-WW only	2 3 6
	[ ] High Mercury Inorganic Subcategory	[ ] Non-WW only	2 3 6
_____ [ ]	D010 Selenium	[ ] WW [ ] Non-WW	1 2 3 4 6
_____ [ ]	D011 Silver	[ ] WW [ ] Non-WW	1 2 3 4 6
_____ [ ]	D012 Endrin	[ ] WW [ ] Non-WW	2 3 4 5 6
_____ [ ]	D013 Lindane	[ ] WW [ ] Non-WW	2 3 4 5 6
_____ [ ]	D014 Methoxychlor	[ ] WW [ ] Non-WW	2 3 4 5 6
_____ [ ]	D015 Toxaphene	[ ] WW [ ] Non-WW	2 3 4 5 6
_____ [ ]	D016 2,4-D	[ ] WW [ ] Non-WW	2 3 4 5 6
_____ [ ]	D017 2,4,5-TP (Silvex)	[ ] WW [ ] Non-WW	2 3 4 5 6
_____ [ ]	D018 Benzene	[ ] WW [ ] Non-WW	1 2 3 4 6
_____ [ ]	D019 Carbon tetrachloride	[ ] WW [ ] Non-WW	1 2 3 4 6
_____ [ ]	D020 Chlordane	[ ] WW [ ] Non-WW	1 2 3 4 6
_____ [ ]	D021 Chlorobenzene	[ ] WW [ ] Non-WW	1 2 3 4 6
_____ [ ]	D022 Chloroform	[ ] WW [ ] Non-WW	1 2 3 4 6
_____ [ ]	D023 o-Cresol	[ ] WW [ ] Non-WW	1 2 3 4 6
_____ [ ]	D024 m-Cresol	[ ] WW [ ] Non-WW	1 2 3 4 6
_____ [ ]	D025 p-Cresol	[ ] WW [ ] Non-WW	1 2 3 4 6
_____ [ ]	D026 Cresol	[ ] WW [ ] Non-WW	1 2 3 4 6
_____ [ ]	D027 1,4-Dichlorobenzene	[ ] WW [ ] Non-WW	1 2 3 4 6
_____ [ ]	D028 1,2-Dichloroethane	[ ] WW [ ] Non-WW	1 2 3 4 6
_____ [ ]	D029 1,1-Dichloroethylene	[ ] WW [ ] Non-WW	1 2 3 4 6
_____ [ ]	D030 2,4-Dinitrotoluene	[ ] WW [ ] Non-WW	1 2 3 4 6
_____ [ ]	D031 Heptachlor (and its epoxide)	[ ] WW [ ] Non-WW	1 2 3 4 6
_____ [ ]	D032 Hexachlorobenzene	[ ] WW [ ] Non-WW	1 2 3 4 6
_____ [ ]	D033 Hexachlorobutadiene	[ ] WW [ ] Non-WW	1 2 3 4 6
_____ [ ]	D034 Hexachloroethane	[ ] WW [ ] Non-WW	1 2 3 4 6
_____ [ ]	D035 Methyl ethyl ketone	[ ] WW [ ] Non-WW	1 2 3 4 6
_____ [ ]	D036 Nitrobenzene	[ ] WW [ ] Non-WW	1 2 3 4 6
_____ [ ]	D037 Pentachlorophenol	[ ] WW [ ] Non-WW	1 2 3 4 6
_____ [ ]	D038 Pyridine	[ ] WW [ ] Non-WW	1 2 3 4 6
_____ [ ]	D039 Tetrachloroethylene	[ ] WW [ ] Non-WW	1 2 3 4 6
_____ [ ]	D040 Trichloroethylene	[ ] WW [ ] Non-WW	1 2 3 4 6
_____ [ ]	D041 2,4,5-Trichlorophenol	[ ] WW [ ] Non-WW	1 2 3 4 6
_____ [ ]	D042 2,4,6-Trichlorophenol	[ ] WW [ ] Non-WW	1 2 3 4 6
_____ [ ]	D043 Vinyl Chloride	[ ] WW [ ] Non-WW	1 2 3 4 6

SECTION II. SPENT SOLVENT WASTES F001 THROUGH F005

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / CONSTIUENTS	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
_____ [ ]	F001 [ ] F002 [ ] F003 [ ] F004 [ ] F005	[ ] WW [ ] Non-WW	3 4 5 6

_____ [ ] 1. ALL F001-F005
_____ [ ] 2. Acetone
_____ [ ] 3. Benzene
_____ [ ] 4. n-Butyl alcohol
_____ [ ] 5. Carbon disulfide
_____ [ ] 6 Carbon tetrachloride
_____ [ ] 7. Chlorobenzene
_____ [ ] 8. o-Cresol
_____ [ ] 9. m-Cresol (difficult to distinguish from p-cresol)
_____ [ ] 10. p-Cresol (difficult to distinguish from m-cresol)
_____ [ ] 11. Cresol - mixed isomers (sum of o-, m- and p-cresol)
[ ] 12. Cyclohexanone
[ ] 13. o-Dichlorobenzene
[ ] 14. 2-Ethoxyethanol (F005 only)
[ ] 15. Ethyl acetate
[ ] 16. Ethyl benzene
[ ] 17. Ethyl ether
[ ] 18. Isobutyl alcohol
[ ] 19. Methanol
[ ] 20. Methylene chloride
[ ] 21. Methyl ethyl ketone
[ ] 22. Methyl isobutyl ketone
[ ] 23. Nitrobenzene
[ ] 24. 2-Nitropropane (F005 only)
[ ] 25. Pyridine
[ ] 26. Tetrachloroethylene
[ ] 27. Toluene
[ ] 28. 1,1,1-Trichloroethane
[ ] 29. 1,1,2-Trichloroethane
[ ] 30. Trichloroethylene
[ ] 31. 1,1,2-Trichloro-1,2,2-trifluoroethane
[ ] 32. Trichloromonofluoromethane
[ ] 33. Xylene - mixed isomers (sum of o-, m-, and p-xylene)

LEAN HARBORS ENVIRONMENTAL SERVICES, INC.
AND DISPOSAL RESTRICTYION NOTIFICATION FORM LDR-1

MANIFEST NO.: CTT-1054187

SECTION III. CALIFORNIA LIST WASTES

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / CONSTIUENTS	COLUMN 3. WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
_____	Hazardous waste containing one or more of the following California List constituents:	[ ] WW [ ] Non-WW	1 2 3 4 5 6

[ ] ALL CALIFORNIA LIST CONSTITUENTS
[ ] Liquids with nickel greater than or equal to 134 mg/l
[ ] Liquids with thallium greater than or equal to 130 mg/l
[ ] Liquids with PCB's > or = 50 ppm
[ ] Waste containing HOC's > or = 1,000 mg/kg

SECTION IV. OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F039, K-, U-, AND P-CODES)

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / CONSTIUENTS	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
_____	_____	[ ] WW [ ] Non-WW	3 4 5 6
_____	_____	[ ] WW [ ] Non-WW	3 4 5 6
_____	_____	[ ] WW [ ] Non-WW	3 4 5 6
_____	_____	[ ] WW [ ] Non-WW	3 4 5 6
_____	_____	[ ] WW [ ] Non-WW	3 4 5 6

[ ] CHECK HERE IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE AND ATTACH LDR-1 CONTINUATION SHEET.
[ ] CHECK HERE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT. IDENTIFY F039 CONSTITUENTS BY COMPLETING SECTIONS II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED ADDENDUM TO THIS FORM

SECTION V. CONTACT NAME AND DATE

Print Name: S.J. PENSANTI Date: 11/07/03

KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic o inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors includ the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities tre hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentatic for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% tot organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reu at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CI 268.2(i)]

APPENDIX I
Non-hazardous Waste Management Records

WM N.E.E.T.
WASTE MANAGEMENT

Northeast Environmental Transport, Inc.
P.O. Box 144 - Portland, CT 06480
(860) 342-0667 • Fax: (860) 342-4866
Out of State 1-800-272-3867

E.P.A. AGENCY

CT, MA, RI, VT, NH, ME GENERATORS
EPA New England
1 Congress Street
Boston, MA 02114-2023
(617) 918-1111

NY GENERATORS
EPA Region 2
290 Broadway, 26th Floor
New York, NY 10007-1866
(212) 264-6770

9972050

EMERGENCY RESPONSE TELEPHONE
#1-800-272-3867

TK# 18765

ASBESTOS DISPOSAL & DOCUMENTATION FORM

Job Number A0553 P.O. # 206599
Contractor ASBEST-O-TECH INC
Address 355 Sackett Point Rd, #4
City North Haven State CT Zip 06473
Telephone Number 203-288-9552
Date Container Del. 12/10/02 Date of Pickup 5/28/03
Type of Container V289-10640
VOLUME 2 **CY** Friable ☐ Non-Friable ☑
MUST BE IN CUBIC YARDS
Bag ☑ Drum ☐ Wrapped ☐ Other ☐
RQ, ASBESTOS, 9, NA2212, PG III

GENERATOR/BUILDING OWNER
94th RSC Attn: AFRC-CMR-Environmental
Address 1 Saratoga Blvd.
City Auer State MA Zip 01430-5016
Phone Number 978-796-2247

GENERATING LOCATION
US Army Reserve Firing Range
Address 200 Winterguard
City New Haven State CT Zip
Phone Number 203-389-7908

I certify the above named material does not contain free liquid as defined by 40 CFR part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to NESHAP standards for asbestos waste disposal found in 40 CFR part 61.150.

Shipper's Certification: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations.

AUTHORIZED SIGNATURE Gerald Hoffman

Transporter 1: N/A Name N/A Address N/A Telephone #
Driver: N/A Signature Registration #: State / # Date:
Acknowledgement of receipt of materials.

Transporter 2: Waste Management N.E.E.T., Inc., PO Box 144, Portland, CT 06480 1-800-272-3867
Driver: Signature Registration #: 277 64 A CT State / # Date: 5/28/03
Acknowledgement of receipt of materials.

WASTE MANAGEMENT N.E.E.T., INC. • 203 PICKERING STREET • PORTLAND, CT 06480 • PHONE: (800) 272-3867 PERMIT # 1130559-PO
Transfer Date: 6/3/03 By: Hugo Dolmas
Discrepancy:
Certification of transfer of materials covered by this manifest.

Transporter 3: SAM'S TRANSPORTATION Name GEORGETOWN, MA Address 888-352-6689 Telephone #
Driver: Signature Registration #: 05 20955 ME State / # Date: 6/4/03
Acknowledgement of receipt of materials.

Landfill Name: ~~WASTE MANAGEMENT OF NEW HAMPSHIRE~~ Phone No: ~~603-330-0217~~
Location: ~~ROCHESTER, NH 03839~~ Permit #: ~~SW-SP-95-001~~
Approximate Volume of Asbestos Received: ~~2 CYDS~~
Discrepancy If Any:
Received by: Date: 6/4/03

Lloyd Terminals, Inc.

LLOYD TERMINALS, INC.
MARINE TERMINAL
PORT OF NEW HAVEN
34-40 LLOYD STREET
NEW HAVEN, CT 06513
(203)562-4424

№ 616520

TIME	WEIGHT	
	36480	GROSS
	31200	TARE
	5280	NET

TICKET # _____

I.D. # _____ VEHICLE # Mario

SUPPLIER CODE _____

SUPPLIER NAME Shaw Environ

COMMODITY LT PRICE _____

DESCRIPTION _____

TOTAL _____ DATE _____

VEHICLE OWNER ASSUMES RESONSIBILITY FOR ANY DAMAGE TO VEHICLE BY CRANE.

WEIGHMASTER	MAN ON	MAN OFF

THIS IS TO CERTIFY THAT I DELIVERED THE ABOVE MATERIAL FOR THE ABOVE NAMED SUPPLIER, who is the owner of this material. This will also certify that I, on behalf of the above named supplier, am familiar with Lloyd's list of unacceptable/prohibited materials, and that the above load does not contain any unacceptable/prohibited materials, including any Class I (chlorofluorocarbons) or Class II (hydrochlorofluorocarbons) refrigerants (FREON), which under Federal Clean Air Act, must be reclaimed, not vented.

SIGNED: X _____
Agent or Representative of Supplier

WEIGHMASTER CERTIFICATE

Attn..
Tony
Steel taken to
KC Metals
34 Lloyd St
New Haven, CT

WASTE MANAGEMENT
Woodbridge, CT
(203) 387-2021
(203) 389-3525 F

Ticket: 377711 Driver: STEVE DEVLIN100 Date Requested: 08/26/
Opened by: BSALG Date Dispatched: 08/27/
Customer: 100-37409 SHAW E&I INC/U S ARMY(TP)*****
200 WINTERGREEN AVE
NEW HAVEN CT 06515 419-295-9601
Attn.: CHUCK
Requested by: NAT ACCTS

Load Type: EMPTY & RET Map Code: Map Grid: OWR

Service	Yards	Weight	Job	Special Descrip
30 YD ROLLOFF	30		PO#/21	05T-P71

CUSTOMER NEEDS BILL OF LADING / CERTIFICATES OF DISPOSAL
WEIGHT TICKETS
8/27 E/R PLEASE DO BY NOON
CUSTOMER NEEDS BILL OF LADING / CERTIFICATES OF DISPOSAL
WEIGHT TICKETS
8/27 E/R PLEASE DO BY NOON NEW NAT ACCTS CUST.

Signature: Date: 8/29

WM 203-1383

WASTE MANAGEMENT
WM NEW HAVEN TRANSFER STATION
19 WHEELER ST
NEW HAVEN CT 06515
(203) 624-1919 FAX 624-4820

P.O. Box 3735
Woodbridge, CT
(203) 387-2021
(203) 389-3525

TICKET: 172766
DATE: 08/27/2003
TIME: 08:53 - 09:06

CUSTOMER: 30 / WM NEW HAVEN MAS # 87
ORIGIN: NT / NEW HAVEN
TRUCK: 402374 LICENSE: NJ
MANIFEST: 377711 / TRAILER #
COMMENT:

YARDS: 30
GROSS: 12860 LBS
TARE: 7440 LBS Manual
NET: 5420 LBS

NHO

COMMODITY	UNIT	UNIT
CDT / CONSTRUCTION DEMO T	T	2.71

IN OPERATOR: MARIO LOPEZ OUT OPERATOR: MARIO LOPEZ

DRIVER:

WASTE MANAGEMENT

(203) 387-2021
(203) 389-3525 Fax

Ticket: 379684 Driver: DOMINIC PROTIOO Date Requested: 09/04/200:
Opened by: RDUNN2 Date Dispatched: 09/05/200:
Customer: 100-37409 SHAW E&I INC/U S ARMY(TP)*****
200 WINTERGREEN AVE
NEW HAVEN CT 06515 419-295-9801
Attn.: CHUCK
Requested by: TONY/MIKE MAC/

Load Type: EMPTY & RET Map Code: Map Grid: OWR

Service	Quantity	Yards	Weight	Job	Special Description
10 YD ROLLOFF	1.00	30	OPEN TOP TEMP		05T-P71
EXTRA TONS	1.00		30YD DISPOSAL		05T

CUSTOMER NEEDS BILL OF LADING / CERTIFICATES OF DISPOSAL
WEIGHT TICKETS

Signature: _____ Date: _____

57810 6

WM 203-1393

NEW HAVEN TRANSFER STATION
19 GREELEY ST
NEW HAVEN CT 06519

TICKET: 177657
DATE: 09/05/2003
TIME: 13:31

CUSTOMER: 387 NE NEW HAVEN MOG 1.07
YARDS: 30
GROSS: 24000 LBS
TARE: 9160 LBS
NET: 14840 LBS
LICENSE:
TRAILER #:
COMMENT:

COMMODITY	UNIT	QNTY
CDT / CONSTRUCTION DEMO T	T	2.58

DRIVER: _____

10/14/2003 08:32 FAX 203 389 3745 WASTE MANAGEMENT OF CT 004

WASTE MANAGEMENT

Woodbridge, CT
(203) 387-2021
(203) 389-3525 F

Ticket: 381121 Driver: DOMINIC PROTIUO Date Requested: 09/11/
ened by: TGAGNE Date Dispatched: 09/12/
Customer: 100-37409 SHAW E&I INC/U S ARMY(TP)*****
200 WINTERGREEN AVE
NEW HAVEN CT 06515 419-295-9601
Attn.: CHUCK
Requested by: 6302181891 STEPHANIE

Load Type: EMPTY & RETURN Map Code: Map Grid: OWR

Service	Quantity	Yards	Weight	Job	Special Descrip
30 YD ROLLOFF	1.00	30	OPEN TOP TEMP		OST-P/1
EXTRA TONS	1.00		30YD DISPOSAL		OST

CUSTOMER NEEDS BILL OF LADING / CERTIFICATES OF DISPOSAL
WEIGHT TICKETS
09/12 E/R PLEASE P/UP TODAY IF POSSIBLE

Signature: Date:

WM 203-1393

Cherry Hill

Ciro Associates LLC (203)488-1168 Ticket No : 1
51 Ciro Road Fax: 203-483-1570 Date : 09/
North Branford, CT 06471

Customer: WTM
WASTE MANAGEMENT
495 BLAKE STREET

NEW HAVEN, CT 06515

4059959 Gross : 42020 Scale 1 In 1:14:
Tare : 35240 Scale 1 Out 1:23:
C&D Construction & Demolition Net : 6780 lb
Price/ tn$ 73.0000 3.39 tn

Weigh Master: DOUG

Driver:

Driver Name:

Remarks :
NEW HAVEN

Material $ 24
Delvry $
Misc $
Tax $
Total $ 24

APPENDIX J
Lead Monitoring Analytical Results

PSC ANALYTICAL SERVICES

INDUSTRIAL HYGIENE ENVIRONMENTAL TESTING

EPA PA00136 NJ DEP PA020 AIHA ACCREDITATION NO 100439
PA DEP 06-353 CT DPH PH0238 NC DENR 599
NY DOH/NELAP accredited lab ID# 10903

4418 Pottsville Pike Reading, PA 19605
(Tel) 610-921-8833 (Fax) 610-921-8667

October 08, 2003

Bill Scoville
Shaw Environmental Infrastructure
11499 Chester Road
Cincinnati, OH 45246

TEL: (513) 782-4964
FAX (513) 782-4663

RE: 845832 New Haven Order No.: R03100138

Dear Bill Scoville:

PSC Analytical Services received 8 samples on 10/3/2003 9:45:00 AM for the analyses presented in the following Certificate of Analytical Results.

The analyses and all data for associated QC met regulatory and/or laboratory specifications. Exceptions will be noted in an enclosed Case Narrative.

The results on the attached Certificate of Analytical results relate only to items tested or to the samples as received by the laboratory. This Certificate of Analytical Results shall not be reproduced, except in full, without the written approval of PSC Analytical, Reading, PA.

Please note that any unused portion of the samples will be disposed of 30 days following issuance of report, unless you have requested otherwise.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Fred Usbeck
Manager, CIH

the i group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No. 567468
Page 1 of 1 R03100138

Project Name/No. [1] New Haven 845832
Sample Team Members [2] S. Green
Profit Center No. [3] 3272001
Project Manager [4] Bill Scoville
Purchase Order No. [6] 845832
Required Report Date [11] 10/10/03

Samples Shipment Date [7] 10/2/03
Lab Destination [8] PSC
Lab Contact [9] Mike Salum
Project Contact/Phone [12] Bill Scoville 513-782 4964
Carrier/Waybill No. [13] UPS

Bill to: [5] SHAW E&I
312 Directors Dr.
Knoxville, TN. 37923

Report to: [10] SHAW E&I
11499 Chester Rd.
Cincinnati OH 45246

White: To accompany samples
Yellow: Field copy

ONE CONTAINER PER LINE

Sample Number [14]	Sample Description/Type [15]	Date/Time Collected [16]	Container Type [17]	Sample Volume [18]	Pre-servative [19]	Requested Testing Program [20]	Condition on Receipt [21]	Disposal Record No. [22]
94CTNEW03Aug22 001	Air	08/22/03 1520	37mm Cassette	780 L	N/A	LEAD NIOSH 7300	FOR LAB USE ONLY	
94CTNEW03Aug22 002	Air	08/22/03 1520	37mm Cassette	891 L	N/A	LEAD NIOSH 7300		
94CTNEW03Aug22 003	Air	08/22/03 1520	37mm Cassette	797 L	N/A	LEAD NIOSH 7300		
94CTNEW03Aug22 004	Air	08/22/03 1520	37mm Cassette	817 L	N/A	LEAD NIOSH 7300		
94CTNEW03Aug25 001	Air	08/25/03 1540	37mm Cassette	763 L	N/A	LEAD NIOSH 7300	FOR LAB USE ONLY	
94CTNEW03Aug25 002	Air	08/25/03 1545	37mm Cassette	912 L	N/A	LEAD NIOSH 7300		
94CTNEW03Aug25 003	Air	08/25/03 1540	37mm Cassette	764 L	N/A	LEAD NIOSH 7300		
94CTNEW03Aug25 004	Air	08/25/08 1535	37mm Cassette	808 L	N/A	LEAD NIOSH 7300		

Special Instructions: [23]

Possible Hazard Identification: [24]
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal: [25]
Return to Client ☐ Disposal by Lab ☒ Archive _____ (mos.)

Turnaround Time Required: [26]
Normal ☒ Rush ☒ 48 hr Normal

QC Level: [27]
I. ☐ II. ☐ III. ☐ Project Specific (specify):

1. Relinquished by [28] (Signature/Affiliation) Jim Brown	Date: Time:	1. Received by [28] (Signature/Affiliation) [illegible] / ITcorp	Date: 10/1/03 Time: 1700
2. Relinquished by (Signature/Affiliation) [illegible] / ITcorp	Date: 10/1/03 Time: 1700	2. Received by (Signature/Affiliation)	Date: Time:
3. Relinquished by (Signature/Affiliation)	Date: Time:	3. Received by (Signature/Affiliation) DKB PSC	Date: 10/3/03 Time: 0945

Comments: [29] Report Data to Bill Scoville (513 782 4964) kps

*See back of form for special instructions.

MCA 3/15/91

Sample Receipt Checklist

PSC Analytical Services, Reading PA

Work Order Number: R030100138 Date/Time received: 10/3/03 0945

Client: D I Group / Shaw-Findlay Checklist completed by: DKB (Initials) 10/3/03 (Date)

MS data entry completed by: WLB (Initials) 10/6/03 (Date) Reviewed by: DK (Initials) 10-8-03 (Date) 6-DK

1. Carrier: Client (UPS) FedEx US Mail Airborne Express PSC Courier Other:
2. Cooler Temperature: 21 °C Specify presence of: Ice Blue Ice (No Ice)
3. Shipping container/cooler received in good condition? (Yes) No
4. Sample containers received intact? (Yes) No
5. Custody seals intact on shipping container/cooler? Yes No (N/A)
6. Custody seals intact on sample bottles? Yes No (N/A)
7. Chain of custody present? (Yes) No
8. Chain of custody signed - relinquished **AND** received? (Yes) No
9. Chain of custody agrees with sample labels? (Yes) No
   No extraneous or missing samples; all sampling info (sampler, Air Volumes, dates/times, etc) matches
10. Samples received in proper containers including headspace requirements? (Yes) No
11. Analysis requirements clearly listed on COC? (Yes) No
12. Sufficient sample volume received for indicated tests? (Yes) No
13. All samples received within holding time/sufficient time to start analysis? (Yes) No
14. Volatile samples received with zero headspace? Yes No (N/A)
    Specify: vials (waters) MeOH jars Soil Kit EnCores Other:
15. Water - pH acceptable upon receipt? Yes No (N/A)

Any "No" response must be detailed in the comments section below. If a CAR is not initiated, explain why.

Client Notification (Regarding which item #s, Date & time, PSC Employee initials, Person contacted):

Comments:

Corrective Action/Resolution (Reference CAR ID #):

PSC USE ONLY circle all applicable codes	PM	>24	>4pm	SUB	COMP	UR	QA

PSC ANALYTICAL SERVICES
4418 Pottsville Pike Reading, PA 19605
(Tel) 610-921-8833 (Fax) 610-921-3667

INDUSTRIAL HYGIENE ENVIRONMENTAL TESTING

EPA PA-00136
PA DEP 06-353
NY DOH/NELAP accredited lab ID# 10903
NJ DEP PA020
CT DPH PH-0238
AIHA ACCREDITATION NO 100439
NC DENR 599

Certificate of Analytical Results
for

Shaw Environmental Infrastructure
11499 Chester Road
Cincinnati, OH 45246

WorkOrder: R03100138
Client Reference: 845832 New Haven

Analyte	Concentration (ug)	Concentration (mg/m³)	Concentration (ppm)	Limit of Detection (ug)	Test Method	Date Analyzed /Analyst
Date Received: 10/03/2003 **Date Sampled:** 08/22/2003 15:20						
Client ID: 94CTNEW03Aug22001 **Lab ID:** -01A **Matrix:** Filter **Air Vol.(L):** 780						
Lead	1340	1.71	--	0.3	N7300 MCE	10/07/03 0:00 JDC
Date Received: 10/03/2003 **Date Sampled:** 08/22/2003 15:20						
Client ID: 94CTNEW03Aug22002 **Lab ID:** -02A **Matrix:** Filter **Air Vol.(L):** 891						
Lead	1230	1.38	--	0.3	N7300 MCE	10/07/03 0:00 JDC
Date Received: 10/03/2003 **Date Sampled:** 08/22/2003 15:20						
Client ID: 94CTNEW03Aug22003 **Lab ID:** -03A **Matrix:** Filter **Air Vol.(L):** 797						
Lead	1450	1.83	--	0.3	N7300 MCE	10/07/03 0:00 JDC
Date Received: 10/03/2003 **Date Sampled:** 08/22/2003 15:20						
Client ID: 94CTNEW03Aug22004 **Lab ID:** -04A **Matrix:** Filter **Air Vol.(L):** 817						
Lead	1250	1.53	--	0.3	N7300 MCE	10/07/03 0:00 JDC
Date Received: 10/03/2003 **Date Sampled:** 08/25/2003 15:40						
Client ID: 94CTNEW03Aug25001 **Lab ID:** -05A **Matrix:** Filter **Air Vol.(L):** 763						
Lead	2470	3.24	--	0.3	N7300 MCE	10/07/03 0:00 JDC
Date Received: 10/03/2003 **Date Sampled:** 08/25/2003 15:45						
Client ID: 94CTNEW03Aug25002 **Lab ID:** -06A **Matrix:** Filter **Air Vol.(L):** 912						
Lead	360	0.395	--	0.3	N7300 MCE	10/07/03 0:00 JDC
Date Received: 10/03/2003 **Date Sampled:** 08/25/2003 15:40						
Client ID: 94CTNEW03Aug25003 **Lab ID:** -07A **Matrix:** Filter **Air Vol.(L):** 764						
Lead	1330	1.74	--	0.3	N7300 MCE	10/07/03 0:00 JDC

PSC ANALYTICAL SERVICES
4418 Pottsville Pike Reading, PA 19605
(Tel) 610-921-8833 (Fax) 610-921-9567

INDUSTRIAL HYGIENE ENVIRONMENTAL TESTING

EPA PA-00136
PA DEP 06-353
NY DOH/NELAP accredited lab ID# 10903
NJ DEP PA020
CT DPH PH 0230
AIHA ACCREDITATION NO 100439
NC DENR 599

Certificate of Analytical Results
for

Shaw Environmental Infrastructure
11499 Chester Road
Cincinnati, OH 45246

WorkOrder: R03100138
Client Reference: 845832 New Haven

Analyte	Concentration (ug)	Concentration (mg/m³)	Concentration (ppm)	Limit of Detection (ug)	Test Method	Date Analyzed /Analyst
Date Received: 10/03/2003 **Date Sampled:** 08/25/2003 15:35						
Client ID: 94CTNEW03Aug25004 **Lab ID:** -08A **Matrix:** Filter **Air Vol.(L):** 808						
Lead	18.5	0.0228	--	0.3	N7300 MCE	10/07/03 0:00 JDC

General Notes:
<: Less than the indicated limit of detection (LOD).
--: Information not available or not applicable.
Concentrations are calculated based on air volumes provided by the client
H - Hold Time excedance

PSC ANALYTICAL SERVICES

INDUSTRIAL HYGIENE ENVIRONMENTAL TESTING

EPA PA-00136 NJ DEP PA020 AIHA ACCREDITATION NO 100439
PA DEP 06-353 CT DPH PH-0238 NC DENR 599
NY DOH/NELAP accredited lab ID# 10903

4418 Pottsville Pike Reading, PA 19605
(Tel) 610-921-8833 (Fax) 610-921-9667

October 09, 2003

Bill Scoville
Shaw Environmental Infrastructure
11499 Chester Road
Cincinnati, OH 45246

TEL: (513) 782-4964
FAX (513) 782-4663

RE: New Haven 845832 (Silica) Order No.: R03100104

Dear Bill Scoville:

PSC Analytical Services received 1 sample on 10/3/03 9:45:00 AM for the analyses presented in the following Certificate of Analytical Results.

The analyses and all data for associated QC met regulatory and/or laboratory specifications. Exceptions will be noted in an enclosed Case Narrative.

The results on the attached Certificate of Analytical results relate only to items tested or to the samples as received by the laboratory. This Certificate of Analytical Results shall not be reproduced, except in full, without the written approval of PSC Analytical, Reading, PA.

Please note that any unused portion of the samples will be disposed of 30 days following issuance of report, unless you have requested otherwise.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Fred Usbeck
Manager, CIH

PSC ANALYTICAL SERVICES
4418 Pottsville Pike Reading, PA 19605
(Tel) 610-921-8833 (Fax) 610-921-9667

INDUSTRIAL HYGIENE ENVIRONMENTAL TESTING

EPA PA00136
PA DEP 06-353
NY DOH/NELAP accredited lab ID# 10903
NJ DEP PA020
CT DPH PH-0238
AIHA ACCREDITATION NO 100439
NC DENR 599

Certificate of Analytical Results
for

Shaw Environmental Infrastructure
11499 Chester Road
Cincinnati, OH 45246

WorkOrder: R03100104
Client Reference: New Haven 845832 (Silica)

Analyte	Concentration (ug)	Concentration (mg/m³)	Concentration (ppm)	Limit of Detection (ug)	Test Method	Date Analyzed /Analyst	
Date Received: 10/03/2003 **Date Sampled:** 08/26/2003 13:30							
Client ID: 94CTNEW03AUG26-001 **Lab ID:** -01A **Matrix:** Filter **Air Vol.(L):** 386							
Respirable Particulate Matter	820	2.12	--	50	N0600	10/08/03 0:00	SUB
Crystalline Silica	260	0.674	--	10	Crystalline Silica	10/08/03 0:00	SUB

General Notes:
<: Less than the indicated limit of detection (LOD).
--: Information not available or not applicable.
Concentrations are calculated based on air volumes provided by the client
H - Hold Time excedance

the i group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No. 566691
Page 1 of 1 (R03100104)

Project Name/No. [1] NewHaven 845832
Sample Team Members [2] Jim Greer
Profit Center No. [3] 3272001
Project Manager [4] Bill Scoville
Purchase Order No. [6] 845832
Required Report Date [11] 10/10/03

Samples Shipment Date [7] 10/2/03
Lab Destination [8] PSC
Lab Contact [9] Mike Salum
Project Contact/Phone [12] Bill Scoville 513-782-4964
Carrier/Waybill No. [13] UPS

Bill to: [5] SHAW E&I
312 Directors Dr.
Knoxville, TN. 37923

Report to: [10] SHAW E&I
11499 Chester Rd.
Cincinnati, OH 45246

ONE CONTAINER PER LINE

Sample Number [14]	Sample Description/Type [15]	Date/Time Collected [16]	Container Type [17]	Sample Volume [18]	Pre-servative [19]	Requested Testing Program [20]	Condition on Receipt [21]	Disposal Record No. [22]
94CTNEW03Aug26-001	AIR	08/26/03 1330	37mm Cassette	386 L	N/A	Silica - NIOSH 7500		
							FOR LAB USE ONLY	
							FOR LAB USE ONLY	

Special Instructions: [23]

Possible Hazard Identification: [24]
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal: [25]
Return to Client ☐ Disposal by Lab ☒ Archive _____ (mos.)

Turnaround Time Required: [26]
Normal ☒ ~~Rush~~ ☐ Normal

QC Level: [27]
I. ☐ II. ☐ III. ☐ Project Specific (specify): _____

1. Relinquished by [28] (Signature/Affiliation) Jim Greer	Date: Time:	1. Received by [28] (Signature/Affiliation) WB Scoville / ITCorp	Date: 10/1/03 Time: 1700
2. Relinquished by (Signature/Affiliation) WB Scoville / ITCorp	Date: 10/1/03 Time: 1700	2. Received by (Signature/Affiliation)	Date: Time:
3. Relinquished by (Signature/Affiliation)	Date: Time:	3. Received by (Signature/Affiliation) NKB PSC UPS	Date: 10/3/03 Time: 0945

Comments: [29]

MCA 3/15/91

White: To accompany samples
Yellow: Field copy
*See back of form for special instructions.

Sample Receipt Checklist

PSC Analytical Services, Reading PA

Work Order Number: R03100104

Date/Time received: 10/3/03 0945

Client: ~~O I Group~~ SHAW E&I

Checklist completed by: DKB (Initials) 10/3/03 (Date)

LIMS data entry completed by: Raj (Initials) 10/3/03 (Date)

Reviewed by: DK (Initials) 10.3.03 (Date)

1. Carrier: Client (UPS) FedEx US Mail Airborne Express PSC Courier Other:
2. Cooler Temperature: 21 °C Specify presence of: Ice Blue Ice (No Ice)
3. Shipping container/cooler received in good condition? (Yes) No
4. Sample containers received intact? (Yes) No
5. Custody seals intact on shipping container/cooler? Yes No (N/A)
6. Custody seals intact on sample bottles? Yes No (N/A)
7. Chain of custody present? (Yes) No
8. Chain of custody signed - relinquished **AND** received? (Yes) No
9. Chain of custody agrees with sample labels? (Yes) No
   No extraneous or missing samples; all sampling info (sampler,Air Volumes, dates/times, etc) matches
10. Samples received in proper containers including headspace requirements? (Yes) No
11. Analysis requirements clearly listed on COC? (Yes) No
12. Sufficient sample volume received for indicated tests? (Yes) No
13. All samples received within holding time/sufficient time to start analysis? (Yes) No
14. Volatile samples received with zero headspace? Yes No (N/A)
    Specify: vials (waters) MeOH jars Soil Kit EnCores Other:
15. Water - pH acceptable upon receipt? Yes No (N/A)

Any "No" response must be detailed in the comments section below. If a CAR is not initiated, explain why.

Client Notification (Regarding which item #s, Date & time, PSC Employee initials, Person contacted):

Comments:

ective Action/Resolution (Reference CAR ID #):

PSC USE ONLY circle all applicable codes	PM	>24	>4pm	SUB	COMP	UR	QA

APPENDIX K
Clearance Certification Letter

IT Corporation
11499 Chester Road
Cincinnati, OH 45246-4012
Tel. 513.782.4700
Fax. 513.782.4807
A Member of The IT Group

October 23, 2003

Lloyd Crothers
Regional Facility Manager
SSGT George D. Libbey U.S. Army Reserve Center
200 Wintergreen Avenue
New Haven, CT 06515

RE: Range Cleaning Clearance Certification – Facility ID CT007, 94th RSC
USARC Nationwide Indoor Rifle Range Cleanup Project
Contract No. DACA 27-99-D-0021, Delivery Order No. 14

Dear Mr. Crothers:

With this letter, IT Corporation certifies that the recent range cleaning activities have successfully attained the project clearance objectives and the range is approved for your reoccupancy. Range clearance procedures consisted of the following:

- A surface-by-surface visual examination to verify that:
  - The lead hazard control work was completed as required
  - No known or suspected lead-dust surfaces are still present in the range at levels that exceed the project clearance level of 200 µg/sf.
- Clearance sampling consisting of collecting wipe samples from floor, wall, and ceiling surfaces and analyzing the samples for lead.
- Final floor sealing to achieve the 94th RSC requested level of 40 µg/sf of lead on floor, wall, and ceiling surfaces.

A formal project report for the range cleanup will be submitted upon completion of all waste disposal activities and receipt of disposal certificates.

Please note that although the range has been cleaned to below the project clearance levels, small amounts of lead dust may be present in the range. Any remodeling activities that may cause a release of dust on wall and floor surfaces should be undertaken in consideration of the Occupational Safety and Health Administration (OSHA) Construction Industry Standard for Lead (29 CFR 1926.62). This OSHA standard should be reviewed before any remodeling activities are conducted. The OSHA standard requires certain controls to reduce or maintain worker exposures less than the Permissible Exposure Limit (PEL) of 50 µg of lead per cubic meter (m^3). The employer must protect the worker from lead.

We appreciated your cooperation and support during the range cleanup. Should you have any questions, please contact the undersigned at (513) 782-4700.

Sincerely,

IT CORPORATION

William H. Scoville, P.E.
Project Manager

cc: David Dierken, U.S. Army Corps of Engineers, Louisville District
Gary Puryear, 94th RSC

NEW HAVEN

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 subcontracted with Covino Environmental Consultants, Inc. (CEC) to accomplish this task.

The objective of this task is twofold. First, the site-specific 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. Secondly, the summary reports prepared for each facility will provide the information necessary to plan future remediation efforts at the facilities on a worst-first basis.

The facility surveyed for this report was the Staff Sergeant George B. Libbey Army Reserve Center, 200 Wintergreen Avenue, New Haven, 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 is supplied by two boilers located in a boiler room in the basement and is distributed through forced hot water supply-and-return piping to perimeter radiators. Additional heating for the rifle range and for the assembly hall is supplied by air handlers. No suspect ACBM associated with the heating system were noted. The Main Building which contains 28,100 square feet of floor space.

The OMS is used for maintenance. The OMS contains 6,700 square feet of space. The building is heated by five ceiling-mounted space heaters.

Timothy Downey and Benjamin Lombard of CEC conducted the survey on September 28, 1994. The CEC inspector 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 all 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 nonfriable ACBM (materials that, when dry, may not be reduced to powder by hand pressure) were identified at the site. Nonfriable ACBM included floor tiles and beige exterior window caulking.

CEC's assessment of the New Haven site is that the condition of most ACBM presents limited potential hazard. Based on the results of the assessment, no remedial actions are recommended at this time. However, an O&M plan should be implemented to minimize potential hazards.

In addition, CEC returned to the site on June 26, 1996 to conduct a quality control visual reinspection. No additional suspect materials were observed 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 nonfriable ACBM is $10,115.

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.

C. The inner cavity of fire doors, which sometimes contains ACBM insulation, were not inspected.

NEW HAVEN SCANNED

SSG George D. Libbey USARC (CT007)

Facility Description

The SSG George D. Libbey USARC is located on the west side of Wintergreen Avenue in New Haven, New Haven County, Connecticut (Figure 3-13). The 5.75-acre facility, purchased in 1954, currently contains the reserve center, maintenance shop, and extensive paved and unpaved parking areas. The remainder of the project property, located at the base of the slope, is flat and wooded. The facility is bounded to the northeast by Wintergreen Avenue, playing fields, and an abandoned trap quarry, and apartment buildings to the southeast. The land to the southwest and northwest is rolling and wooded.

Environmental Setting

Topography and Physiographic Zone

The topography and physiographic zone for the Libbey USARC are the same as those described for the AMSA 69 facility in Milford.

Bedrock, Surficial Geology, and Soils

The underlying bedrock formations in the Western Coastal Ecoregion consist primarily of metamorphic gneisses and schists in northern sections and Triassic sedimentary and igneous rocks in southern sections. The soils are developed from glacial till in upland interior regions and local stratified deposits of sand, gravel, and silt in river valleys. The surficial geology of the project vicinity is directly related to the underlying bedrock, glaciation, and wind and water action. The majority of the soils within the Libbey USARC are classified as Manchester gravelly sandy loam, which are nearly level (0 to 3 percent slope), excessively drained soils formed on outwash terraces of stream valleys (USDA 1979b). The soils in the northwest portion of the property are classified as Podunk fine sandy loam, which is moderately well drained and has a nearly level (0 to 3 percent) slope.

Connecticut River Drainage

The Libbey USARC lies within the Connecticut Central Coastal Area, which comprises all the land draining into Long Island Sound between the Housatonic River Basin on the west and the Connecticut River Basin on the east. The facility lies approximately 55 yards northeast of Wintergreen Brook, which flows into the West River and empties into the west side of New Haven Harbor.

Prehistoric Context

The Libbey USARC facility is situated adjacent to Wintergreen Brook, just east of a steep land formation known as West Rock. Several archaeological sites have been identified in proximity to the project property (University of Connecticut/Storrs site files). Information on several of these sites was not available, but the site names suggest they were either quarries or rockshelters. Included in this group are the College Woods (CT 93-22), Judges Cave (CT 93-10), and Fry's Cave (CT 62-11) prehistoric sites.

The identified sites for which information is available indicate that rockshelter sites predominate in the area. This makes sense given the topography and location in the interior. The Pine Rock Site (CT 93-2), located less than one-half mile east of the project facility, contained evidence of occupation as early as the Late Archaic period. Diagnostic Brewerton and Small Stemmed projectile points were collected along with bannerstones, ulus, and hammerstones. This assemblage could indicate an even earlier occupation of the site, perhaps during the Middle Archaic Period.

The area was also utilized during the Woodland Period, as evidenced at the Pine Rock Rockshelter. Along with the earlier Archaic materials, aboriginal pottery was recovered from the site. It is probable that the lithic resources available in the area were utilized through the Contact Period: a number of historic quarry sites are recorded here.

Expected Prehistoric Resources

Sites types within the Libbey USARC property would most likely be related to the extraction or use of the natural rock outcrops in the immediate vicinity. These features would have provided shelter as well as raw materials for prehistoric groups in the area. In addition to actual extraction areas, expected sites could include lithic reduction areas, small camps, or resource processing camps. Given the existing database, prehistoric deposits within any intact portions of the project facility would likely be associated with Middle Archaic through Contact Period populations.

Historic Context

New Haven was first visited by the Dutch several years before the arrival of English settlers. The Dutch designated the place now occupied by New Haven as "Red Mount." This area was known as Quinnipiac, a name given by the local Indian tribe to the nearby river (present-day Wallingford River) which forms the eastern boundary of the settlement. The New Haven area was settled by a group of more than 250 Boston colonists led by John Davenport and Samuel Eaton. In 1638 Davenport, Eaton, and a group of fellow Bostonians claimed the coastal land between Saybrook and Fairfield known as Quinnipiac. Their purchase included all the lands within the former limits of the old towns of New Haven, Branford, and Wallingford and the towns of East Haven, Woodbridge, Bethany, Meriden, North Branford, Cheshire, Hamden, North Haven, and part of Orange.

The town's physical layout had changed somewhat from its orginal plan by the end of the Federal Period. In 1824 the orginal nine-square configuration is still visible, but much infilling of the surrounding former vast estates or quarters had taken place. These estates had been subdivided, although some still retained the names of the original proprietors, such as Oyster Point Quarter on the northwest side of the harbor (Doolittle 1824). The original lay-out was now called "Old Town," with "New Town" situated directly east and extending to the East River. Old Town contained the city's civic and institutional edifices including Yale College, founded in 1700, the largest college institution in the state at that time. The General Hospital was chartered in 1826 and was the first such institution of its kind in the state of Connecticut (Barber 1838). A large subdivision called "Hillhouse Quarter" was also laid out to the immediate north of "Old Town." This area, along with New Town, became the site of substantial residential and commercial developments during the nineteenth century.

By 1830 New Haven's population had doubled to 10,678 inhabitants. The rapidly increasing population necessitated the creation of an exterior water supply, which led to the chartering of the New Haven Water Company in 1849. The company first project was to use an old dam at Whitneyville as the base for a public water works project, which raised the dam to create a large reservoir. By 1862 the company had laid out 18 miles of water mains throughout the city. The New Haven Gas Company was chartered in 1847, and by 1848 the first private houses in the city were illuminated by gas; the following year street lamps were lit.

Until 1853 the city of New Haven was not divided into wards; that year four wards were created, and four years later this was increased to six wards (Figure 3-14). The city's population had swelled to 22,529 residents by that time. A building to be used for City Hall was built in 1862 on the site of the old county house and jail east of the Green on Church Street. Transportation improvements during this period included the arrival of the New York and New Haven Railroad, which opened in 1848 and replaced the earlier steamboat service between the two ports. The arrival of the railroad afforded excellent opportunities for the shipment of heavy freights and promoted a boom in local industries.

Industrial expansion in New Haven peaked during the second half of the nineteenth century. A great number and variety of local manufactories were established within the city limits. These included 12 firms involved in the manufacture of carriages, of which Henry Hooker and Company was the largest not only in New Haven but also in the world. The manufacture of hardware specialties was also prosperous, with J.B. Sargent and Company leading the way. The Winchester Repeating Arms Company was organized in 1858 and became the largest regional manufacture of firearms, with buildings covering two city squares. Other local industries included the manufacture of clocks, rubber goods, corsets, and musical instruments.

By 1870 the city's population had reached 50,840 residents, necessitating a further political division of the geographic area into 12 wards. The census of 1890 lists 86,095 residents working in more than 700 manufacturing establishments in the city. There were also more than 600 professional men, mostly lawyers and doctors, working within the city limits. Between 1872 and 1888 custom duties collected $5,500,800 from the city of New Haven, making its port the seventh in standing of United States seaports.

Expected Historic Resources

A review of seventeenth through nineteenth-century maps of New Haven did not reveal the presence of land improvements or structures within the facility boundaries (Anon. 1641; Wadsworth 1748; Doolittle 1824; Whiteford 1852). However, given the early historic settlement and network of regional and local trails, the facility has the potential to contain under-documented Native American or Colonial sites dating to the seventeenth and eighteenth centuries. The presence and integrity of any under-documented historic resources within the New Haven project facility is dependent upon the degree of previous disturbances related to facility construction and associated earthmoving activity.

Results of Previous Archaeological Studies

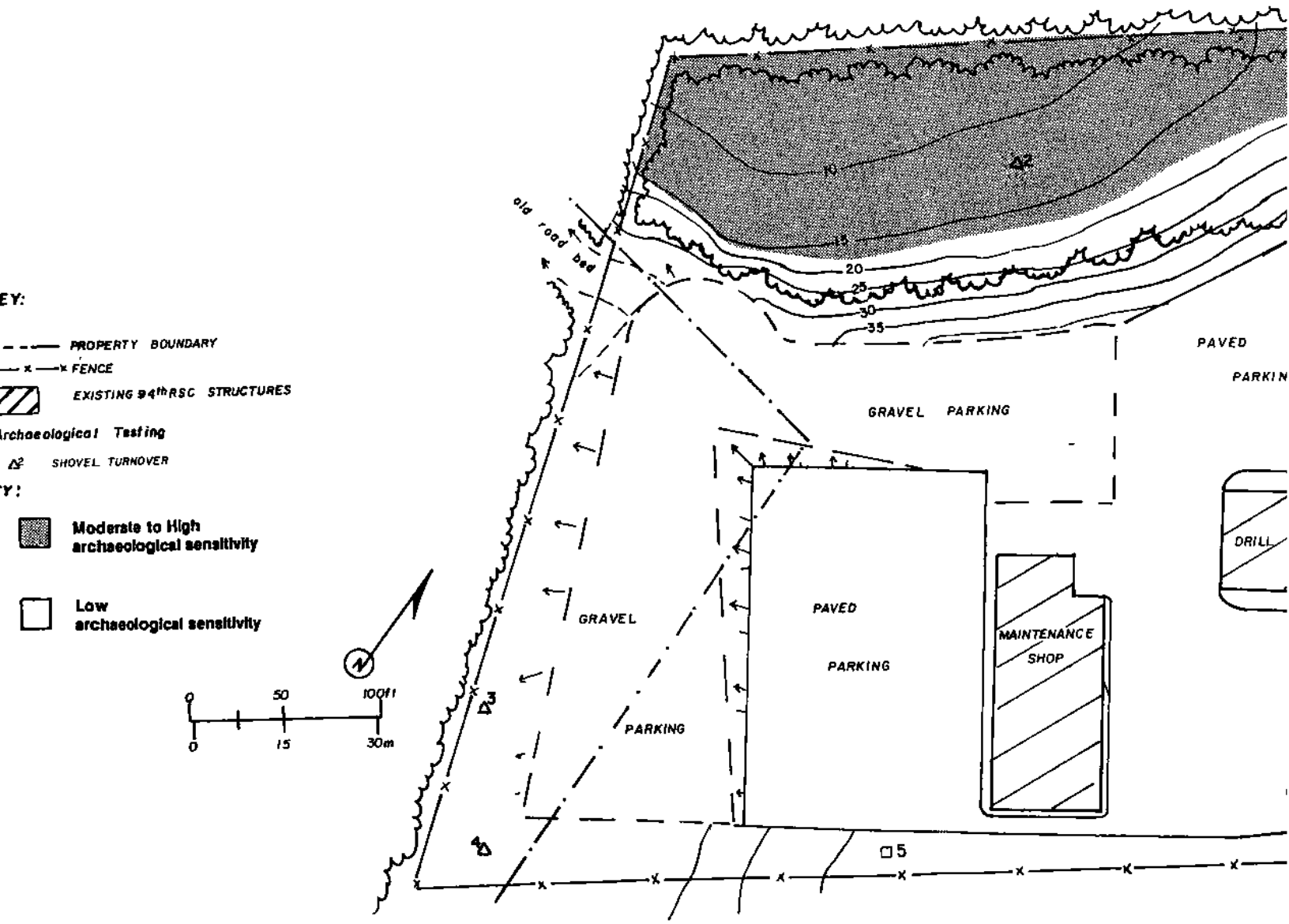
The 1979 archaeological survey of the Libbey USARC reported that 2,500 sq m located near Wintergreen Brook appeared to contain intact soils (Hammer 1983). This area was investigated by six test pits containing intact sandy soils with cobbles and gravel. An intensive archaeological survey of the parcel was not recommended.

Results of Validation Survey

The validation survey included a walkover of the facility to reassess the previous determination of low sensitivity and recommendation for no further work. A total of four shovel turnovers was used to verify the presence of disturbed soils throughout the facility (Figure 3-15). Two of the profiles revealed disturbed fill soils resulting from the facility construction (see Appendix B). The remaining two shovel turnovers were placed in the northwest portion of the property at the base of the slope on a floodplain of the Wintergreen Brook. These revealed intact, moderately well-drained fine sandy loam (Podunk series). Based on the walkover survey, a review of 1952 through 1988 facility plans, shovel turnovers, and USDA soil survey map, it was determined that all but the northwest portion of the property had been disturbed as a result of machine grading and filling, building and parking lot construction, and the installation of underground utilities (see Figure 3-15). Nineteenth-century field debris (i.e., brick, bottle glass, ceramic sherds) was surface collected from the disturbed soils of the sewer easement at the rear of the property (see Appendix A).

Conclusion/Recommendation

Based on the proximity to the Wintergreen Brook and favorable soil conditions, the northwest section of the Libbey USARC property possesses a moderate archaeological sensitivity for intact prehistoric resources (see Figure 3-15). The remainder of the facility, due to the degree of previous disturbance, possesses a low archaeological sensitivity for intact cultural resources. This includes the disturbed area from which historic materials were collected. An intensive survey (Phase I) of the area having moderate sensitivity is recommended. This area encompasses an estimated 48,390 sq ft (4500 sq m).



George D. Libbey USARC (CT007) project facility, showing the location of shovel turnovers and

HISTORIC RESOURCES INVENTORY
BUILDINGS AND STRUCTURES

HIST-6 REV. 6/83

NEW HAVEN

SCANNED

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): SSG. George D. Libbey U. S. Army Reserve Center (Historic):
2. TOWN / CITY: New Haven — VILLAGE: — COUNTY:
3. STREET AND NUMBER (and / or location): 200 Winter Green Avenue
4. OWNER(S): 94th U. S. 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: [X] Yes ☐ No — INTERIOR ACCESSIBLE: [X] Yes ☐ No — IF YES, EXPLAIN: active military facility - permission required

DESCRIPTION

7. STYLE OF BUILDING: Contemporary - American International — DATE OF CONSTRUCTION: 1954
8. MATERIAL(S) (Indicate use or location when appropriate)
   - ☐ Clapboard ☐ Asbestos siding [X] Brick ☐ Other (Specify)
   - ☐ Wood shingle ☐ Asphalt siding ☐ Fieldstone
   - ☐ Board & batten [X] Stucco ☐ Cobblestone
   - ☐ Aluminum siding ☐ Concrete Type: ☐ Cut stone Type:
9. STRUCTURAL SYSTEM
   - ☐ Wood frame ☐ Post and beam ☐ Balloon
   - [X] Load-bearing masonry ☐ Structural iron or steel
   - ☐ Other (Specify)
10. ROOF (Type)
    - ☐ Gable [X] Flat ☐ Mansard ☐ Monitor ☐ Sawtooth
    - ☐ Gambrel ☐ Shed [X] Hip ☐ Round ☐ Other (Specify)
    - (Material): ☐ Wood shingle ☐ Roll asphalt ☐ Tin ☐ Slate
    - [X] Asphalt shingle [X] Built up ☐ Tile ☐ Other (Specify)
11. NUMBER OF STORIES: One — APPROXIMATE DIMENSIONS: 213' x 152'
12. CONDITION (Structural): ☐ Excellent [X] Good ☐ Fair ☐ Deteriorated — (Exterior): ☐ Excellent [X] Good ☐ Fair ☐ Deteriorated
13. INTEGRITY (Location): [X] On original site ☐ Moved — WHEN? — ALTERATIONS: [X] Yes ☐ No — IF YES, EXPLAIN: stucco veneer placed over brick; hip roofs built over original flat roofs.
14. RELATED OUTBUILDINGS OR LANDSCAPE FEATURES
    - ☐ Barn ☐ Shed [X] Garage ☐ Other landscape features or buildings (Specify)
    - ☐ Carriage house ☐ Shop ☐ Garden
    - five-bay maintenance shop (MS) garage
15. SURROUNDING ENVIRONMENT
    - ☐ Open land [X] Woodland ☐ Residential [X] Scattered buildings visible from site
    - ☐ Commercial ☐ Industrial ☐ Rural ☐ High building density
16. INTERRELATIONSHIP OF BUILDING AND SURROUNDINGS

Fenced reserve center is adjacent to college campus athletic fields, in rocky, wooded area.

(OVER)

DESCRIPTION (continued)

17. OTHER NOTABLE FEATURES OF BUILDING OR SITE (Interior and/or exterior)

SIGNIFICANCE

18. ARCHITECT
Reisner & Urbahn

BUILDER

19. HISTORICAL OR ARCHITECTURAL IMPORTANCE

See attached architectural description and historical significance statement.

SOURCES

Fort Devens Real Property Office Records
Facility Records

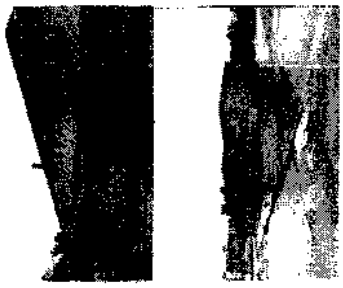
PHOTO

PHOTOGRAPHER
Kirk Van Dyke

DATE
March 21, 1995

VIEW
Looking southwest R2 F2D, 21

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 02860

20. SUBSEQUENT FIELD EVALUATIONS

THREATS TO BUILDING OR SITE

☐ None known ☐ Highways ☐ Vandalism ☐ Developers ☐ Other _____

☐ Renewal ☐ Private ☐ Deterioration ☐ Zoning Explanation _____

Community: New Haven
Property Address: 200 Wintergreen Avenue

ARCHITECTURAL DESCRIPTION ***(continued)***

The Staff Sergeant George D. Libbey United States Army Reserve Center was designed by Reisner & Urbahn and built in 1954 as a 1000-man center. The reserve center consists of a main administrative and classroom block, and two attached classroom and drill hall wings, arranged in an F-shaped plan. All sections are built of cinder block, with brick exterior veneer, which was covered over with stucco in a late 1980s renovation. Windows are typically arranged in rows of recessed openings, with no sills, and have replacement metal sashes with two vertical panes. These windows replace the original four- or six-pane, steel sash units. The main administrative and classroom block is a 213-foot by 48-foot, one-story building, with a 20-foot long, four-foot deep entrance with metal and plate glass double doors, offset toward the southeast end of the street (northeast) elevation. The wall contains eight regularly-spaced windows to one side of the entrance, and eighteen to the other. The northwest end of the building is unfenestrated, and contains only double entrance doors. The main block, and the classroom addition originally had flat roofs, which were covered over by the existing asphalt-shingled, low-pitch hip roofs in a late 1980s renovation. A tall, five-foot square, external brick boiler chimney rises from the rear (southwest) elevation at the southeast end. At the center of the rear (southwest) elevation, a row of eleven small windows high on the wall show the location of the locker rooms. This is the only section to have a basement. The classroom wing is a 105-foot by 48-foot building, attached to the main building by a 12-foot wide, 16-foot long connecting corridor which projects from the southeast end of the main block. This wing is also fenestrated with rows of square, recessed windows. Interior features of these two sections include administrative offices and classrooms arranged along double-loaded corridors, a kitchen, locker rooms, rifle range, boiler room, weapons vault, and equipment storage. The drill hall wing is a taller, 72-foot by 52-foot, 22-foot high structure, which retains its original flat, built-up roof, which slopes away slightly from a discrete center ridge for drainage. The drill hall is lit by six-foot high bands of replacement, metal sash windows which span the length of the tops of the long, southeast and northwest side walls. The walls are divided into four wide bays by piers which express the location of the three massive laminated wood beams which support wooden roof joists. The southwest wall of the drill hall contains a roll-type garage door for vehicle access, flanked by two personnel doors. The drill hall has a thick concrete slab floor to support the weight of heavy military vehicles. The southwest and northeast end walls of the drill hall are unfenestrated brick.

One related outbuilding, the Maintenance Shop (MS), is located approximately 60 feet southwest of the drill hall. The maintenance shop, also designed by Reisner & Urbahn, and built in 1954, is a 116 -foot by 53-foot, five-bay, one-story, brick vehicle garage, with a slightly pitched, built-up roof, capped with wide metal coping. A 39-foot by 21-foot boiler house ell is attached to the northwest end. Five large roll-type garage doors with small oval windows fill the front (northeast) bays, and the southeast and northwest side walls are divided into three bays by brick pilasters which support the roof beams. A personnel access door is located in the southeast side of the building. The maintenance shop is lit by a band of windows high on the rear (southwest) elevation.

The S. Sgt. George D. Libbey Reserve Center is located on a 5.75-acre graded lot on the southwest side of Wintergreen Avenue. The land to the southwest and northwest is rolling and wooded. The land to the northeast, across Wintergreen Avenue, consists of open playing fields, and an abandoned trap rock quarry. A cluster of apartment buildings stand to the southeast. The reserve center is completely fenced in around the perimeter. A paved sidewalk runs the length of the front of the building, and a large-bore gun mounted on a carriage is placed on the lawn next to the front entrance. A driveway at the southeast edge of the lot leads to parking areas at the southwest side of the building, and the

maintenance shop. The reserve center lot is almost entirely paved, with narrow strips of grass around the edges of the buildings.

The S. Sgt. George D. Libbey 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. This reserve center is a good example of the "expansible" nature built into the design. The double-loaded corridor arrangement used for smaller 200- or 400-man reserve centers was simply extended to create more space for this large reserve center. A separate additional classroom wing of identical design, connected by a short corridor, was also incorporated. The addition of hipped, asphalt-shingled roofs, and stucco over the original brick has seriously altered the original appearance and architectural integrity of the S. Sgt. George D. Libbey 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 5.75 acres purchased from an unknown party on July 13, 1954.

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)***

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.

Fort Devens
1995 Real Property Files

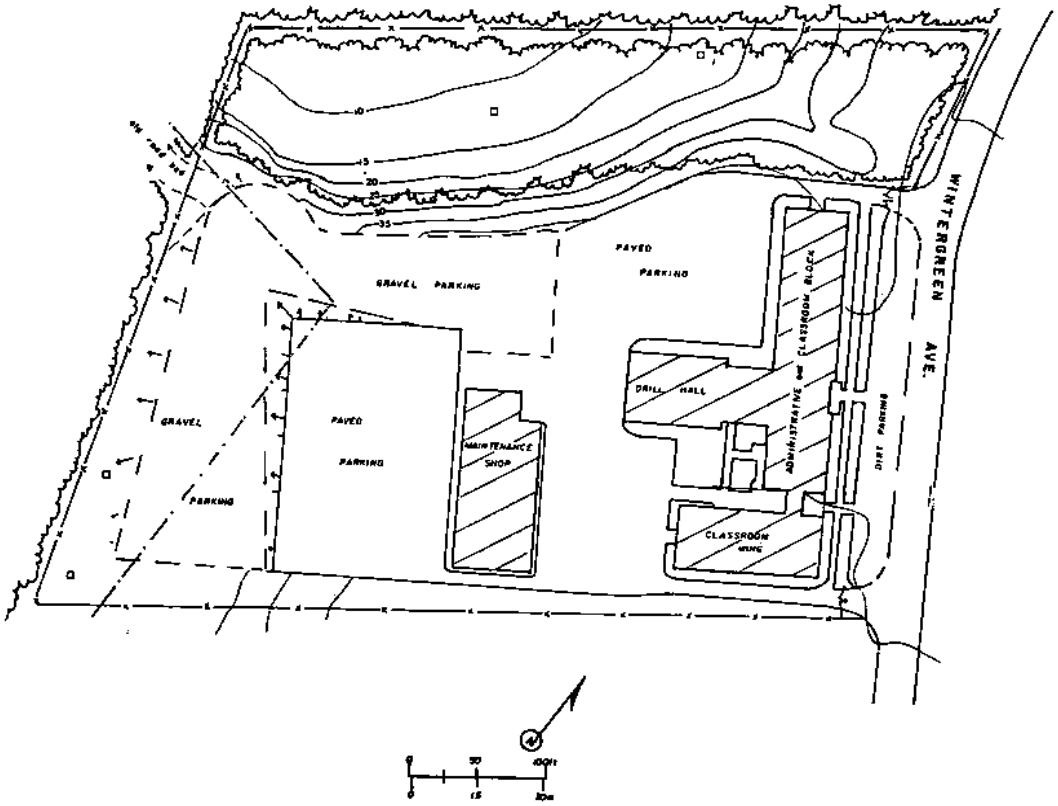
National Archives and Records Administration, Washington, DC and College Park, MD
Record Groups 168, 319, and 407

Ng, James, Facility Manager
1995 Interview with Matt Kierstead, New Haven, Connecticut, March 21, 1995.

S. Sgt. George D. Libbey U.S. Army Reserve Center, New Haven, Connecticut.
1995 Facility Files

Urbahn, Max
1995 Interview with Matt Kierstead, Pawtucket, Rhode Island, May 17, 1995.

SITE PLAN OF THE STAFF SERGEANT GEORGE D. LIBBEY USARC



Appendix E

Regulatory Database Search Reports

The EDR Radius Map
with GeoCheck®

*** SGT George D. Libby USARC, CT**
200 Wintergreen Ave
New Haven, CT 06515

Inquiry Number: 01714247.134r

July 12, 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

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Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	6
Orphan Summary	10
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting Source Map	A-8
Physical Setting Source Map Findings	A-9
Physical Setting Source Records Searched	A-12

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

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

200 WINTERGREEN AVE
NEW HAVEN, CT 06515

COORDINATES

Latitude (North):	41.336400 - 41˚ 20' 11.0''
Longitude (West):	72.955000 - 72˚ 57' 18.0''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	671119.6
UTM Y (Meters):	4577906.5
Elevation:	65 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	41072-C8 NEW HAVEN, 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
NEW HAVEN, USAR CENTER 200 WINTERGREEN AVENUE NEW HAVEN, CT 06515	UST	N/A
U.S. ARMY RESERVE CENTER 200 WINTERGREEN AVE. NEW HAVEN USA (County), CT 06515	CT MANIFEST	N/A

DATABASES WITH NO MAPPED SITES

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

FEDERAL RECORDS

NPL..... National Priority List

EXECUTIVE SUMMARY

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
CORRACTS	Corrective Action Report
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

SHWS	Inventory of Hazardous Disposal Sites
SDADB	Site Discovery and Assessment Database
SWF/LF	List of Landfills/Transfer Stations
SWRCY	Recycling Facilities
LUST	Leaking Underground Storage Tank List
AST	Marine Terminals and Tank Information
CT Spills	Oil & Chemical Spill Database
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
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

EXECUTIVE SUMMARY

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.

STATE AND LOCAL RECORDS

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 3 LWDS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
HAMDEN	LANDFILL	1/4 - 1/2 NE	3	8
CONN. DOT	LANDFILL	1/2 - 1 WNW	5	9

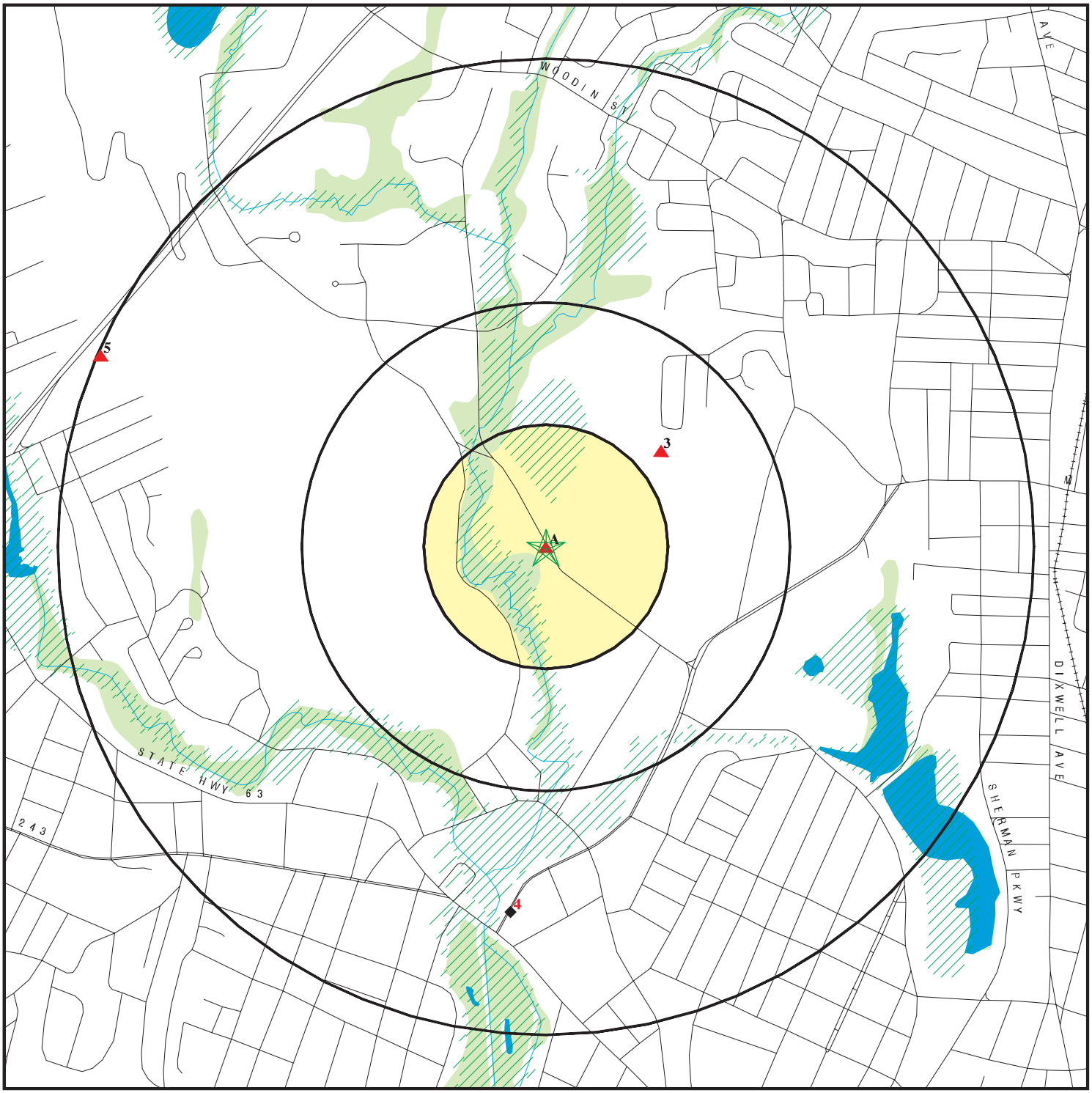
Lower Elevation	Address	Dist / Dir	Map ID	Page
MITE CORP.	COOLING WTR -SURFACE	1/2 - 1 S	4	8

EXECUTIVE SUMMARY

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

Site Name	Database(s)
CT D O T OFFICE OF ENVIRONMENTAL C	CT MANIFEST
CONNECTICUT, DEPARTMENT OF TRANSPO	CT MANIFEST
CONNECTICUT DEPARTMENT OF TRANSPOR	CT MANIFEST
STATE OF CT - DEPT OF RETARDATION	CT MANIFEST
GETTY PETROLEUM	CT Spills, CT MANIFEST
STATE OF CT DOT	CT MANIFEST
STATE OF CT - DEPT OF RETARDATION	CT Spills, CT MANIFEST
USARC	CT MANIFEST
NEW HAVEN JOB CORPS	NY MANIFEST
SOUTHER CT. STATE UNIVERSITY	CT MANIFEST
GETTY SERVICE STATION NO. 6831	LUST
WEST RIVER BRIDGE	SDADB
TOMLINSON BRIDGE	SDADB

OVERVIEW MAP - 01714247.134r



- 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

0 1/4 1/2 1 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: * SGT George D. Libby USARC, CT	CLIENT: CH2M Hill
ADDRESS: 200 Wintergreen Ave New Haven CT 06515	CONTACT: Mary Beth Jacques INQUIRY #: 01714247.134r
LAT/LONG: 41.3364 / 72.9550	DATE: July 12, 2006

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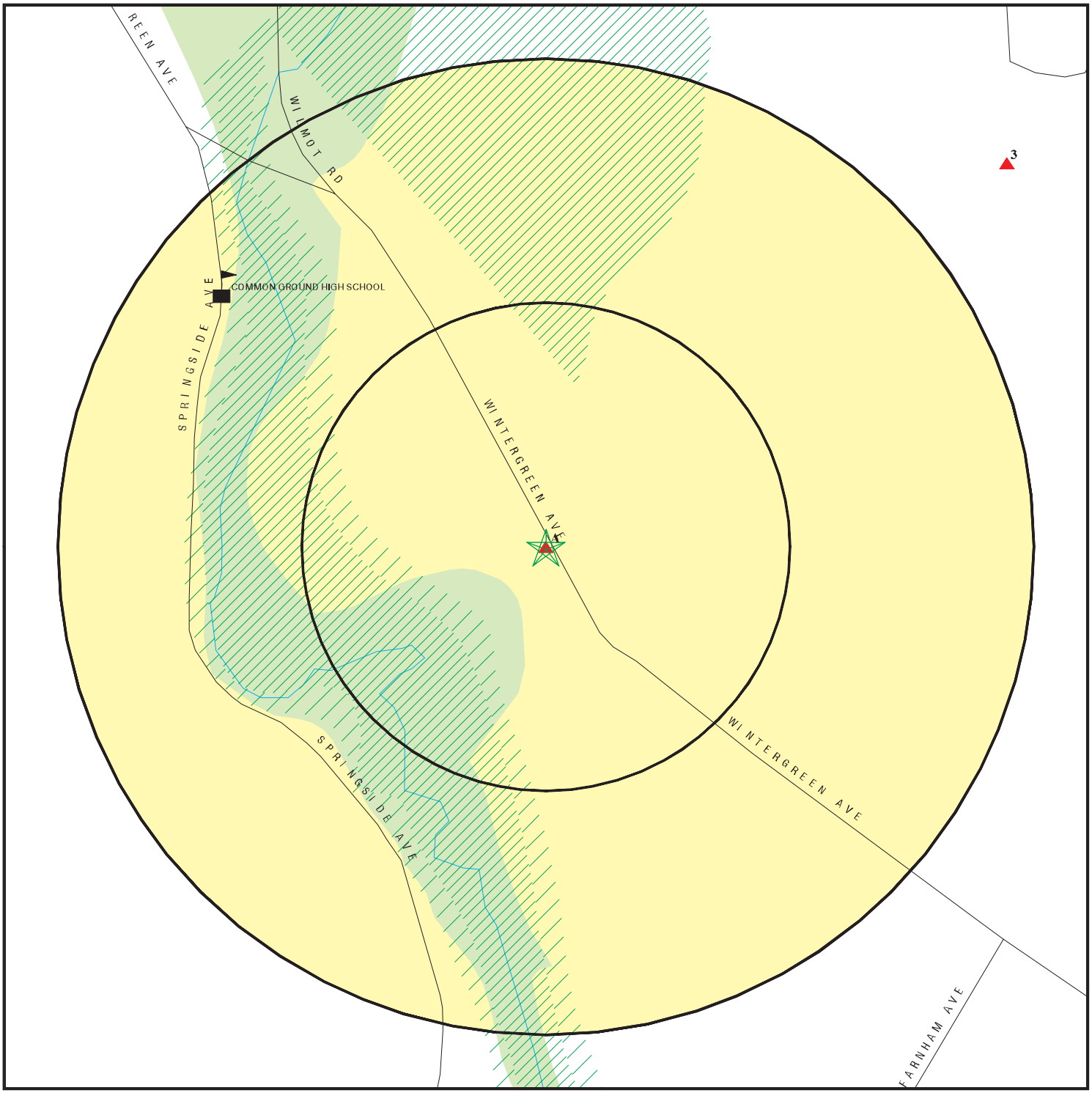
DETAIL MAP - 01714247.134r



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

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SITE NAME: * SGT George D. Libby USARC, CT	CLIENT: CH2M Hill
ADDRESS: 200 Wintergreen Ave	CONTACT: Mary Beth Jacques
New Haven CT 06515	INQUIRY #: 01714247.134r
LAT/LONG: 41.3364 / 72.9550	DATE: July 12, 2006

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MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
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	0	NR	0
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	0	NR	0
SDADB		0.500	0	0	0	NR	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
SWRCY		0.500	0	0	0	NR	NR	0
LUST		0.500	0	0	0	NR	NR	0
LWDS		1.000	0	0	1	2	NR	3
UST	X	0.250	0	0	NR	NR	NR	0
AST		0.250	0	0	NR	NR	NR	0
MANIFEST	X	0.250	0	0	NR	NR	NR	0
CT Spills		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 Target Property — **NEW HAVEN, USAR CENTER**, **200 WINTERGREEN AVENUE**, **NEW HAVEN, CT 06515** — **UST** — **U002028992**, **N/A**

Site 1 of 2 in cluster A

Actual: 65 ft.

UST:

Owner:	UNITED STATES ARMY
Owner Address:	MA AFZD-DEQ BOX 10
Owner City,St,Zip:	Ft Devens, MA 01433
Facility Id:	6047
Alt. Facility ID:	93-6047
Latitude Degrees:	4
Latitude Minutes:	12
Latitude Seconds:	6
Longitude Degrees:	72
Longitude Minutes:	57
Longitude Seconds:	40
Tank ID:	2
Alt. Tank ID:	B1
Tank Status:	**Permanently Out of Use**
Capacity:	12000
Substance:	Gasoline
Date Last Used:	03/01/90
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:	06/01/54
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:	6047
Alt. Facility ID:	93-6047
Latitude Degrees:	4
Latitude Minutes:	12
Latitude Seconds:	6
Longitude Degrees:	72
Longitude Minutes:	57
Longitude Seconds:	40
Tank ID:	3
Alt. Tank ID:	B1R1
Tank Status:	**Currently In Use**
Capacity:	12000
Substance:	Heating Oil
Date Last Used:	/ /
Closure Status:	**Not reported**
Tank Material:	Fiberglass Reinforced Plastic
2ndary Material:	None
Pipe Material:	Copper
Pipe Mode Description:	None
Date Installed:	01/01/90
Spill Installed:	True
Overfill Installed:	True

NEW HAVEN, USAR CENTER (Continued) **U002028992**

Owner:	UNITED STATES ARMY
Owner Address:	MA AFZD-DEQ BOX 10
Owner City,St,Zip:	Ft Devens, MA 01433
Facility Id:	6047
Alt. Facility ID:	93-6047
Latitude Degrees:	4
Latitude Minutes:	12
Latitude Seconds:	6
Longitude Degrees:	72
Longitude Minutes:	57
Longitude Seconds:	40
Tank ID:	1
Alt. Tank ID:	A1
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:	02/01/85
Spill Installed:	False
Overfill Installed:	True

A2 Target Property | **U.S. ARMY RESERVE CENTER** | **CT MANIFEST** | **1007930231**
200 WINTERGREEN AVE. NEW HAVEN | **N/A**
USA (County), CT 06515

Site 2 of 2 in cluster A

Actual: 65 ft.

CT MANIFEST:

Year:	1995
Manifest ID:	NJA2065869
TSDF EPA ID:	NJD002200046
TSDF Name:	CYCLE CHEM, INC.
TSDF Address:	217 SOUTH FIRST STREET
TSDF City,St,Zip:	ELIZABETH, NJ 07206
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	06/16/95
Transporter EPA ID:	NYD980761191
Transporter Name:	ENVIRONMENTAL PRODUCTS AND SERVICES, INC.
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	03/17/95
Trans 2 EPA ID:	NYD980761191
Trans 2 Name:	ENVIRONMENTAL PRODUCTS AND SERVICES, INC.
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
Generator EPA ID:	CTP000017016
Gererator Phone:	2033897908
Generator Address:	Not reported
Generator City,State,Zip:	Not reported
Generator Country:	Not reported

U.S. ARMY RESERVE CENTER (Continued) **1007930231**

Special Handling:	Not reported
Discrepancies:	Yes
Date Shipped:	03/16/95
Date Received:	03/23/95
Last modified date:	04/26/04
Last modified by:	IG
Comments:	Not reported

Click this hyperlink while viewing on your computer to access
1 additional CT MANIFEST: record(s) in the EDR Site Report.

3
NE
1/4-1/2
1622 ft.

HAMDEN
LANDFILL
, CT

LWDS **W991101749**
N/A

Relative:
Higher

Actual:
135 ft.

LWDS:

ArcView Legend Symbology:	LANDFILL
Leachate and Wastewater Number:	5304001
Status of the Discharge Activity:	ACTIVE
Leachate and Waste Flow:	GROUND
Feature Number on Hazardous Waste List:	0
Subregional Basin Feature Number:	5304
Name:	Hamden
Alias:	Not reported
Leachate and Wastewater Name:	LANDFILL
Description:	active mixed waste site
Description 2:	Not reported
State Plane x:	944953
State Plane y:	684398
Longitude:	-72.95045
Latitude:	41.33925
Mercator y:	13206789.82567

4
South
1/2-1
3970 ft.

MITE CORP.
COOLING WTR -SURFACE
, CT

LWDS **W991101468**
N/A

Relative:
Lower

Actual:
32 ft.

LWDS:

ArcView Legend Symbology:	COOL WTR-S
Leachate and Wastewater Number:	5305005
Status of the Discharge Activity:	ACTIVE
Leachate and Waste Flow:	SURFACE
Feature Number on Hazardous Waste List:	0
Subregional Basin Feature Number:	5305
Name:	Mite Corp.
Alias:	Not reported
Leachate and Wastewater Name:	COOLING WTR -SURFACE
Description:	cooling water discharge
Description 2:	Not reported
State Plane x:	943313
State Plane y:	679413
Longitude:	-72.95638
Latitude:	41.32555
Mercator y:	13201485.02817

5 WNW 1/2-1 5244 ft. | **CONN. DOT LANDFILL , CT** | **LWDS** | **W991101720 N/A**

Relative: Higher

Actual: 143 ft.

LWDS:

ArcView Legend Symbology:	LANDFILL
Leachate and Wastewater Number:	5305006
Status of the Discharge Activity:	INACTIVE
Leachate and Waste Flow:	GROUND
Feature Number on Hazardous Waste List:	0
Subregional Basin Feature Number:	5305
Name:	Conn. DOT
Alias:	Not reported
Leachate and Wastewater Name:	LANDFILL
Description:	former disposal site (Woodbridge)
Description 2:	Not reported
State Plane x:	938890
State Plane y:	685446
Longitude:	-72.97254
Latitude:	41.34208
Mercator y:	13207888.48882

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
NEW HAVEN	1007905055	CT D O T OFFICE OF ENVIRONMENTAL C	I-91 / RTE 5		CT MANIFEST
NEW HAVEN	S104254483	WEST RIVER BRIDGE	ROUTE 1		SDADB
NEW HAVEN	S104254478	TOMLINSON BRIDGE	ROUTE 1		SDADB
NEW HAVEN	1007904224	CONNECTICUT, DEPARTMENT OF TRANSPO	ROUTE 15 AT EXIT 59		CT MANIFEST
NEW HAVEN	1007910434	CONNECTICUT DEPARTMENT OF TRANSPOR	ROUTE 34		CT MANIFEST
NEW HAVEN	1007897455	STATE OF CT - DEPT OF RETARDATION	20 BROOKSIDE AVE		CT MANIFEST
NEW HAVEN	S107556591	GETTY SERVICE STATION NO. 6831	158 FITCH STREET	06515	LUST
NEW HAVEN	1007891985	GETTY PETROLEUM	158 FITCH STREET		CT Spills, CT MANIFEST
NEW HAVEN	1007903759	STATE OF CT DOT	POND LILY AVE		CT MANIFEST
NEW HAVEN	1007897456	STATE OF CT - DEPT OF RETARDATION	455 WINTERGREEN AVE		CT Spills, CT MANIFEST
NEW HAVEN	1007980351	USARC	1200 WINTERGREEN AVE	06515	CT MANIFEST
NEW HAVEN	S107737882	NEW HAVEN JOB CORPS	455 WINTERGREEN AVENUE	06515	NY MANIFEST
USA COUNTY	1007887889	SOUTHER CT. STATE UNIVERSITY	501 CRESCENT ST NEW HAVEN	06515	CT MANIFEST

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

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

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

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.

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

* SGT GEORGE D. LIBBY USARC, CT
200 WINTERGREEN AVE
NEW HAVEN, CT 06515

TARGET PROPERTY COORDINATES

Latitude (North):	41.33640 - 41˚ 20' 11.0''
Longitude (West):	72.955 - 72˚ 57' 18.0''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	671119.6
UTM Y (Meters):	4577906.5
Elevation:	65 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	41072-C8 NEW HAVEN, 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).

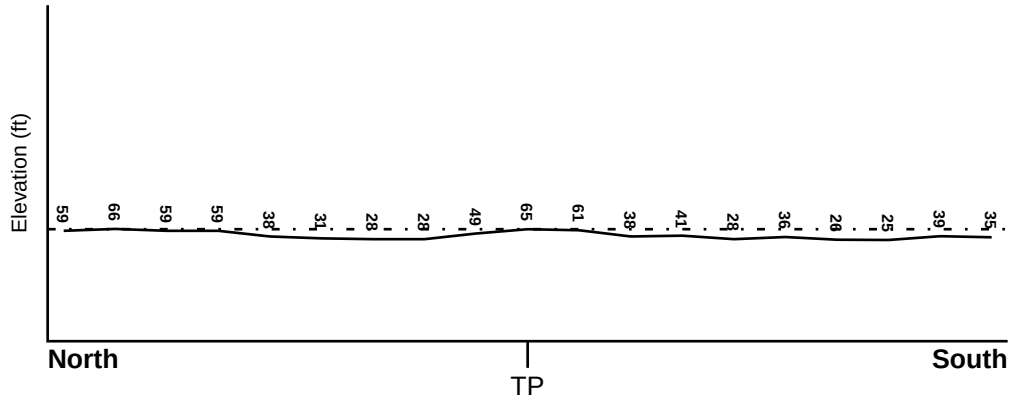
TOPOGRAPHIC INFORMATION

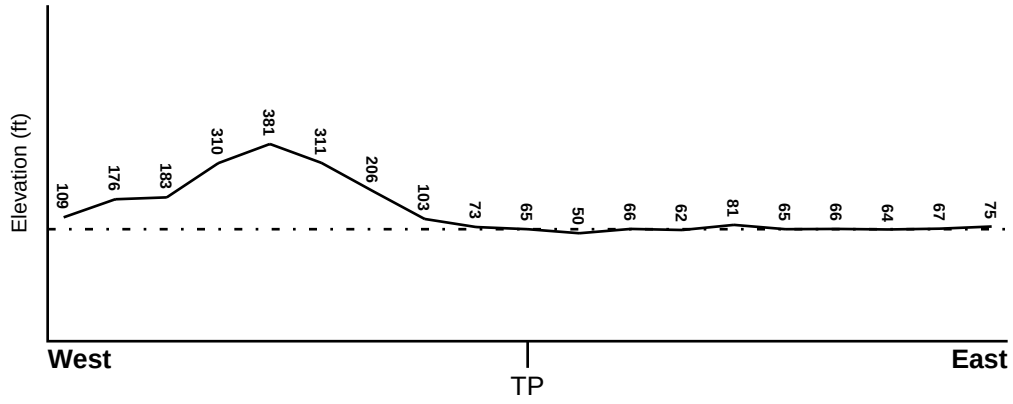
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

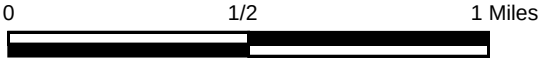
General Topographic Gradient: General East

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 65 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
NEW HAVEN, CT	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:	0900840002C
Additional Panels in search area:	0900780010B 0901530003C 0900840004C

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
NEW HAVEN	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
Location Relative to TP:	1/4 - 1/2 Mile NW
Site Name:	HAMDEN LANDFILL II
Site EPA ID Number:	CTD983870528
Groundwater Flow Direction:	WSW IN THE OVERBURDEN.
Measured Depth to Water:	6 to 16 feet.
Hydraulic Connection:	Detailed hydraulic connection information is not available. The depth to bedrock is estimated to range from 6 to 100 feet. Ground water at the site is classified as GB by the Connecticut DEP.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information is inferred in the CERCLIS investigation report(s)

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

* ©1996 Site--specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
B3	1/2 - 1 Mile South	VARIES
B4	1/2 - 1 Mile South	E

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:	Mesozoic
System:	Triassic
Series:	Triassic
Code:	Tr *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

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:	CHESHIRE
Soil Surface Texture:	fine sandy loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	LOW
Depth to Bedrock Min:	> 60 inches
Depth to Bedrock Max:	> 60 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	8 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 0.60	Max: 6.00 Min: 4.50
2	8 inches	26 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 0.60	Max: 6.00 Min: 4.50
3	26 inches	65 inches	gravelly - sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 0.60	Max: 6.00 Min: 4.50

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: very stony - silt loam
loam
silt loam
gravelly - sandy loam
very stony - fine sandy loam
muck

Surficial Soil Types: very stony - silt loam
loam
silt loam
gravelly - sandy loam
very stony - fine sandy loam
muck

Shallow Soil Types: silt loam

Deeper Soil Types: unweathered bedrock
gravelly - loam
stratified
fine sandy loam
muck

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	USGS2100290	1/2 - 1 Mile ENE
A2	USGS2100289	1/2 - 1 Mile ENE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

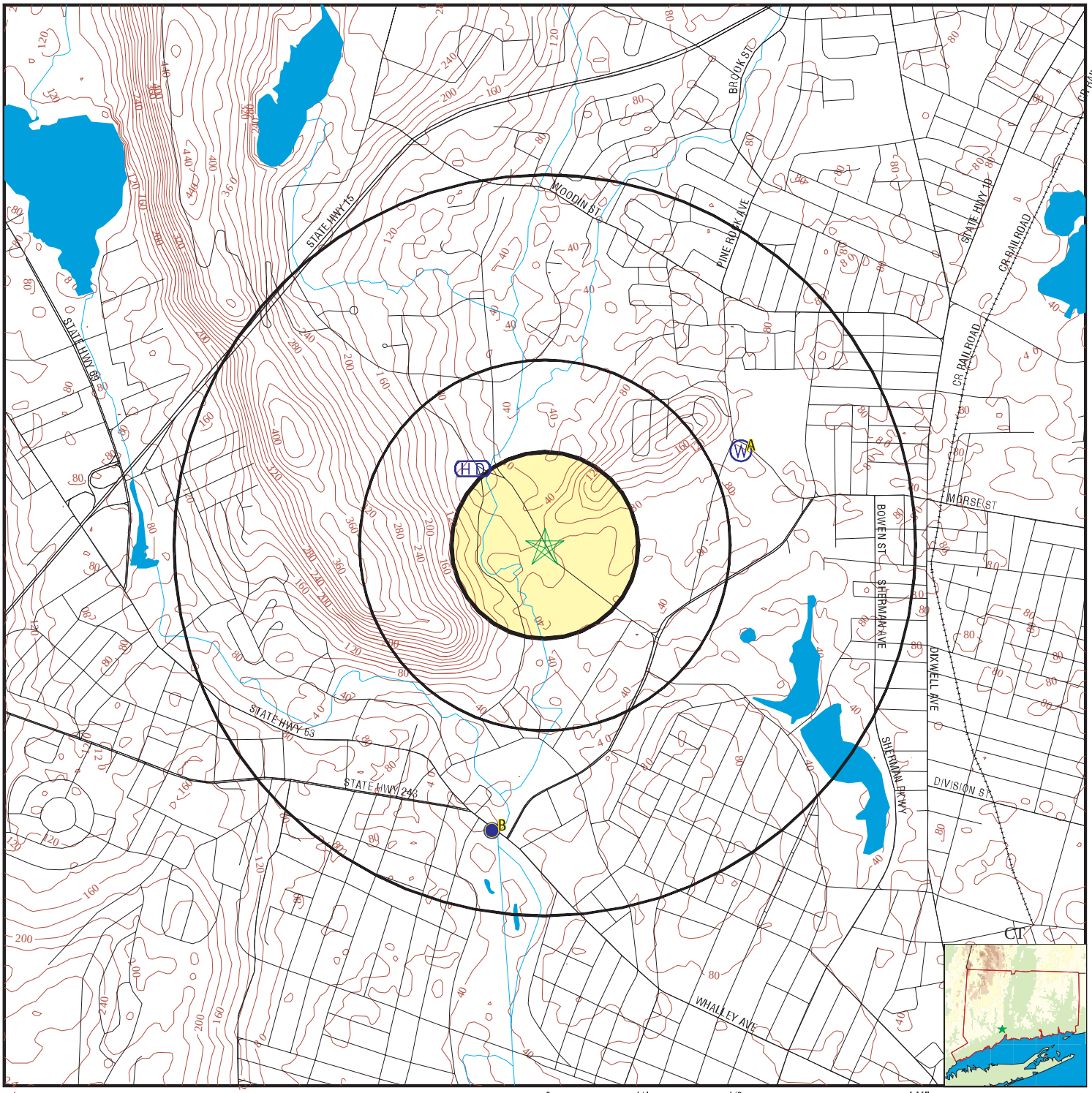
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

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 - 01714247.134r



County Boundary
Major Roads
Contour Lines
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

0 1/4 1/2 1 Miles

Groundwater Flow Direction
GI Indeterminate Groundwater Flow at Location
GV Groundwater Flow Varies at Location
HD Closest Hydrogeological Data
EPA Designated Sole Src. Aq.

N

SITE NAME: * SGT George D. Libby USARC, CT	CLIENT: CH2M Hill
ADDRESS: 200 Wintergreen Ave	CONTACT: Mary Beth Jacques
New Haven CT 06515	INQUIRY #: 01714247.134r
LAT/LONG: 41.3364 / 72.9550	DATE: July 12, 2006

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Map ID Direction Distance Elevation	Database	EDR ID Number
A1 **ENE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS2100290**

Agency cd:	USGS	Site no:	412024072564302
Site name:	CT-HM 442		
Latitude:	412024		
Longitude:	0725643	Dec lat:	41.3400972
Dec lon:	-72.94482528	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	09
State:	09	County:	009
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	65.00	Altitude method:	M
Altitude accuracy:	5.	Altitude datum:	NGVD29
Hydrologic:	Quinnipiac. Connecticut. Area = 516 sq.mi.		
Topographic:	Alluvial or marine terrace		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	DRIFT,STRATIFIED		
Well depth:	82.0	Hole depth:	Not Reported
Source of depth data:	Not Reported	Project number:	Not Reported
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1971-03-01	Ground water data end date:	1971-03-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1971-03-01	28.00	

A2 **ENE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS2100289**

Agency cd:	USGS	Site no:	412024072564301
Site name:	CT-HM 410		
Latitude:	412024		
Longitude:	0725643	Dec lat:	41.3400972
Dec lon:	-72.94482528	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	09
State:	09	County:	009
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported

Altitude:	65.00	Altitude method:	M
Altitude accuracy:	5.	Altitude datum:	NGVD29
Hydrologic:	Quinnipiac. Connecticut. Area = 516 sq.mi.		
Topographic:	Alluvial or marine terrace		
Site type:	Ground-water other than Spring	Date construction:	1956
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	DRIFT,STRATIFIED		
Well depth:	72.0	Hole depth:	Not Reported
Source of depth data:	Not Reported	Project number:	Not Reported
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1956-10-01	Ground water data end date:	1956-10-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1956-10-01	33.00	

B3
South
1/2 - 1 Mile
Lower

Site ID:	93-6815	**AQUIFLOW**	**11480**
Groundwater Flow:	VARIES		
Shallow Water Depth:	Not Reported		
Deep Water Depth:	Not Reported		
Average Water Depth:	Not Reported		
Date:	6/16/1997		

B4
South
1/2 - 1 Mile
Lower

Site ID:	Not Reported	**AQUIFLOW**	**11479**
Groundwater Flow:	E		
Shallow Water Depth:	Not Reported		
Deep Water Depth:	Not Reported		
Average Water Depth:	Not Reported		
Date:	9/19/1991		

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
Ansonia	110	62 (56.4)	29 (26.4)	8 (7.3)	10 (1)	1 (9)	0 (0)
Beacon Falls	4	3 (75)	1 (25)	0 (0)	0 (0)	0 (0)	0 (0)
Bethany	3	2 (66.7)	1 (33.3)	0 (0)	0 (0)	0 (0)	0 (0)
Branford	196	126 (64.3)	40 (20.4)	13 (6.6)	14 (7.1)	13 (1.5)	0 (0)
Cheshire	16	10 (62.5)	4 (25)	2 (12.5)	0 (0)	0 (0)	0 (0)
Derby	11	4 (36.4)	6 (54.6)	1 (9)	0 (0)	0 (0)	0 (0)
East Haven	27	22 (81.5)	4 (14.8)	1 (3.7)	0 (0)	0 (0)	0 (0)
Guilford	138	95 (68.8)	22 (15.9)	13 (9.4)	7 (5.1)	0 (0)	1 (.7)
Hamden	39	29 (74.4)	10 (25.6)	0 (0)	0 (0)	0 (0)	0 (0)
Madison	133	84 (63.2)	32 (24)	9 (6.8)	6 (4.5)	2 (1.5)	0 (0)
Meriden	97	76 (78.4)	19 (19.6)	1 (1)	0 (0)	0 (0)	1 (1)
Middlebury	5	5 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Milford	20	15 (.75)	4 (20)	1 (5)	0 (0)	0 (0)	0 (0)
Naugatuck	9	8 (88.9)	1 (11.1)	0 (0)	0 (0)	0 (0)	0 (0)
New Haven	21	16 (76.2)	5 (23.8)	0 (0)	0 (0)	0 (0)	0 (0)
North Branford	13	11 (84.6)	2 (15.4)	0 (0)	0 (0)	0 (0)	0 (0)
North Haven	5	3 (0)	2 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Northford	7	5 (71.4)	0 (0)	1 (14.2)	0 (0)	0 (0)	1 (14.2)
Orange	16	14 (87.5)	2 (12.5)	0 (0)	0 (0)	0 (0)	0 (0)
Oxford	3	2 (0)	1 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Prospect	3	3 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Seymour	9	5 (55.6)	3 (33.3)	1 (11.1)	0 (0)	0 (0)	0 (0)
Southbury	21	10 (47.6)	8 (38.1)	3 (14.3)	0 (0)	0 (0)	0 (0)
Wallingford	100	90 (90)	10 (10)	0 (0)	0 (0)	0 (0)	0 (0)
Waterbury	20	19 (95)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)
West Haven	14	14 (93.3)	1 (6.7)	0 (0)	0 (0)	0 (0)	0 (0)
Wolcott	7	3 (42.9)	4 (57.1)	0 (0)	0 (0)	0 (0)	0 (0)
Woodbridge	126	79 (62.7)	32 (25.4)	9 (7.1)	4 (3.2)	1 (.8)	0 (0)
Yalesville	3	3 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

Federal EPA Radon Zone for NEW HAVEN County: 1

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 06515

Number of sites tested: 3

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	2.967 pCi/L	67%	33%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 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

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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
*** SGT George D. Libby USARC, CT**
200 Wintergreen Ave
New Haven, CT 06515
Lat./Long. 41.33640 / 72.95500
EDR Inquiry # 01714247.134r

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 may exist for portions of New Haven County, CT.

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 New Haven County for 1940, 1950, 1960, 1970, 1980, 1990 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 New Haven County

Current: Target Property: TP | 1984 | 41072-C8 New Haven, 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 New Haven, 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™ Environmental Data Resources Inc

EDR - HISTORICAL SOURCE(S) ORDER FORM

CH2M Hill
Mary Beth Jacques
Account # 1592163

*** SGT George D. Libby USARC, CT**
200 Wintergreen Ave
New Haven, CT 06515
New Haven County
Lat./Long. 41.33640 / 72.95500
EDR Inquiry # 01714247.134r

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:

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___ Express, Second Day Delivery — Customer Account — Acct # _____
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Thank you

EDR® Environmental Data Resources Inc

"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:** 7/12/2006
Inquiry #: 1714247.135
P.O. #: NA
Site Name: * SGT George D. Libby USARC, CT
Address: 200 Wintergreen Ave
City/State: New Haven, CT 06515
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

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report AS IS. Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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The EDR Aerial Photo Decade Package

*** SGT George D. Libby USARC, CT**
200 Wintergreen Ave
New Haven, CT 06515

Inquiry Number: 1714247.137

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.

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

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Date EDR Searched Historical Sources:

Aerial Photography July 13, 2006

Target Property:

200 Wintergreen Ave

New Haven, CT 06515

Year	***Scale***	***Details***	***Source***
1940	Aerial Photograph. Scale: 1"=750'	Panel #: 2441072-C8/Flight Date: June 03, 1940	EDR
1963	Aerial Photograph. Scale: 1"= '	Panel #: 2441072-C8/Flight Date: July 06, 1963	EDR
1975	Aerial Photograph. Scale: 1"=750'	Panel #: 2441072-C8/Flight Date: July 30, 1975	EDR
1980	Aerial Photograph. Scale: 1"=750'	Panel #: 2441072-C8/Flight Date: September 19, 1980	EDR
1991	Aerial Photograph. Scale: 1"=833'	Panel #: 2441072-C8/Flight Date: April 03, 1991	EDR

INQUIRY #: 1714247.137
YEAR: 1940
= 750'
N
EDR Environmental Data Resources Inc

INQUIRY #: 1714247.137
YEAR: 1963
= '
N

INQUIRY #: 1714247.137
YEAR: 1975
= 750'
N

INQUIRY #: 1714247.137
YEAR: 1980
= 750'
N

INQUIRY #: 1714247.137
YEAR: 1991
= 833'
N

The EDR-City Directory
Abstract

*** SGT George D. Libby USARC, CT**
200 Wintergreen Ave
New Haven, CT 06515

Inquiry Number: 1714247.138

Monday, July 24, 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 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.

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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:
200 Wintergreen Ave
New Haven, CT 06515

Year	***Uses***	***Source***
1986	Address Not Listed in Research Source	Johnson's City Directory
1990	Address Not Listed in Research Source	Johnson's City Directory
2002	US Army Reserve Center	Cole Criss-Cross Directory
2005	Libby US Army Reserve Center	Cole Criss-Cross Directory

Adjoining Properties

SURROUNDING

Multiple Addresses
New Haven, CT 06515

Year	***Uses***	***Source***
1986	Address Not Listed in Research Source	Johnson's City Directory
1990	Address Not Listed in Research Source	Johnson's City Directory
2002	****Wintergreen Avenue****	Cole Criss-Cross Directory
	Residence (100)	Cole Criss-Cross Directory
	Residence (112)	Cole Criss-Cross Directory
	SCSU Athletics (125)	Cole Criss-Cross Directory
	No other addresses in range	Cole Criss-Cross Directory
2005	****Wintergreen Avenue****	Cole Criss-Cross Directory
	Residence (100)	Cole Criss-Cross Directory
	Residence (112)	Cole Criss-Cross Directory
	SCSU Athletics (125)	Cole Criss-Cross Directory
	No other addresses in range	Cole Criss-Cross Directory