

**United States Army**  
Fort Monmouth, New Jersey

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**Underground Storage Tank  
Closure and Site Investigation  
Report**

**Former Building 545  
Main Post**

*No Further Action*

*DO NOT FILE COPY*

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**NJDEP UST Registration No. 081533-78  
NJDEP Closure Approval Letter Dated October 7, 1994  
Spill Case No. 94-12-6-1355-21**

**February 1997**

**SMITH**  
TECHNOLOGY CORPORATION



**UNDERGROUND STORAGE TANK  
CLOSURE AND SITE INVESTIGATION REPORT**

**FORMER BUILDING 545**

**MAIN POST**

**NJDEP UST REGISTRATION NO. 081533-78  
NJDEP CLOSURE APPROVAL LETTER DATED OCTOBER 7, 1994  
SPILL CASE NO. 94-12-6-1355-21**

**FEBRUARY 1997**

**PROJECT NO.: 09-5004-08  
CONTRACT NO.: DACA51-94-D-0014**

**PREPARED FOR:**

**UNITED STATES ARMY, FORT MONMOUTH, NEW JERSEY  
DIRECTORATE OF PUBLIC WORKS  
BUILDING 167  
FORT MONMOUTH, NJ 07703**

**PREPARED BY:**

**SMITH TECHNOLOGY CORPORATION  
BROMLEY CORPORATE CENTER  
THREE TERRI LANE  
BURLINGTON, NEW JERSEY 08016**

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## EXECUTIVE SUMMARY

### UST Closure

On December 6, 1994, a steel underground storage tank (UST) was closed by removal in accordance with the New Jersey Department of Environmental Protection (NJDEP) Closure Approval Letter dated October 7, 1994 at U S Army Fort Monmouth, Fort Monmouth, New Jersey The UST, NJDEP Registration No 081533-78, was located immediately adjacent to former Building 545 in the Main Post area of U S Army, Fort Monmouth UST No 081533-78 was a 1,500-gallon No 2 fuel oil UST The UST fill port was located directly above the tank The tank closure was performed by Cleaning Up The Environment Inc (CUTE)

### Site Assessment

The site assessment was performed by U S Army personnel in accordance with the NJDEP *Technical Requirements for Site Remediation* (N J A C 7 26E) and the NJDEP *Field Sampling Procedures Manual* Soils surrounding the tank were screened visually and with air monitoring equipment for evidence of contamination Following removal, the UST was inspected for corrosion holes Several holes were noted in the UST and evidence of potentially contaminated soil was observed surrounding the tank

On December 9, 1994, following the removal of the UST, approximately 160 cubic yards of potentially contaminated soil was removed from the excavation due to visible contamination Following removal of the soil, post-excitation soil samples A, B, C, D, and DUP D were collected from a total of four (4) locations along the sidewalls of the excavation, immediately above groundwater The samples were collected at a depth of 6 5 feet below ground surface (bgs) Groundwater was present at approximately 7 0 feet bgs Sample F was collected along the former piping length of the excavation, which was approximately 5 0 feet in length The piping sample was collected at a depth of 1 0 foot bgs All samples were analyzed for total petroleum hydrocarbons (TPHC)

### Findings

All post-excitation soil samples collected from the UST excavation and from below piping associated with the former UST at former Building 545 contained TPHC concentrations below the NJDEP residential direct contact total organic contaminants soil cleanup criteria of 10,000 milligrams per kilogram (mg/kg) (N J A C 7 26D and revisions dated February 3, 1994) Samples A, B, C, D, DUP D, and F, contained levels of TPHC ranging in concentrations from 71 2 mg/kg to 258 0 mg/kg



Site Restoration

Following receipt of all post-excavation soil sampling results, the excavation was backfilled to grade with a combination of uncontaminated excavated soil and certified clean fill. The excavation site was then restored to its original condition.

Site Assessment Quality Assurance

The sampling and laboratory analysis conducted during the site assessment were performed in accordance with Section 7 26E-2.1 of the *Technical Requirements for Site Remediation*.

Conclusions and Recommendations

Based on the post-excavation soil sampling results, soils with TPHC concentrations exceeding the NJDEP soil cleanup criteria for total organic contaminants of 10,000 mg/kg, do not exist in the former location of the UST or associated piping.

No further action is proposed in regard to the closure and site assessment of UST No. 081533-78 at former Building 545.



## 1.0 UNDERGROUND STORAGE TANK DECOMMISSIONING ACTIVITIES

### 1.1 OVERVIEW

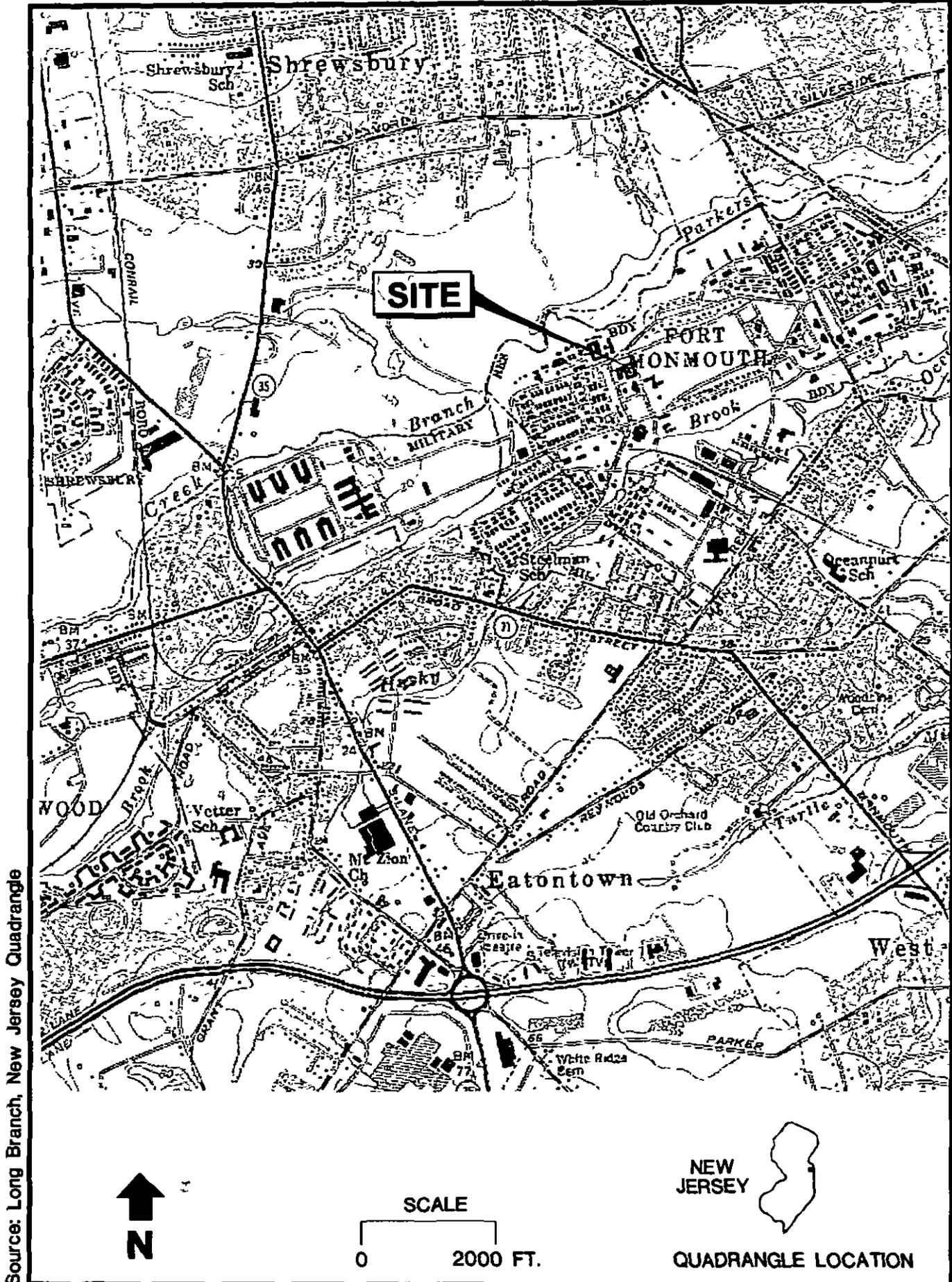
One underground storage tank (UST), New Jersey Department of Environmental Protection (NJDEP) Registration No 081533-78, was closed at former Building 545 at U S Army Fort Monmouth, Fort Monmouth, New Jersey on December 6 1994 Refer to site location map on Figure 1 This report presents the results of the DPW's implementation of the UST Decommissioning/Closure Plan submitted to the NJDEP on September 2, 1994 The plan was approved on October 7, 1994 The UST was a steel 1,500-gallon tank containing No 2 fuel oil

Decommissioning activities for UST No 081533-78 complied with all applicable Federal, State, and Local laws and ordinances in effect at the date of decommissioning These laws included but were not limited to N J A C 7 14B-1 et seq , N J A C 5 23-1 et seq , and Occupational Safety and Health Administration (OSHA) 1910 146 & 1910 120 All permits including but not limited to the NJDEP-approved Decommissioning/Closure Plan were posted onsite for inspection CUTE Inc , the contractor that conducted the decommissioning activities, is registered and certified by the NJDEP for performing UST closure activities Closure of UST No 081533-78 proceeded under the approval of the NJDEP Bureau of Underground Storage Tanks (NJDEP-BUST) The NJDEP-BUST closure approval and signed certifications for UST No 081533-78 are included in Appendices A and B, respectively

Based on an inspection of the UST, and field screening of subsurface soils, the DPW has concluded that an historical discharge was associated with the UST On December 6, 1994, a spill was reported to the NJDEP 'Hotline' for UST No 081533-78 and was assigned Spill Case No 94-12-6-1355-21

This UST Closure and Site Investigation Report has been prepared by Smith Technology Corporation, to assist the United States Army Directorate of Public Works (DPW) in complying with the NJDEP Bureau of Underground Storage Tanks (NJDEP-BUST) regulations The applicable NJDEP-BUST regulations at the date of closure were the *Interim Closure Requirements for Underground Storage Tank Systems* (N J A C 7 14B-1 et seq September 1990 and revisions dated November 1, 1991)

This report was prepared using information required at the time of closure Section 1 of this UST Closure and Site Investigation Report provides a summary of the UST decommissioning activities Section 2 of this report describes the site investigation activities Conclusions and recommendations, including the results of the soil sampling investigation, are presented in the final section of this report



Source: Long Branch, New Jersey Quadrangle

Project No. 09-5004-08

Figure 1  
Site Location Map  
Building 545

## 1.2 SITE DESCRIPTION

Former Building 545 is located in the central portion of the Main Post area of Fort Monmouth, as shown on Figure 1. UST No. 081533-78 was located west of former Building 545 and appurtenant piping ran approximately 50 feet east from the excavation to former Building 545. The fill port area was located directly above the tank. A site map is provided on Figure 2.

### 1.2.1 Geological/Hydrogeological Setting

The following is a description of the geological/hydrogeological setting of the area surrounding former Building 545. Included is a description of the regional geology of the area surrounding Fort Monmouth as well as descriptions of the local geology and hydrogeology of the Main Post area.

#### Regional Geology

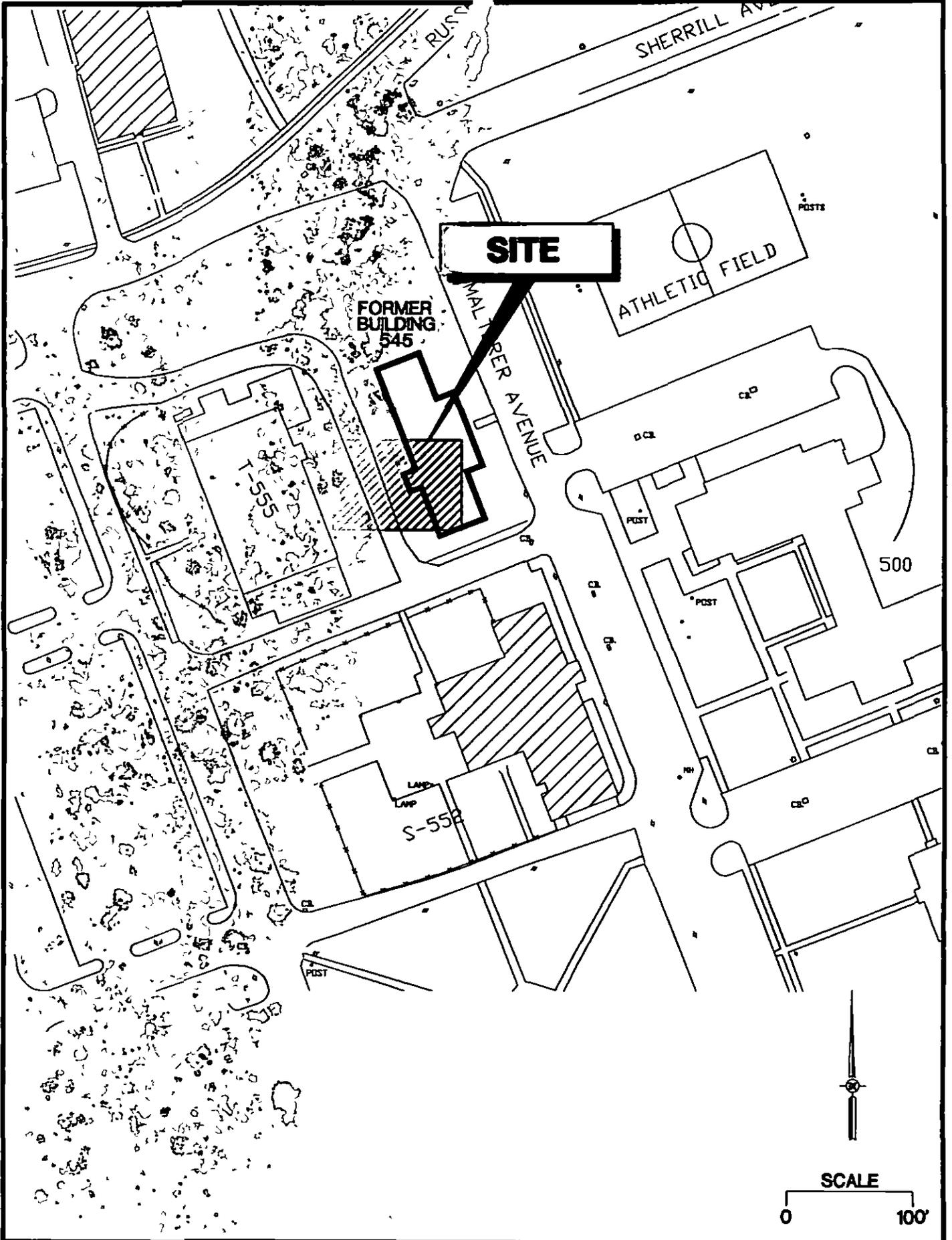
Monmouth County lies within the New Jersey Section of the Atlantic Coastal Plain physiographic province. The Main Post, Charles Wood, and the Evans areas are located in what may be referred to as the Outer Coastal Plain subprovince, or the Outer Lowlands.

In general, New Jersey Coastal Plain formations consist of a seaward-dipping wedge of unconsolidated deposits of clay, silt, and gravel. These formations typically strike northeast-southwest with a dip ranging from 10 to 60 feet per mile and were deposited on Precambrian and lower Paleozoic rocks (Zapczka, 1989). These sediments, predominantly derived from deltaic, shallow marine, and continental shelf environments, date from Cretaceous through the Quaternary Periods. The mineralogy ranges from quartz to glauconite.

The formations record several major transgressive/regressive cycles and contain units which are generally thicker to the southeast and reflect a deeper water environment. Over 20 regional geologic units are present within the sediments of the Coastal Plain. Regressive, upward coarsening deposits are usually aquifers (e.g., Englishtown and Kirkwood Formations, and the Cohansey Sand) while the transgressive deposits act as confining units (e.g., the Merchantville, Marshalltown, and Navesink Formations). The individual thicknesses for these units vary greatly (i.e., from several feet to several hundred feet). The Coastal Plain deposits thicken to the southeast from the Fall Line to greater than 6,500 feet in Cape May County (Brown and Zapczka, 1990).

#### Local Geology

Based on the regional geologic map (Jablonski, 1968), the Cretaceous age Red Bank and Tinton Sands outcrop at the Main Post area. The Red Bank sand conformably overlies the Navesink Formation and dips to the southeast at 35 feet per mile. The upper member



Source: Smith Technology Corporation (084)

Project No. 09-5004-08

Figure 2  
**Building 545  
Site Map**

(Shrewsbury) of the Red Bank sand is a yellowish-gray to reddish brown clayey, medium-to-coarse-grained sand that contains abundant rock fragments, minor mica and glauconite (Jablonski). The lower member (Sandy Hook) is a dark gray to black, medium-to-fine grained sand with abundant clay, mica, and glauconite.

The Tinton sand conformably overlies the Red Bank Sand and ranges from a clayey medium to very coarse grained feldspathic quartz and glauconite sand to a glauconitic coarse sand. The color varies from dark yellowish orange or light brown to moderate brown and from light olive to grayish olive. Glauconite may constitute 60 to 80 percent of the sand fraction in the upper part of the unit (Minard, 1969). The upper part of the Tinton is often highly oxidized and iron oxide encrusted (Minard).

### Hydrogeology

The water table aquifer in the Main Post area is identified as part of the "composite confining units," or minor aquifers. The minor aquifers include the Navesink formation, Red Bank Sand, Tinton Sand, Hornerstown Sand, Vincentown Formation, Manasquan Formation, Shark River Formation, Piney Point Formation, and the basal clay of the Kirkwood Formation.

Based on records of wells drilled in the Main Post area, water is typically encountered at depths of 2 to 9 feet below ground surface (bgs). According to Jablonski, wells drilled in the Red Bank and Tinton Sands may produce 2 to 25 gallons per minute (gpm). Some well owners have reported acidic water that requires treatment to remove iron.

Due to the proximity of the Atlantic Ocean to Fort Monmouth, shallow groundwater may be tidally influenced and may flow toward creeks and brooks as the tide goes out, and away from creeks and brooks as the tide comes in. However, an abundance of clay lenses and sand deposits were noted in borings installed throughout Fort Monmouth. Therefore the direction of shallow groundwater should be determined on a case by case basis.

## **1.3 HEALTH AND SAFETY**

Before, during, and after all decommissioning activities, hazards at the work site which may have posed a threat to the Health and Safety of all personnel who were involved with, or were affected by, the decommissioning of the UST system were minimized. All areas which posed, or may have been suspected to pose a vapor hazard were monitored by a qualified individual utilizing an organic vapor analyzer (OVA). The individual ascertained if the area was properly vented to render the area safe, as defined by OSHA.



## 1.4 REMOVAL OF UNDERGROUND STORAGE TANK

### 1.4.1 General Procedures

- All underground obstructions (utilities, etc) were marked out by the contractor performing the closure prior to excavation activities
- All activities were carried out with the greatest regard to safety and health and the safeguarding of the environment
- All excavated soils were visually examined and screened with an OVA for evidence of contamination. Potentially contaminated soils were identified and logged during closure activities
- Surface materials (i.e., asphalt, concrete, etc) were excavated and staged separately from all soil and recycled in accordance with all applicable regulations and laws
- A Sub-Surface Evaluator from the DPW was present during all site assessment activities

### 1.4.2 Underground Storage Tank Excavation and Cleaning

Prior to UST decommissioning activities, surficial soil was removed to expose the UST and associated piping. All free product present in the piping was drained into the UST, and the UST was purged to remove vapors prior to cutting and removal of the piping. After removal of the associated piping, a manway was made in the UST to allow for proper cleaning. The UST was completely emptied of all liquids prior to removal from the ground. Approximately 100 gallons of liquid were transported by Freehold Cartage Inc. to Lionetti Oil Recovery Co. Inc., a NJDEP-approved petroleum recycling and disposal company located in Old Bridge, New Jersey. Refer to Appendix C for the waste manifest (NJ-1907257).

The UST was cleaned prior to removal from the excavation in accordance with the NJDEP-BUST regulations. After the UST was removed from the excavation, it was staged on polyethylene sheeting and examined for holes. Holes were observed during the inspection by the Sub-Surface Evaluator. Soils surrounding the UST were screened visually and with an OVA for evidence of contamination. Evidence of contamination was observed surrounding the tank.

Soil screening was also performed along the piping associated with the UST. No contamination was noted anywhere along the piping length.



## **1.5 UNDERGROUND STORAGE TANK TRANSPORTATION AND DISPOSAL**

The tank was transported by CUTE Inc to Mazza and Sons Inc for disposal in compliance with all applicable regulations and laws. See Appendix D for UST Disposal Certificate.

The removal contractor labeled the UST prior to transport with the following information:

- site of origin
- contact person
- NJDEP UST Facility ID number
- name of transporter/contact person
- destination site/contact person

## **1.6 MANAGEMENT OF EXCAVATED SOILS**

Based on visual observations, approximately 160 cubic yards of potentially contaminated soil was removed from the UST excavation on December 9, 1994. All potentially contaminated soils were stockpiled separately from other excavated material and were placed on and covered with polyethylene sheets. Potentially contaminated soils were transported to ID-27 soil staging area on Main Post prior to ultimate disposal at Soil Remediation of Philadelphia. Soils that did not exhibit signs of contamination were used as backfill following removal of the UST.



## 2.0 SITE INVESTIGATION ACTIVITIES

### 2.1 OVERVIEW

The Site Investigation was managed and carried out by U S Army DPW personnel. All analyses were performed and reported by U S Army Fort Monmouth Environmental Laboratory, a NJDEP-certified testing laboratory. All sampling was performed under the direct supervision of a NJDEP Certified Sub-Surface Evaluator according to the methods described in the NJDEP *Field Sampling Procedures Manual* (1992). Sampling frequency and parameters analyzed complied with the NJDEP-BUST document *Interim Closure Requirements for Underground Storage Tank Systems* (September 1990 and revisions dated November 1, 1991) which was the applicable regulation at the date of the closure. All records of the Site Investigation activities are maintained by the Fort Monmouth DPW Environmental Office.

The following Parties participated in Closure and Site Investigation Activities:

- Closure Contractor: Cleaning Up The Environment Inc (CUTE)  
Closure Supervisor: George Bernotsky  
Phone Number: (201) 427-2881  
NJDEP Certification No: 3249
- Subsurface Evaluator: Dinkerrai M. Desai  
Employer: U S Army, Fort Monmouth  
Phone Number: (908) 532-1475  
NJDEP Certification No: E0002266
- Analytical Laboratory: U S Army Fort Monmouth Environmental Laboratory  
Contact Person: Brian K. McKee  
Phone Number: (908) 532-4359  
NJDEP Company Certification No: 13461
- Hazardous Waste Hauler: Freehold Cartage Inc  
Contact Person: Barry Olsen  
Phone Number: (908) 721-0900  
NJDEP Hazardous Waste Hauler No: 2265

### 2.2 FIELD SCREENING/MONITORING

Field screening was performed by a NJDEP Certified Sub-Surface Evaluator using an OVA and visual observations to identify potentially contaminated material. Soils were removed from the excavation until no evidence of contamination remained.



### 2.3 SOIL SAMPLING

On December 9, 1994, post-excavation soil samples A, B, C, D, and DUP D were collected from a total of a total of four (4) locations along the sidewalls of the excavation, at a depth of 6.5 feet below ground surface (bgs). Groundwater was present in the excavation at a depth of 7.0 feet bgs. Sample F was collected along the former piping length of the excavation, which was approximately 5.0 feet in length. The piping sample was collected at a depth of 1.0 foot bgs. All samples were analyzed for TPHC.

The site assessment was performed by U.S. Army personnel in accordance with the NJDEP *Technical Requirements* and the NJDEP *Field Sampling Procedures Manual*. A summary of sampling activities including parameters analyzed is provided in Table 1. Following soil sampling activities, the samples were chilled and delivered to U.S. Army Fort Monmouth Environmental Laboratory located in Fort Monmouth, New Jersey, for analysis.



### **3.0 CONCLUSIONS AND RECOMMENDATIONS**

#### **3.1 SOIL SAMPLING RESULTS**

To evaluate soil conditions following removal of the UST and associated piping, post-excavation soil samples were collected from a total of five (5) locations on December 9, 1994. All samples were analyzed for TPHC. The post-excavation sampling results were compared to the NJDEP residential direct contact total organic contaminants soil cleanup criteria of 10,000 mg/kg (N.J.A.C. 7-26D and revisions dated February 3, 1994). A summary of the analytical results and comparison to the NJDEP soil cleanup criteria is provided in Table 2 and the soil sampling results are shown on Figure 3. The analytical data package is provided in Appendix E.

All post-excavation soil samples collected on December 9, 1994 from the UST excavation and from below piping associated with the UST contained concentrations of TPHC below the NJDEP soil cleanup criteria. Post-excavation soil samples A, B, C, D, DUP D, and F contained levels of TPHC ranging in concentration from 71.2 mg/kg to 258.0 mg/kg.

#### **3.2 CONCLUSIONS AND RECOMMENDATIONS**

The analytical results for all post-excavation soil samples collected from the UST closure excavation at former Building 545 were below the NJDEP soil cleanup criteria for total organic contaminants.

Based on the post-excavation sampling results, soils with TPHC concentrations exceeding the NJDEP soil cleanup criteria for total organic contaminants of 10,000 mg/kg, do not exist in the former location of the UST or associated piping.

No further action is proposed in regard to the closure and site assessment of UST No. 081533-78 at former Building 545.

TABLE 1  
PAGE 1 OF 1

SUMMARY OF SAMPLING ACTIVITIES  
BUILDING 545, MAIN POST  
FORT MONMOUTH, NEW JERSEY

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Sample ID	Date of Collection	Matrix	Sample Type	Analytical Parameters (and USEPA Methods) *	Sampling Method
A	12/09/94	Soil	Post-Excavation	TPHC	Stainless Steel Scoop
B	12/09/94	Soil	Post-Excavation	TPHC	Stainless Steel Scoop
C	12/09/94	Soil	Post-Excavation	TPHC	Stainless Steel Scoop
D	12/09/94	Soil	Post-Excavation	TPHC	Stainless Steel Scoop
Dup D	12/09/94	Soil	Post-Excavation	TPHC	Stainless Steel Scoop
F	12/09/94	Soil	Post-Excavation	TPHC	Stainless Steel Scoop

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\* Note

TPHC Total Petroleum Hydrocarbons (Method 418.1 / soil and aqueous)

Smith Technology Corporation (Project No 09-5004-08)

TABLE 2  
PAGE 1 OF 1

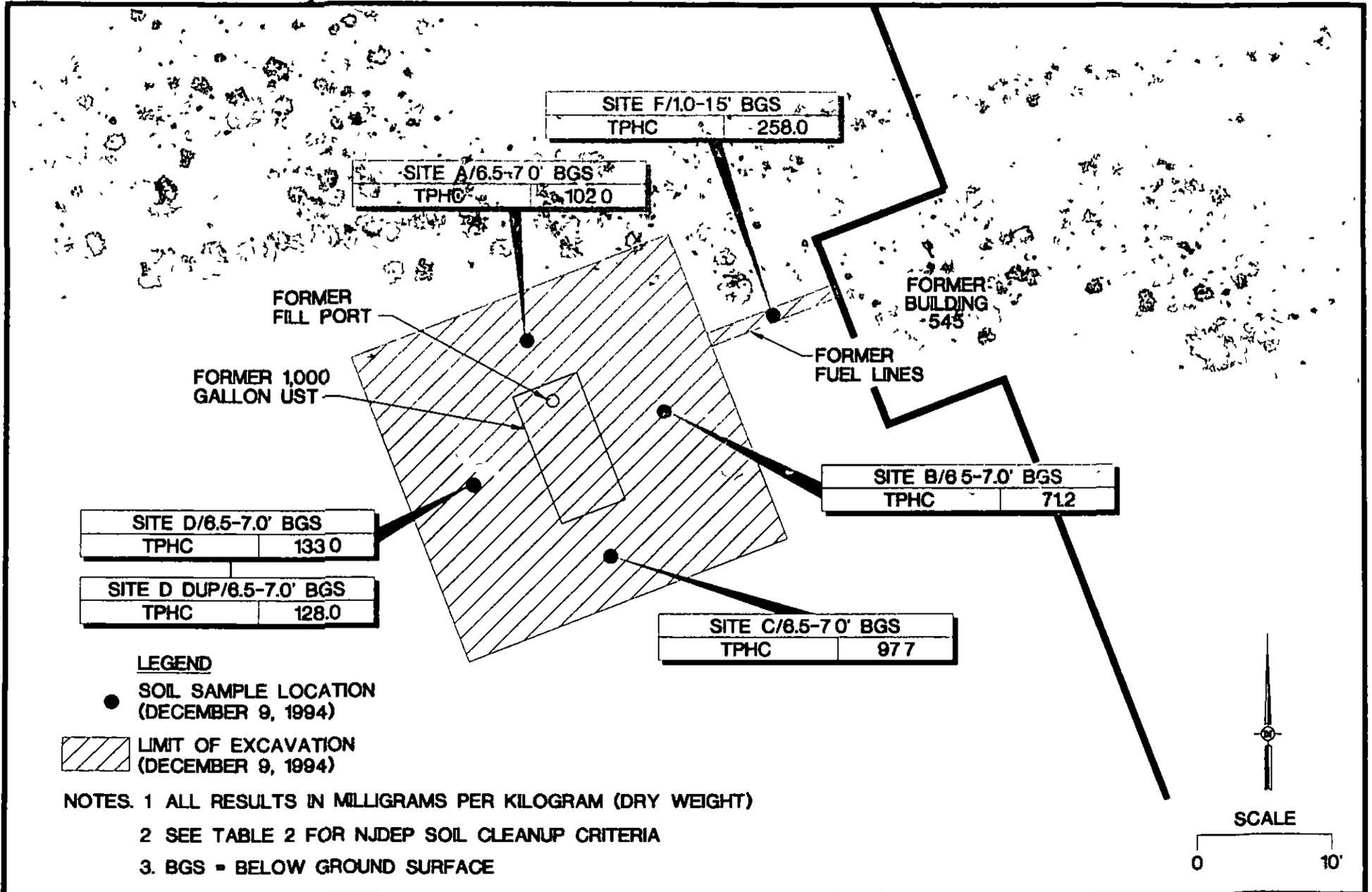
POST-EXCAVATION SOIL SAMPLING RESULTS  
BUILDING 545  
FT MONMOUTH, NEW JERSEY

Sample ID/Depth	Sample Laboratory ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (mg/kg)	Compound * of Concern	Result (mg/kg)	NJDEP Soil Cleanup Criteria * (mg/kg)	Exceeds Cleanup Criteria *
A/6 5-7 0'	1761 1	12/09/94	12/14/94	Total Solid	--	--	81 %	--	--
				TPHC	7 9	yes	102 0	10,000	--
B/6 5-7 0'	1761 2	12/09/94	12/14/94	Total Solid	--	--	86 %	--	--
				TPHC	8 3	yes	71 2	10,000	--
C/6 5-7 0'	1761 3	12/09/94	12/14/94	Total Solid	--	--	85 %	--	--
				TPHC	7 9	yes	97 7	10,000	--
D/6 5-7 0'	1761.4	12/09/94	12/14/94	Total Solid	--	--	89 %	--	--
				TPHC	8.1	yes	133 0	10,000	--
Dup D/6 5-7 0'	1761 5	12/09/94	12/14/94	Total Solid	--	--	87 %	--	--
				TPHC	6 8	yes	128 0	10,000	--
F/1 0-1 5'	1761 6	12/09/94	12/14/94	Total Solid	--	--	82 %	--	--
				TPHC	8 1	yes	258 0	10,000	--

Notes

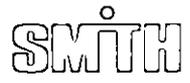
- \* Cleanup criteria for total organics
- Not applicable / does not exceed criteria
- TPHC Total Petroleum Hydrocarbons

Smith Technology Corporation (Project No 09-5004-08)



Source: Smith Technology Corporation (120)

endix A



**APPENDIX A**  
**NJDEP BUST CLOSURE APPROVAL**



State of New Jersey

Department of Environmental Protection

Christine Todd Whitman  
Governor

Robert C. Shinn, Jr.  
Commissioner

Mr. Dinker Desai  
SELFM-EH-EV  
Department of the Army  
Headquarters CECOM Fort Monmouth  
Fort Monmouth, NJ 077703-5000

OCT 7 1994

Dear Mr. Desai

Re: Underground Storage Tank Closure Approvals  
Fort Monmouth Army Facility  
Tinton Falls, Monmouth County

The NJDEP has reviewed the Underground Storage Tank (UST) Closure Plan Approval Requests dated September 2, 1994 for the following USTs

<u>Tank No.</u>	<u>Building No.</u>	<u>Product</u>	<u>Size</u>	<u>Piping Length</u>
86	608	No 2 Fuel Oil	1000	12'
103	671	No 2 Fuel Oil	1000	14'
107	686	No 2 Fuel Oil	2000	18'
93	620	No 2 Fuel Oil	1000	22'
90	616	No 2 Fuel Oil	1000	12'
106	682	No 2 Fuel Oil	1080	22'
78	508	No 2 Fuel Oil	1500	15'

These closure requests are consistent with the *Technical Requirements for Site Remediation* (N J A C 7 26E) and are therefore acceptable to the NJDEP (with the incorporation of the comment below). A copy of this letter should be immediately accessible at each of these UST removal locations.

The NJDEP has also received a request dated September 9, 1994 from Mr. James Ott, Acting Director, which requests a variance from the Closure Approval Requests for use of polytetrafluoroethylene (PTFE) trowels to polystyrene trowels. Neither of these types of trowels is acceptable to the NJDEP. In accordance with the *Field Sampling Procedures Manual (May 1992)*, only appropriately decontaminated stainless steel trowels are acceptable. Please correct the UST closure plans to reflect the requirement to use stainless steel trowels.

If you should have any questions or require additional information, please do not hesitate to contact me at (609) 633-1455.

Sincerely,

Ian R. Curtis, Case Manager  
Bureau of Federal Case Management

cc Mr. James Ott, FTMMTH

S:\RPC\BFCM\FTMMTH17.IRC



**SMITH**

**APPENDIX B  
CERTIFICATIONS**

**UNDERGROUND STORAGE TANK (UST)  
CLOSURE CERTIFICATION**

BUILDING NO. 545

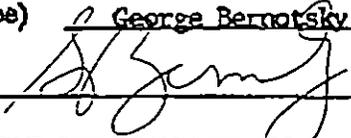
NJDEP UST REGISTRATION NO. 81533-78

DATE TANK REMOVED 12/6/94

IJO / CONTRACT NUMBER 91-0148

I CERTIFY UNDER PENALTY OF LAW THAT TANK DECOMMISSIONING ACTIVITIES WERE PERFORMED IN COMPLIANCE WITH NJAC 7:14B-9.2(b)3. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE, INACCURATE, OR INCOMPLETE INFORMATION, INCLUDING FINES AND/OR IMPRISONMENT.

NAME (Print or Type) George Bernotsky

SIGNATURE 

NJDEP UST CLOSURE CERTIFICATE NO. 0003249

COMPANY PERFORMING TANK DECOMMISSIONING CUTE Inc

NJDEP UST CLOSURE CORPORATE CERTIFICATE NO. 0200128

DATE OF SUBMITTAL 1/13/95

UST-014  
2/91



FOR STATE USE ONLY

UST # \_\_\_\_\_  
Date Rec'd \_\_\_\_\_  
TMS # \_\_\_\_\_  
Staff \_\_\_\_\_

State of New Jersey  
Department of Environmental Protection and Energy  
Division of Responsible Party Site Remediation  
CN 028  
Trenton NJ 08625-0028  
Tel # 609-984-3156  
Fax # 609-292-5604

Scott A. Weiner  
Commissioner

Karl J. Delane  
Director

**UNDERGROUND STORAGE TANK  
SITE ASSESSMENT SUMMARY**

*Under the provisions of the Underground Storage  
of Hazardous Substances Act  
in accordance with N.J.A.C. 7-14B*

This Summary form shall be used by all owners and operators of Underground Storage Tank Systems (USTS) who have either reported a release and are subject to the site assessment requirements of N.J.A.C. 7-14B-8.2 or who have closed USTS pursuant to N.J.A.C. 7-14B-9.1 et seq. and are subject to the site assessment requirements of N.J.A.C. 7-14B-9.2 and 9.3

**INSTRUCTIONS**

- Please print legibly or type
- Fill in all applicable blanks. This form will require various attachments in order to complete the Summary. The technical guidance document Interim Closure Requirements for USTs, explains the regulatory (and technical) requirements for closure and the Scope of Work, Investigation and Corrective Action Requirements for Discharges from Underground Storage Tanks and Piping Systems explains the regulatory (and technical) requirements for corrective action
- Return one original of the form and all required attachments to the above address
- Attach a scaled site diagram of the subject facility which shows the information specified in Item IV B of this form
- Explain any "No" or "N/A" response on a separate sheet

Date of Submission \_\_\_\_\_

Bldg. 545

081533-78  
FACILITY REGISTRATION #

**I. FACILITY NAME AND ADDRESS**

US Army Fort Monmouth, New Jersey

Directorate of Public Works, Building 167

Fort Monmouth, NJ 07703 County Monmouth

Telephone No. 908-532-1475

**OWNER'S NAME AND ADDRESS, if different from above**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Telephone No. \_\_\_\_\_

II. DISCHARGE REPORTING REQUIREMENTS

- A. Was contamination found?  Yes  No If Yes, Case No. \_\_\_\_\_  
(Note: All discharges must be reported to the Environmental Action Hotline (609) 292-7172)
- B. The substance(s) discharged was(were) N/A
- C. Have any vapor hazards been mitigated?  Yes  No  N/A

III. DECOMMISSIONING OF TANK SYSTEMS

Closure Approval No. letter dated  
October 7, 1994

The site assessment requirements associated with tank decommissioning are explained in the Technical Guidance Document, Interim Closure Requirements for UST's, Section V, A-D. Attach complete documentation of the methods used and the results obtained for each of the steps of tank decommissioning used. Please include a site map which shows the locations of all samples and borings, the location of all tanks and piping runs at the facility at the beginning of the tank closure operation and annotated to differentiate the status of all tanks and piping (e.g., removed, abandoned, temporarily closed, etc.). The same site map can be used to document other parts of the site assessment requirements, if it is properly and legibly annotated.

IV. SITE ASSESSMENT REQUIREMENTS

A. Excavated Soil

Any evidence of contamination in excavated soil will require that the soil be classified as either Hazardous Waste or Non-Hazardous Waste. Please include all required documentation of compliance with the requirements for handling contaminated excavated soil (if any was present) as explained in the technical guidance documents for closure and corrective action. Describe amount of soil removed, its classification and disposal location.

B. Scaled Site Diagrams

1. Scaled site diagrams must be attached which include the following information:

- a. North arrow and scale
- b. The locations of the ground water monitoring wells
- c. Location and depth of each soil sample and boring
- d. All major surface and sub-surface structures and utilities.
- e. Approximate property boundaries
- f. All existing or closed underground storage tank systems, including appurtenant piping
- g. A cross-sectional view indicating depth of tank, stratigraphy and location of water table
- h. Locations of surface water bodies

C. Soil samples and borings (check appropriate answer)

1. Were soil samples taken from the excavation as prescribed?  Yes  No  N/A
2. Were soil borings taken at the tank system closure site as prescribed?  Yes  No  N/A
3. Attach the analytical results in tabular form and include the following information about each sample
  - a. Customer sample number (keyed to the site map)
  - b. The depth of the soil sample
  - c. Soil boring logs
  - d. Method detection limit of the method used
  - e. QA/QC information as required

D. Ground Water Monitoring

1. Number of ground water monitoring wells installed 0

2. Attach the analytical results of the ground water samples in tabular form. Include the following information for each sample from each well:

- a. Site diagram number for each well installed
- b. Depth of ground water surface
- c. Depth of screened interval
- d. Method detection limit of the method used
- e. Well logs
- f. Well permit numbers
- g. QA/QC information as required

V. SOIL CONTAMINATION

A. Was soil contamination found?  Yes  No

If "Yes", please answer Question B-E

If "No", please answer Question B

B. The highest soil contamination still remaining in the ground has been determined to be:

- 1. N/A ppb total BTEX, N/A ppb total non-targeted VOC
- 2. N/A ppb total B/N, N/A ppb total non-targeted B/N
- 3. 258.0 ppm TPHC
- 4. N/A ppb \_\_\_\_\_ (for non-petroleum substance)

C. Remediation of free product contaminated soils

- 1. All free product contaminated soil on the property boundaries and above the water table are believed to have been removed from the subsurface  Yes  No
- 2. Free product contaminated soils are suspected to exist below the water table  Yes  No
- 3. Free product contaminated soils are suspected to exist off the property boundaries.  Yes  No

D. Was the vertical and horizontal extent of contamination determined?  Yes  No  N/A

E. Does soil contamination intersect ground water?  Yes  No  N/A

VI. GROUND WATER CONTAMINATION N/A

A. Was ground water contamination found?  Yes  No

If "Yes", please answer Questions B-G.

If "No", please answer only Question B.

B. The highest ground water contamination at any 1 sampling location and at any 1 sampling event to date has been determined to be:

- 1. \_\_\_\_\_ ppb total BTEX, \_\_\_\_\_ ppb total non-targeted VOC
- 2. \_\_\_\_\_ ppb total B/N, \_\_\_\_\_ ppb total non-targeted B/N
- 3. \_\_\_\_\_ ppb total MTBE, \_\_\_\_\_ ppb total TBA
- 4. \_\_\_\_\_ ppb \_\_\_\_\_ (for non-petroleum substance)
- 5. greatest thickness of separate phase product found \_\_\_\_\_
- 6. separate phase product has been delineated  Yes  No  N/A

C. Result(s) of well search

1. A well search (including a review of manual well records) indicates that private, municipal or common wells do exist within the distances specified in the Scope of Work.  Yes  No  N/A

2. The number of these wells identified is \_\_\_\_\_

D. Proximity of wells and contaminant plume

1. The shallowest depth of any well noted in the well search which may be in the horizontal or vertical potential path(s) of the contaminant plume(s) is \_\_\_\_\_ feet below grade (consideration has been given for the effects of pumping, subsurface structures, etc. on the direction(s) of contaminant migration). This well is \_\_\_\_\_ feet from the source and its screening begins at a depth of \_\_\_\_\_ feet.
2. The shallowest depth to the top of the well screen for any well in the potential path of the plume(s) (as described in D1 above) is \_\_\_\_\_ feet below grade. This well is located \_\_\_\_\_ feet from the source.
3. The closest horizontal distance of a private, commercial or municipal well in the potential path of the plume (as determined in D1) is \_\_\_\_\_ feet from the source. This well is \_\_\_\_\_ feet deep and screening begins at a depth of \_\_\_\_\_ feet.

E. A plan for separate phase product recovery has been included.  Yes  No  N/A

F. A ground water contour map has been submitted which includes the ground water elevations for each well.  Yes  No  N/A

G. Delineation of contamination

1. The ground water contaminants have been delineated to MCLs or lower values at the property boundaries.  Yes  No
2. The plume is suspected to continue off the property at concentrations greater than MCLs.  Yes  No
3. Off property access (circle one):  is being sought  has been approved  has been denied

VII. SITE ASSESSMENT CERTIFICATION [preparer of site assessment plan - N.J.A.C. 7:14B-8.3(b) & 9.5(a)3]

The person signing this certification as the "Qualified Ground Water Consultant" (as defined in N.J.A.C.7:14B-1.6) responsible for the design and implementation of the site assessment plan as specified in N.J.A.C. 7:14B-8.3(a) & 9.2(b)2. must supply the name of the certifying organization and certification number.

*"I certify under penalty of law that the information provided in this document is true, accurate, and complete and was obtained by procedures in compliance with N.J.A.C. 7:14B-8 and 9.1. I am aware that there are significant penalties for submitting false, inaccurate, or incomplete information, including fines and/or imprisonment."*

NAME (Print or Type) Dinkerrai M. Desai SIGNATURE \_\_\_\_\_

COMPANY NAME US Army Fort Monmouth DATE \_\_\_\_\_  
(Preparer of Site Assessment Plan)

CERTIFYING ORGANIZATION NJDEP CERTIFICATION NUMBER E0002266

VIII. TANK DECOMMISSIONING CERTIFICATION [person performing tank decommissioning portion of closure plan - N.J.A.C. 7 14B-9 5(a)4]

*"I certify under penalty of law that tank decommissioning activities were performed in compliance with N.J.A.C. 7 14B-9.2(b)3 I am aware that there are significant penalties for submitting false, inaccurate, or incomplete information, including fines and/or imprisonment."*

NAME (Print or Type) See Appendix B SIGNATURE \_\_\_\_\_

COMPANY NAME \_\_\_\_\_ DATE \_\_\_\_\_  
(Performer of Tank Decommissioning)

IX. CERTIFICATIONS BY THE RESPONSIBLE PARTY(IES) OF THE FACILITY

A. The following certification shall be signed by the highest ranking individual with overall responsibility for that facility [N.J.A.C. 7:14B-2.3(c)1].

*"I certify under penalty of law that the information provided in this document is true, accurate, and complete. I am aware that there are significant penalties for submitting false, inaccurate, or incomplete information, including fines and/or imprisonment."*

NAME (Print or Type) James Ott SIGNATURE \_\_\_\_\_

COMPANY NAME US Army Fort Monmouth DATE \_\_\_\_\_

B. The following certification shall be signed as follows [according to the requirements of N.J.A.C. 7:14B-2.3(C)2]:

- 1 For a corporation by a principal executive officer of at least the level of vice president
- 2 For a partnership or sole proprietorship, by a general partner or the proprietor, respectively, or
- 3 For a municipality, State, Federal or other public agency by either the principal executive officer or ranking elected official
- 4 In cases where the highest ranking corporate partnership, governmental officer or official at the facility as required in A above is the same person as the official required to certify in B, only the certification in A need to be made. In all other cases, the certifications of A and B shall be made.

*"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application 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. I am aware that there are significant penalties for submitting false, inaccurate, or incomplete information, including fines and/or imprisonment."*

NAME (Print or Type) \_\_\_\_\_ SIGNATURE \_\_\_\_\_

COMPANY NAME \_\_\_\_\_ DATE \_\_\_\_\_

/

## Appendix C

**SMITH**

**APPENDIX C  
WASTE MANIFEST**



State of New Jersey  
 Department of Environmental Protection and Energy  
 Hazardous Waste Regulation Program  
 Manifest Section  
 CN 421, Trenton, NJ 08625-0421

Form Approved OMB No 2050-0039 Expires 9-30-94

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

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No NJ 11 31 21 11 01 01 21 01 51 91 7   01 01 01 01		Manifest Document No 01 01 01 01		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 Communications Electronics Command Main Post, c/o James Shirghio, Bldg 250, ATTN: SELM-DL-D-11 Fort Monmouth, NJ 07703		4. Generator's Phone (908) 532-6223		5. State Manifest Document Number NJ A 1907257		6. State Generator ID (Gen Site Address) Main Post		7. State Generator ID (Gen Site Address)	
5. Transporter 1 Company Name Freehold Cartage Inc.		6. US EPA ID Number IN1JID1015141121611614		7. State Trans ID NJDEPE S 2265		8. Transporter's Phone (908) 7462-1001		9. State Trans ID NJDEPE	
7. Transporter 2 Company Name		8. US EPA ID Number		9. State Trans ID NJDEPE		10. Transporter's Phone (908) 7462-1001		11. State Trans ID NJDEPE	
9. Designated Facility Name and Site Address Lionetti Oil Recovery Co., Inc. Cheesequake & Runyon Rds. Old Bridge, NJ 08857		10. US EPA ID Number IN1JID101814101414101614		11. State Facility ID S 2265		12. Facility's Phone (908) 721-0900		13. State Facility ID	
11. US DOT Description (Including Proper Shipping Name, Hazard Class or Division, HM, ID Number and Packing Group)				12. Containers No		13. Total Quantity		14. Unit Wt/Vol	
a. X Petroleum Oil, N.O.S. Class 3 (Petroleum Oil) Combustible Liquid UN 1270 PG III BLDG 608				01011		TIT 010108		G X 7 2 2	
b. X Petroleum Oil, N.O.S. Class 3 (Petroleum Oil) Combustible Liquid UN 1270 PG III BLDG 545				01011		TIT 010100		G X 7 2 2	
c. X Petroleum Oil, N.O.S. Class 3 (Petroleum Oil) Combustible Liquid UN 1270 PG III BLDG 682				01011		TIT 010100		G X 7 2 2	
d. X Petroleum Oil, N.O.S. Class 3 (Petroleum Oil) Combustible Liquid UN 1270 PG III BLDG 624				101011		TIT 002010		G X 7 2 2	
15. Additional Descriptions for Materials Listed Above Petroleum Oil 50% Water 50% T.T. Petroleum Oil 50% Water 50% T.T.				16. Handling Codes for Wastes Listed Above R04= Filtration R04= Filtration					
15. Special Handling Instructions and Additional Information THIS MATERIAL IS NOT REGULATED BY THE FEDERAL EPA. IT IS REGULATED AS HAZARDOUS WASTE IN NJ. 71A-082533-86 41b.-78 11c.-706 11d-93 24 HOUR EMERGENCY PHONE: 201-427-2881 11 a, b, c, d ERG# 27									
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 Joseph M. Fallon				Signature Joseph M. Fallon				Month Day Year 11/12/94	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name David Smith				Signature David Smith				Month Day Year 11/12/94	
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	

NJ A 1907257

CALCULATION SHEET

Building No 343  
Tank Size 1500 gal

NJDEPE Reg No 0081533-78  
Tank Void 11.25 tons

CLEAN FILL

ITEM NO	DESCRIPTION	QUANTITY	TICKET #
	Fill	2115	18869
		2090	18870
		2050	18871
		2055	18872
		2088	18873

TOTAL 103.98

STONE

ITEM NO	DESCRIPTION	QUANTITY	TICKET #
		<del>0</del>	

TOTAL

ID#27 soil to stockpile ( +10398) - 11.25 = 92.73 tons

Chargeable clean fill 92.73

Chargeable stone ~~0~~

Bldg 545



Joseph Scarsano Sand & Gravel Co.

1463 W Park Ave., Waynde  
Asbury Park, N.J. 07712  
908-483-3533

296

18869

Name Big A Trucking

Order Date 1/5/94

Deliver Date Dec 5, 94

Address Claw Fill

Delivered  C.O.D.

F.O.B./P.U.  Charge

Item(s)	Quantity / Measure (tons, lbs., yds., ea.)	Unit Price	Total
	G 68790		
	T 27500		
	N 42290	21.15 tons	

Driver \_\_\_\_\_

Sub Total

Received Don Ellis

Delivery

\* Company not responsible for damage done off public roads. Color not guaranteed!

N.J. Tax

Have gravel well traveled  
since 1925

Total

Bldg 545



Joseph Spence Sand & Gravel Co.

1453 W Park Ave., Wayside  
Asbury Park, N.J. 07712  
908-423-3333

(296)

18870

Name Bay A Trucking  
Address CLAY FILL

Order Date 1/1/94  
Deliver Date Dec 15, 94  
Delivered  C.O.D.   
F.O.B./P.U.  Charge

Item(s)	Quantity / Measure (tons, lbs., yds., ea.)	Unit Price	Total
	G 69300'		
	T 22500		
	N 41800		
		20.90 tons	

Driver \_\_\_\_\_  
Received Dorillia

\* Company not responsible for damage done off public roads. Color not guaranteed!

*Have gravel well traveled  
since 1925*

Sub Total	
Delivery	
NJ Tax	
Total	

Bldg 545



1453 W. Park Ave., Wayzide  
Aubury Park, N.J. 07712  
908-483-3333

296

18871

Name By A. T. Mackin  
Address CLEN FILL

Order Date 1/1/85  
Deliver Date Dec 15, 84  
Delivered  C.O.D.   
F.O.B./P.U.  Charge

Item(s)	Quantity / Measure (tons, lbs., yds., ea.)	Unit Price	Total
	G 68500		
	T 29500		
	N 41000		
		20.50 tons	
Driver		Sub Total	
Received <u>Danelli</u>		Delivery	
* Company not responsible for damage done off public roads. Color not guaranteed		N.J. Tax	
		Total	

Have gravel with gravel  
since 1925

Bldg 545



1483 W. Park Ave. Wbyside  
Asbury Park, N.J. 07712  
908-493-0333

296

18872

Name Big A Trucking

Order Date 1/5/94

Deliver Date Dec 5, 94

Address CLX Fill

Delivered  C.O.D.   
F.O.B./P.L.  Charge

Item(s)	Quantity / Measure (tons, lbs., yds., ea.)	Unit Price	Total
	G 69100		
	T 29000		
	N 46,700		
		20.55 tons	

Driver \_\_\_\_\_

Sub Total

Received Donelli

Delivery

\* Company not responsible for damage done off public roads. Color not guaranteed!

N.J. Tax

Have gravel well covered!  
since 1925

Total

Bldg 545



1463 W Park Ave., Waycide  
Asbury Park, N.J. 07712  
808-483-8333

296

18873

Name Boy - A Truckey  
Address Clark Hill

Order Date           /          /            
Deliver Date DEC 15 84  
Delivered  C.O.D.   
F.O.B./P.U.  Charge

Item(s)	Quantity / Measure (tons, lbs, yds, ea.)	Unit Price	Total
	G 89250		
	T 27500	20.98 tons	
	N 41250		

Driver \_\_\_\_\_  
Received Donsella

\* Company not responsible for damage done off public roads Color not guaranteed

Have gravel with travel  
since 1925

Sub Total	
Delivery	
N.J. Tax	
Total	



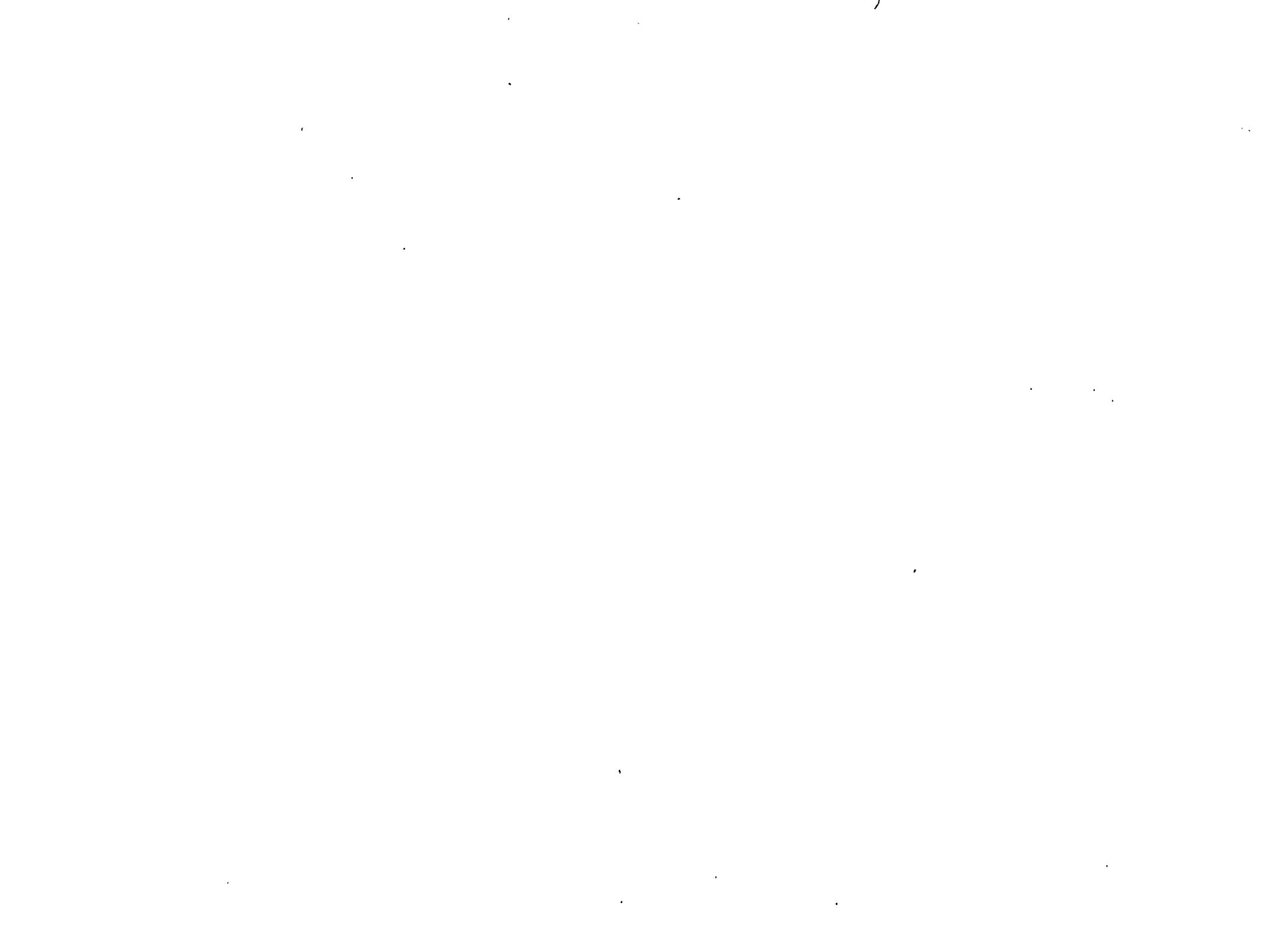
**SMITH**

**APPENDIX D**

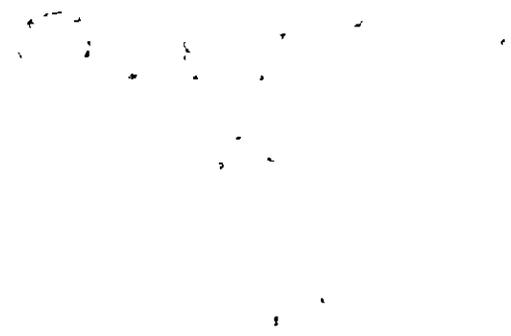
**UST DISPOSAL CERTIFICATE**

2000-1-10





**SMITH**



**APPENDIX E**

**SOIL ANALYTICAL DATA PACKAGE**

Report of Analysis  
 U S Army, Fort Monmouth Environmental Laboratory  
 NJDEPE Certification # 13461

Client. U S Army  
 DPW, SELFM-PW-EV  
 Bldg 167  
 Ft. Monmouth, NJ 07703

Lab. ID #: 1761.1- 6  
 Sample Rec'd 12/09/94  
 Analysis Start: 12/14/94  
 Analysis Comp: 12/15/94

Analysis: 418.1 (TPH)  
 Matrix: Soil  
 Analyst: S. Hubbard  
 Ext Meth 3540A

NJDEPE UST Reg.#: 81533-78  
 Closure #:  
 DICAR #: 94-12-6-1355-21  
 Location #: Bldg. 545

Lab ID	Description	%Solid	Result (mg/Kg)	MDL
1761.1	Site A, OVA=ND	81	102	7 9
1761.2	Site B, OVA=ND	86	71.2	8 3
1761.3	Site C, OVA=ND	85	97.7	7 9
1761.4	Site D, OVA=ND	89	133.	8 1
1761.5	Site E, dup of D OVA=ND	87	128	6 8
1761.6	Fuel line (Site F) OVA=ND	82	258.	8 1
M Bl.	Method Blank	100	ND	3 3

Notes: ND = Not Detected, MDL = Method Detection Limit  
 \* = Silica Gel Added, NA = Not Applicable  
 1760.6S= 92%, 1760.6SD= 76%, RPD=19.2% 1760.6 Dup=112%  
 1762.5S= 93%, 1762.5SD= 96%, RPD= 2.4% 1762.5 Dup=100%  
 QC Limits: Recovery= +/-24%, RPD=23%

*Brian K. McKee*  
 Brian K McKee  
 Laboratory Director



# U.S. ARMY FORT MONMOUTH

P.O. #. PW-7

Chain of Custody

Project #:		Sampler: <u>Dinker DeSai</u>		Date / Time: <u>12/9/01 208</u>		Analysis Parameters				Start:			
Customer: <u>Delser</u>		Site Name: <u>R.# 81633</u> <u>BLDG 545 - 78</u>				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Leads</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Manganese</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Cadmium</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Copper</div> </div>				Finish:			
Phone: <u>94-12-6-1355-21</u>										Preservation Method			
Lab Sample ID Number	Date/Time	Customer Sample Location/ID Number	Sample Matrix	# of Bottles								Remarks	
<u>1761.1</u>	<u>12/9</u>	<u>2-15</u>	<u>Site A</u>	<u>541</u>	<u>X</u>	<u>X</u>	<u>X</u>					<u>ND</u>	
<u>2</u>	<u>"</u>	<u>2-19</u>	<u>Site B</u>	<u>"</u>	<u>X</u>	<u>X</u>	<u>X</u>					<u>ND</u>	
<u>3</u>	<u>"</u>	<u>2-22</u>	<u>Site C</u>	<u>"</u>	<u>X</u>	<u>X</u>	<u>X</u>					<u>ND</u>	
<u>4</u>	<u>"</u>	<u>2-26</u>	<u>Site D</u>	<u>"</u>	<u>X</u>	<u>X</u>	<u>X</u>					<u>ND</u>	
<u>5</u>	<u>"</u>	<u>2-29</u>	<u>Site E (Dup) of D</u>	<u>"</u>	<u>X</u>	<u>X</u>	<u>X</u>					<u>ND</u>	
<u>6</u>	<u>"</u>	<u>2-32</u>	<u>Fuel Line (Site F)</u>	<u>"</u>	<u>X</u>	<u>X</u>	<u>X</u>					<u>ND</u>	
Relinquished By (signature): <u>[Signature]</u>		Date / Time: <u>12/9/01 1530</u>		Received By (signature): <u>A. Hubbard</u>		Shipped By:							
Relinquished By (signature):		Date / Time:		Received for Lab by (signature):				Date / Time:					
Note: A drawing depicting sample location should be attached or drawn on the reverse side of this chain of custody.													

December 16, 1994 0740

Sarah J. Hubbard

2CM/M 500 MV=CAL-0

Std. 40.75 69 MV R. 9996

Std. 81.5 132 MV

Std. 163 254 MV

Blank 0 MV

1761.5 29 MV

1761.6 42 MV

1762.1 8 MV

1762.2 22 MV

1762.3 10 MV

1762.4 1 MV

1762.5 0 MV ND

1762.5 0 MV ND Duplicate

1762.5 44 MV Spike

1762.5 45 MV Dup. Spike

December 15, 1994

Sarah J. Hubbard  
OT18

2CM/M 500 MV=CAL-0

Std. 40.75 73 MV

Std. 81.5 121 MV

Std. 163 242 MV

Method Blank 0 MV

1591.1 59 MV

1760.5 18 MV

1760.6 ~~10 MV~~ <sup>21/5/94</sup> sample  
14 ~~10 MV~~ <sup>14</sup> ~~10 MV~~ <sup>14</sup> ~~10 MV~~ <sup>14</sup>

1760.6 73 MV

1760.6 15 MV duplicate

1760.6 149 MV Spike

1760.6 123 MV Spike Dup.

1561.1 21 MV

1561.2 17 MV

1561.3 21 MV

1561.4 27 MV

PHC Conformance/Non-conformance Summary Report

- |  | <u>No</u> | <u>Yes</u> |
|--|-----------|------------|
| 1 Blank Contamination - If yes, list the sample and the corresponding concentrations in each blank   | —         | ✓<br>—     |
| <hr/> <hr/>  |           |            |
| 2 Matrix Spike/Matrix Sp Dup. Recoveries Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range) | —         | ✓<br>—     |
| <hr/> <hr/>  |           |            |
| 3. IR Spectra submitted for standards, blanks, & samples   | —         | ✓<br>—     |
| 4 Chromatograms submitted for standards, blanks, and samples if GC fingerprinting was conducted.   | —         | NA<br>—    |
| 5 Extraction holding time met. (If not met, list number of days exceeded for each sample)  | —         | ✓<br>—     |
| <hr/> <hr/>  |           |            |
| 6 Analysis holding time met (If not met, list number of days exceeded for each sample)   | —         | ✓<br>—     |

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N J A.C. 7.18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW 846 for Solid Waste Analysis. I have personally examined the information contained in this report, and to the best of my knowledge, I believe that the submitted information is true, accurate, complete, and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

Project #1761

  
\_\_\_\_\_  
Brian K McKee  
Laboratory Manager