United States Army

Fort Monmouth, New Jersey

Underground Storage Tank Closure and Site Investigation Report

Building 2529 Charles Wood Area

NJDEP UST Registration No. 0081515-20

December 1997

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200.1e FTMM_02.08_0943_a UNDERGROUND STORAGE TANK CLOSURE AND SITE INVESTIGATION REPORT

BUILDING 2529

CHARLES WOOD AREA NJDEP UST REGISTRATION NO. 0081515-20

DECEMBER 1997

PREPARED FOR:

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

PREPARED BY:

SMC ENVIRONMENTAL SERVICES GROUP 501 ALLENDALE ROAD KING OF PRUSSIA, PA 19406

PROJECT NO. 2429-3080

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TABLE OF CONTENTS

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EXECUTIVE SUMMARY	iv
1.0 UNDERGROUND STORAGE TANK DECOMMISSIONING ACTIVITIES	1
1.1 OVERVIEW 1.2 SITE DESCRIPTION	1 2
1.2.1 Geological/Hydrogeological Setting	2
1.3 HEALTH AND SAFETY 1.4 REMOVAL OF UNDERGROUND STORAGE TANK	4 4
1.4.1 General Procedures 1.4.2 Underground Storage Tank Excavation and Cleaning	4 4
1.5 UNDERGROUND STORAGE TANK TRANSPORTATION AND DISPOSAL 1.6 MANAGEMENT OF EXCAVATED SOILS	5 5
2.0 SITE INVESTIGATION ACTIVITIES	6
2.1 OVERVIEW 2.2 FIELD SCREENING/MONITORING 2.3 SOIL SAMPLING	6 6 7
3.0 CONCLUSIONS AND RECOMMENDATIONS	8
3.1 SOIL SAMPLING RESULTS 3.2 CONCLUSIONS AND RECOMMENDATIONS	8 8

TABLE OF CONTENTS (CONTINUED)

TABLES

11.1

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- Table 1Summary of Post-Excavation Sampling Activities
- Table 2Post-Excavation Soil Sampling Results

FIGURES

- Figure 1 Site Location Map
- Figure 2 Site Map
- Figure 3 Cross Sectional View
- Figure 4 Soil Sampling Location Map

APPENDICES

- Appendix A NJDEP-BUST Closure Approval Letter
- Appendix B Site Assessment Summary
- Appendix C Waste Manifest
- Appendix D UST Disposal Certificate
- Appendix E Soil Analytical Data Package
- Appendix F Photographs

EXECUTIVE SUMMARY

UST Closure

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On September 26, 1995, 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 July 18, 1995 at the Charles Wood area of the U.S. Army Fort Monmouth, Fort Monmouth, New Jersey. The UST, NJDEP Registration No. 0081515-20 (Fort Monmouth ID No. 2529), was located north of Building 2529 in the Charles Wood area of U.S. Army, Fort Monmouth. UST No. 0081515-20 was a 1,000-gallon No. 2 fuel oil UST. The UST fill port was located directly above the tank.

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*. 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*. Soils surrounding the tank were screened visually and with air monitoring equipment for evidence of contamination. Groundwater was encountered at 7.2 feet below ground surface and no sheen was observed. Following removal, the UST was inspected for corrosion holes. No holes were noted in the UST and no evidence of potentially contaminated soils or groundwater was observed surrounding the tank. Samples contained levels of TPHC ranging in concentration from 320 mg/kg to 653 mg/kg.

Site Restoration

Following receipt of all post-excavation soil sampling results, the excavation was backfilled to grade with native soil from the Building 2500 area. The excavation site was then restored to its original condition.

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. 0081515-20 at Building 2529.

1.0 UNDERGROUND STORAGE TANK DECOMMISSIONING ACTIVITIES

1.1 OVERVIEW

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One underground storage tank (UST), New Jersey Department of Environmental Protection (NJDEP) Registration No. 0081515-20, was closed at Building 2529 at the Charles Wood area of U.S. Army Fort Monmouth, Fort Monmouth, New Jersey on September 26, 1995. Refer to site location map on Figure 1. This report presents the results of the Department of Public Works' (DPW) implementation of the UST Decommissioning/Closure Plan submitted to the NJDEP on June 21, 1995 and approved on July 18, 1995. The UST was a steel 1,000-gallon tank containing No. 2 fuel oil.

Decommissioning activities for UST No. 0081515-20 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. The decommissioning activities were conducted by DPW personnel who are registered and certified by the NJDEP for performing UST closure activities. Closure of UST No. 0081515-20 proceeded under the approval of the NJDEP-BUST. The NJDEP-BUST Closure Approval Letter and signed Site Assessment Summary form for UST No. 0081515-20 are included in Appendices A and B, respectively.

Based on inspecting the UST, field screening of subsurface soils and groundwater, and reviewing analytical results of collected soil samples, the DPW has concluded that no significant historical discharges are associated with the UST or associated piping.

This UST Closure and Site Investigation Report has been prepared by SMC Environmental Services Group, 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. October 1990 and revisions dated November 1, 1991).

This report was prepared using information collected 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.

1.2 SITE DESCRIPTION

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Building 2529 is located in the Charles Wood area of the Fort Monmouth Army Base. UST No. 0081515-20 was located north of Building 2529 and appurtenant piping ran approximately twelve (12) feet south from the excavation to Building 2529. 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 Building 2529. 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 Charles Wood 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 (Zapecza, 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 Zapecza, 1990).

Local Geology

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

Over the last 80 years, the natural topography of Fort Monmouth has been altered by excavation and filling activities by the military. Topographic elevations for the Charles Wood area range from 20 feet above mean seal level (MSL) to 71 feet above MSL.

Hydrogeology

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The water table aquifer in the Charles Wood 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.

Six well records for monitor wells installed at locations within the Charles Wood area in February 1981 were used for reference. The wells were completed to total depths ranging from 20 to 25 feet below ground surface (bgs). Water was encountered at depths ranging from 5 to 12 feet bgs.

The lithologic descriptions for these borings described deposits that were primarily fine to coarse, glauconitic sands, with traces of gravel, silt, and clay. These sediments are part of the Hornerstown Marl, from the Tertiary Period (Paleocene Series, approximately 58 to 66 Ma). According to Jablonski, wells drilled in the Red Bank and Tinton Sands may produce from 2 to 25 gallons per minute (gpm). Some well owners have reported acidic water that requires treatment to remove iron.

Shallow groundwater is locally influenced within the Charles Wood area by the following factors:

- tidal influence (based on proximity to the Atlantic Ocean, rivers, and tributaries)
- topography
- nature of the fill material within the Charles Wood area
- presence of clay and silt lenses in the natural overburden deposits
- local groundwater recharge areas (i.e., streams, lakes)

Due to the fluvial nature of the overburden deposits (i.e., sand and clay lenses), shallow groundwater flow direction is best determined on a case-by-case basis. Building 2529 is located, approximately 200 feet south of a feeder stream of Wampum Brook, the nearest water body. Based on the Charles Wood area topography, the groundwater flow in the area of Building 2529 is anticipated to be to the northeast.

1.3 HEALTH AND SAFETY

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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 identified 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 hole 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 90 gallons of liquid from the UST and its associated piping were transported by Lionetti Oil Recovery Co. Inc to the Lionetti Oil Recovery Co. Inc. facility, a NJDEP-approved petroleum recycling and disposal company located in Old Bridge, New Jersey. Refer to Appendix C for the waste manifest (NJA-2134617).

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. No holes or punctures 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. No evidence of contamination was observed. Soil screening was also performed along the piping associated with the UST. No contamination was noted anywhere along the piping length. Groundwater was encountered at 7.2 feet below ground surface and no sheen was observed.

Following removal of the UST, an eight-inch thick concrete pad, approximately 8 feet wide by 12 feet long was removed from the excavated area. Approximately one foot of topsoil was between the bottom of the UST and the top of the concrete pad. See Figure 3 for a cross-sectional view of the excavated area.

1.5 UNDERGROUND STORAGE TANK TRANSPORTATION AND DISPOSAL

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

The UST was labeled prior to transport with the following information:

• Site of origin

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- Contact person
- NJDEP UST Facility ID number
- Name of transporter/contact person
- Destination site/contact person

1.6 MANAGEMENT OF EXCAVATED SOILS

Based on OVA air monitoring and TPHC analysis results from the post-excavation soil samples, no soils exhibited signs of contamination. Therefore, the excavated soils were used as backfill following removal of the UST.

2.0 SITE INVESTIGATION ACTIVITIES

2.1 OVERVIEW

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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* (October 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.

- Subsurface Evaluator: Eugene W. Lesinski Employer: U.S. Army, Fort Monmouth Phone Number: (908) 532-0989
 NJDEP Certification No.: 0014537
- Analytical Laboratory: U.S. Army Fort Monmouth Environmental Laboratory Contact Person: Daniel K. Wright Phone Number: (908) 532-4359
 NJDEP Company Certification No.: 13461
- Hazardous Waste Hauler: Lionetti Oil Recovery Co. Inc Contact Person: Richard Dirienzo Phone Number: (908) 721-0900 NJDEP Hazardous Waste Hauler No.: S6247

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. Soil excavated from around the tank and appurtenant piping, as well as the UST excavation sidewalls and bottom, did not exhibit any evidence of potential contamination.

2.3 SOIL SAMPLING

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On September 26, 1995, following the removal of the UST, post-excavation soil samples A, B, C, D, E, and F (DUP D) were collected from a total of five (5) locations of the UST excavation. Sidewall samples were collected at the edge of the buried concrete pad and bottom samples were collected between the bottom of the tank and the concrete pad. The samples were collected at a depth of 7.0 feet bgs. Sample E was collected adjacent to Building 2529 along the former piping length of the excavation, which was approximately twelve (12) feet in length. The piping sample was collected at a depth of 2.0 feet bgs. All samples were analyzed for total petroleum hydrocarbons (TPHC) and total solids.

U.S. Army personnel in accordance with the NJDEP Technical Requirements and the NJDEP Field Sampling Procedures Manual performed the site assessment. A summary of sampling activities including parameters analyzed is provided in Table 1. The post-excavation soil samples were collected using NJDEP *Field Sampling Procedures Manual* (1992) standard sampling procedures. 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

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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 September 26, 1995. All samples were analyzed for TPHC and total solids. 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 locations are shown on Figure 4. The analytical data package is provided in Appendix E.

All post-excavation soil samples collected on September 26, 1995, from the UST excavation and from below piping associated with the UST contained concentrations of TPHC below the NJDEP soil cleanup criteria. Samples contained levels of TPHC ranging in concentration from 320 mg/kg to 653 mg/kg.

3.2 CONCLUSIONS AND RECOMMENDATIONS

The analytical results for all post-excavation soil samples collected from the UST closure excavation at Building 2529 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. 0081515-20 at Building 2529.

TABLES

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SUMMARY OF POST-EXCAVATION SAMPLING ACTIVITIES BUILDING 2529, CHARLES WOOD AREA FORT MONMOUTH, NEW JERSEY

Page 1 of 1			<u>.</u>	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	··
Sample ID	Date of Collection	Date Analysis Started	Matrix	Sample Type	Analytical Parameters*	Analysis Method
Α	9/26/95	9/26/95	Soil	Post-Excavation	TPHC	418.1
В	9/26/95	9/26/95	Soil	Post-Excavation	TPHC	418.1
С	9/26/95	9/26/95	Soil	Post-Excavation	TPHC	418.1
D	9/26/95	9/26/95	Soil	Post-Excavation	TPHC	418.1
Е	9/26/95	9/26/95	Soil	Post-Excavation	TPHC	418.1
F (DUP D)	9/26/95	9/26/95	Soil	Post-Excavation	TPHC	418.1

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* TPHC Total Petroleum Hydrocarbons

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TABLE 2

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POST-EXCAVATION SOIL SAMPLING RESULTS BUILDING 2529, CHARLES WOOD AREA FORT MONMOUTH, NEW JERSEY

Page 1 of 1

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Sample ID/ Depth	Sample Laboratory ID	Sample Date	Analysis Date	Analytical Method Used	Sample Quantitation Limit (mg/kg)	Compound of Concern	Results (mg/kg) *	NJDEP Soil Cleanup Criteria ** (mg/kg)	Exceeds Cleanup Criteria
A/7.0'	1945.1	9/26/95	9/26/95	Total Solid			87%		
				TPHC	100	yes	555	10,000	No
B/7.0'	1945.2	9/26/95	9/26/95	Total Solid			89%		
				TPHC	100	yes	460	10,000	No
C/7.0'	1945.3	9/26/95	9/26/95	Total Solid			92%		
				TPHC	100	yes	320	10,000	No
D/7.0'	1945.4	9/26/95	9/26/95	Total Solid			89%		
				TPHC	100	yes	360	10,000	No
E/2.0'	1945.5	9/26/95	9/26/95	Total Solid			92%		
				TPHC	100	yes	497	10,000	No
F (DUP D)/ 7.0'	1945.6	9/26/95	9/26/95	Total Solid		-	90%		
. ,				TPHC	100	ves	653	10,000	No

Note:

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Total Solid results are expressed as a percentage. NJDEP Residential Direct Contact soil cleanup criteria for total organics **

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TPHC Total Petroleum Hydrocarbons

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NJDEP-BUST CLOSURE APPROVAL



State of New Jersey

Department of Environmental Protection

Robert C. Shinn, Jr. Commissioner

JUL 1 8 1995

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

Dear Mr. Desai:

Christine Todd Whitman

Governor

Re: UST Closure Plan Approvals Fort Monmouth Army Base Fort Monmouth, Monmouth County

The NJDEP has reviewed the Underground Storage Tank Closure Plans for eight Number 2 Fuel Oil underground storage tanks located on the Fort Monmouth Army Base. Based on this review, the NJDEP hereby approves the closure plans as submitted on June 21, 1995 for the following tanks:

·							
AREA	REGISTRATION NO.	BLDG NO.	UST NO.	TANK SAMP	LINE SAMP	REMOVAL DATE	REPORT DATE
CW - West	0081515	2504	16	4/1	1	7/24/95	11/24/95
CW - West	0081515	2529	20	4/1	1	7/25/95	11/29/95
CW - West	0081515	2535	25	4/1	1	7/26/95	11/28/95
CW - West	0081515	2536	26	4/1	2	7/28/95	11/30/95
CW - West	0081515	2537	27	4/1	1	8/1/95	12/4/95
CW - West	0081515	2561	31	4/1	2	8/2/95	12/4/95
CW - West	0081515	2532	22	4/1	1	6/5/95	10/6/95
CW - West	0081515	2533	23	4/1	2	6/7/95	10/9/95

Please advise me regarding the progress of tanks 22 and 23.

If you should have any questions or require any additional information, please feel free to contact me at (609) 633-1455.

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

cc. Kevin Kratina, BUST

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	ATTN	I: UST Program		UST NO.
	(6)	09) 984-3156		
	ST		NG FORM	······
1	for rep	borting activities at at	h UST facility:	-
	General Facility Informat	lion Changes	Sale or 7	Transfer
		or Memoval)		la Modilcallon
	Change in Service			Change Oniv
	Check OAH V Oce To	me at Antivity - Pr-	niate Earn Ear The	t Antinitus
	(More tha	an one tank can be li	sted per activity)	
	facilities must submit a	NEW tank installa a Registration Que:	tions at existing stionnaire for the s	registered new tanks.
Answer questions	1 through 5 and others as an	plicable.		
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1. Company name	e and address (as it		Y - FOR	
ethears ou isa		DPW-	BUILDING	173
		FORT N	AONMOUTH	NJ 07703
		FORT A ATTN?	LONMOUTH EUGENE	NJ 07703 W. LESINSKI
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APPENDIX B

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FOR STATE USE ONLY UST# Date Rec'd TMS # Staff

STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION Division of Responsible Party Site Remediation CN 029 TRENTON, N.J. 08625-0028 Tel. # 609-984-3156 Fax.# 609-292-5604

Karl J. Delaney 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. <u>and</u> are subject to the site assessment requirements of N.J.A.C. 7:14B-9.2 and 9.3.

INSTRUCTIONS:

Scott A. Weiner

Commisioner

- Please print legibly or type.
- Fill in all applicable blanks. This form will require various <u>attachments</u> in order to complete the Summary. The technical guidance document, <u>Interim Closure Requirements for UST's</u>, explains the regulatory (and technical) requirements for closure and the <u>Scope of Work. Investigation and Corrective Action Requirements for Discharges from Underground Storage Tanks and Piping Systems</u> 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:

0192477-1 Facility Registration #

1. FACILITY NAME AND ADDRESS:

Building No. 2529 UST No. 0081515-20

U.S. Army Fort Monmouth New Jersey		
Directorate of Engineering and Housing	Building 167	
Fort Monmouth New Jersey 07703	County Monmouth	
Telephone No. 908-532-6224		

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

Telephone No.

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II. DISCHARGE REPORTING REQUIREMENTS

The substance(s) discharged was (were) _____ N/A

- A. Was contamination found ? _____Yes __X__No If Yes, Case No._____ (Note: All discharges must be reported to the Environmental Action Hotline (609) 292-7172)
- C. Have any vapor hazards been mitigated?____Yes ____No ___X_ N/A

III. DECOMMISSIONING OF TANK SYSTEMS Closure approval No. July 18, 1995 letter

The site assessment requirements associated with <u>tank decommissioning</u> are explained in the Technical Guidance Document, Interim Closure Requirements for UST's, Section V. A.-D. <u>Attach</u> complete documentation of the methods used and the results obtained for each of the steps of <u>tank decommissioning</u> used. Please include a <u>site</u> 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 <u>of all tanks and piping</u> (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 subsurface 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? X Yes No N/A
 - 2. Were soil borings taken at the tank system closure site as prescribed? _____Yes ____ No __X 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

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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 __X___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. ____NA___ppb total B/N, ____NA___ppb total non-targeted B/N
- 3. <u>653</u> ppm TPHC
- 4. <u>N/A</u> ppb <u>N/A</u> (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
 - Free product contaminated soils are suspected to exist below the water table. _____ Yes _____ No
 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

- A. Was ground water contamination found? <u>Yes X</u> 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: N/A

1	ppb total BTEX	P	pb total non-t	argeted VOC
2	ppb total B/N		ppb total non	n-targeted B/N
3	ppb total MTBE	p	ob total TBA	
4	ppb		(for non-petro	oleum substance)
5.	greatest thickness of separate phase product found _			
6.	separate phase product has been delineated	Yes	No	N/A

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- C. Results (s) of well search
 - 1. A well search (including a review of manual well records) indicates that private, municipal or commercial 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
 - 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 above) is ______ feet below grade. This well is located ______ feet from the source.
 - The closest horizontal distance of a private, commerical, 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 ____NA
- 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 properly at concentrations greater than MCLs. _____Yes _____No
 - 3. Off property access (circle one): is being sought has been approved has been denied
- VII. <u>SITE ASSESSMENT CERTIFICATION</u> [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. I am aware that there are significant penalties for submitting false, inaccurate, or incomplete information, including fines and/or imprisonment."

NAME (Print or Type) Eugene Lesinski SIGNATURE SEE ATTACHED SUB-SURFACE EVALU	ATOR LOG
COMPANY NAME U.S. Army Fort Monmouth (Preparer of Site Assessment Plan)	DATE
CERTIFYING ORGANIZATION N.IDEP	CERTIFYING NUMBER 0014537

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VIII. <u>TANK DECOMMISSIONING CERTIFICATION</u> [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) SAME AS SITE ASSESSMENT SIGNATURE

COMPANY NAME

(Peformer of Tank Decommissioning)

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

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)11].

"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."

DATE

NAME (Print or Type)	James Ott	Ins all
COMPANY NAME	U.S. Army Fort Monmouth	3/25/98

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

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WASTE MANIFEST

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	WASTE MANIFEST	WJJ212110101210191718	319161/17	of	is not require	d by Federal I
1	U.S. ARMY COMMUNICATIO	ns Electronics Comm	And		JA 21	
	ATTN! SELFM-FW-EV	Fort Menmiuth	5. 115 N.J.	8. State Ger	nerator's ID-(Gen.	Site Address)
	4. Generator's Phone (908-1532- 5. Transporter 1 Company Name	6. US EPA ID NU	07,70 <u>7</u> Imber	C. State Tra	ID-NJDEPE	6247
	LIONETTI OIL RECOVERY (20., INC. NJJ9849	44964	NA STAR	Decal No	
	7. Transporter 2 Company Name		mber	D. Transport F. State Tran	er's Phone (9(<u>)8)</u> 721-090(
.]	9. Designated Facility Name and Site Address	CO. INC. T/A ^{0.} LORCO	mber		Decal No	
	RUNYON & CHEESEQUAKE RO	DADS		F. Transport	er's Phone ()
	OLD BRIDGE NJ 08857	N J D 0 8 4 0	4 4 0 6 4	H. Facility's I	Phone (908	721-0900
	11. US DOT Description (Including Proper Shippin ID Number and Packing	ng Name, Hazard Class or Division,	12. Conta	iners	13. 14. Total Unit	I. Waste No
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	 GENERATOR'S CERTIFICATION: I hereby de classified, packed, marked, and labeled, and 	clare that the contents of this consignment are are in all respects in proper condition for tra	fully and accurate nsport by highwa	ly described a y according to	bove by proper st p applicable inter	nipping name and are national 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 wa	aste generated	I to the degree I h	ave determined to be
	economically practicable and that I have select future threat to human health and the environm	ed the practicable method of treatment, storage ent; OR, if I am a small quantity generator, I ha	e, or disposal curre ve made a good fa	ntly available i aith effort to mi	to me which minin inimize my waste (nizes the present and generation and selec
 -	Printed/Typed Name	Signature	<u> </u>	1		Month Day Yea
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10446 H 2529 UST # 0081515-	MAZZA Met 24 Aut 323 Tint (90	& SONS, INC al Recyclers o and Truck O Shafto Rd. on Falls, NJ 8) 922-9292	NO
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		12860 LB 6	Lt. Iron Copper #1 Copper #2
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·	0./v		Battery
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APPENDIX E

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SOIL ANALYTICAL DATA PACKAGE

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

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Client:	U.S.	Army		
	DPW,	SELFM-PW-	-EV	
	Bldg	. 173		
	Ft. N	Monmouth.	NJ	0770

Lab. ID #:1945.1-.6 Sample Rec'd: 09/26/95 Analysis Start: 09/26/95 Analysis Comp: 09/28/95

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

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NJDEPE	UST	Reg.	#:	00815	515-20
	Clos	ure	#:		
	DI	CAR	#:		
. ·	Locat	ion	#:	Bldg.	2529

Lab ID.	Descript	tion			%Solid	Result	MDL
1945.1	Site A	Bottom	@ 7'N.	OVA=ND	87 ~	555.	100
1945.2	Site E	B Bottom	@ 7'S.	OVA=ND	89	460.	100
1945.3	Site C	C East @7	7' S.W.	OVA=ND	92	320.	100
1945.4	Site D) West @7	7'S.₩.	OVA=ND	89	360.	100
1945.5	Site B	E Fuel L	ines	OVA=ND	92	497.	100
1945.6	Site F	F Duplica	ate	OVA=ND	90	653.	100
		· · · · · · · · · · · · · · · · · · ·					
M. B1.	Method I	Blank			100	ND	100

Notes: ND = Not Detected, MDL = Method Detection Limit * = Silica Gel Added, NA = Not Applicable

1948.6S= 92%,1948.6SD= 92%,RPD= 1.2%,1948.6Dup= 92% QC Limits: Recovery = 60% to 140% and RPD = 14.9% (2 Std. Dev.)

<u>774</u>

Brian K. McKee Laboratory Director

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

Client:U.S. Army DPW, SELFM-PW-EV Bldg. 173 Ft. Monmouth, NJ 07703 Lab. ID #: 1945.1-.6 Sample Rec'd: 09/26/95 Analysis Start: 09/26/95 Analysis Comp: 09/28/95

Analysis: Munsel

Lab ID#	Soil Color
1945.1	10YR 3/4 Dark Yellowish Brown
1945.2	10YR 3/4 Dark Yellowish Brown
1945.3	10YR 5/6 Yellowish Brown
1945.4	10YR 5/6 Yellowish Brown
1945.5	10YR 3/4 Dark Yellow Brown
1945.6	10YR 5/6 Yellowish Brown

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Brian K. McKee Laboratory Director

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roject #:	•	Sampler:	El la	Sal A	Date /	Time	⊀ · Par	alysi amete	s rs		Sta	rt:
ustomer:	USRI	'Site Name:	<u> </u>		27-20-05	Tog		17		777	Fin	ish:
	QUEEV	BLDG #	-,2529	7	<u> </u>	•	. /		4		// [_	
hone ChC_	C22-0986	- UST #	$-\varphi \varphi \gamma \gamma$	s/s - cq			- 29		/ /	////	Pres	ervation
ab Sample'		L Customer	Sample	Sample			RY h	BY		. ,	• • • • • • • • • • • • • • • • • • • •	Method
D Number	Date/Time	Location/IC	Number	Matrix	Dottles	/	<u>Yv</u> /	<u> </u>			Remarks	
1945.1	9-26-95 1230	SITE A-NE	OTTON @7	SOIL		X	KN	D	<u> </u>	·]		
, 2	9-2695 1232	-SITE B-S B	TON@7	· 1	<u> </u>	X	XN	0				•
: 3	9-7-6-1234	ISTEC-ES	W@7'		1	X	XW	· ·				• .
4	Q-76-C+1236	STED-11/5	SWQ7'			Ξ <u>Χ</u>	XN					
. 5	0 2 4 1725	CUTEE- FUE	LINES	-	<u> </u>		XN					
/	6 1 0 1 2 2	THE E- DU	DUCATE		1	$\neg \hat{\mathbf{v}}$	XM					
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RI-ENV COC	form 01	·	Page	0	F T	Paqu	es	Rev	. A	Date: 02	. Apr 93	

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<pre>> Sample Nam Data File '' Method</pre>	ie: 1945.2 : C:\DX\D4 : c:\dx\ma	TALUJ2795: ethodltph.u	21.D04 met	Date:	: 1 04,	/1995 15:	04:00	3
ACI Addres Analyst	s: 1 Syste : BKM	em: 1 Inje Co.	ect#: 4 lumn: IR =======			Detector	OTHE	ER
Calibration	Volume (Dilution Po	oints Rat	e Start	Stop (Area Reje	ect	
External	1	1	900 50H	z 0.00	0.30	300	000	
1 a ************ ************************	<**********	Component	Report:	Components	s Found	******	****	**** ****
Pk. Ret Num Time	Component Name	Co	ncentrati P	on Hei PM	ight	Area	Bl Code	%Delta
1 0.12	ТРНС		27.8	85 42	1922	284087	1	0.00
۱ ·		Totals	27.8	85 41	1922	284087		



File: 09279521.D04 Sample: 1945.2

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PHC Conformance/Non-conformance Summary Report

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

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 #1945

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Brian K. McKee Laboratory Manager

APPENDIX F

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SA TERMIN CARACTER AN

PHOTOGRAPHIC LOG UST No. 0081515-20

Building 2529 Chales Wood Area Fort Monmouth

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SMC Environmental Services Group Engineers, Managers, Scientists, & Planners Valley Forge, Pennsylvania