### **United States Army**

Fort Monmouth, New Jersey

# Underground Storage Tank Closure and Site Investigation Report

Building 484
Main Post-East Area

NJDEP UST Registration No. 90010-56 Dicar No. 95-10-13-1038-45

**April 1998** 

# UNDERGROUND STORAGE TANK CLOSURE AND SITE INVESTIGATION REPORT

#### **BUILDING 484**

MAIN POST-EAST AREA NJDEP UST REGISTRATION NO. 90010-56 DICAR NO. 95-10-13-1038-45

**APRIL 1998** 

#### 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

### **TABLE OF CONTENTS**

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

#### **TABLE OF CONTENTS (CONTINUED)**

#### **TABLES**

 Table 1
 Summary of Post-Excavation Sampling Activities

 Table 2
 Post-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 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**

On October 13, 1995, a steel underground storage tank (UST) was closed by removal in accordance with New Jersey Department of Environmental Protection (NJDEP) Closure Approval Letter dated September 25, 1995 at the Main Post-East area of the U.S. Army Fort Monmouth, Fort Monmouth, New Jersey. The UST, NJDEP Registration No. 90010-56 (Fort Monmouth ID No. 484), was located east of Building 484. UST No. 90010-56 was a 1,000 gallon No. 2 fuel oil UST.

#### 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*. The UST had two (2) holes on opposite ends at the mid-tank level and no visible fuel lines. Soils surrounding the tank were screened visually and with air monitoring equipment for evidence of contamination. Soil at the location of the holes was dark in color and appeared to be contaminated. OVA readings taken during the assessment ranged from non-detect to 4 ppm. The NJDEP hotline was notified and the case was assigned Dicar No. 95-10-13-1038-45. Approximately 13 cubic yards of potentially petroleum contaminated soil were removed from the excavated area and transported to the Fort Monmouth petroleum contaminated soil holding area. Groundwater was encountered at 7.0 feet below ground surface and no sheen was observed. Soil samples, which were collected after the removal of the potentially contaminated soil, contained Total Petroleum Hydrocarbons (TPHC) concentrations ranging from 500 to 720 mg/kg.

#### Site Restoration

Following receipt of all post-excavation soil sampling results, the excavation was backfilled to grade with native backfill from the Building 600 area and 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.

No further action is proposed in regard to the closure and site assessment of UST No. 90010-56 at Building 484.

# 1.0 UNDERGROUND STORAGE TANK DECOMMISSIONING ACTIVITIES

#### 1.1 OVERVIEW

One underground storage tank (UST), New Jersey Department of Environmental Protection (NJDEP) Registration No. 90010-56, was closed at Building 484 at the Main Post-East area of U.S. Army Fort Monmouth, Fort Monmouth, New Jersey on October 13, 1995. Refer to the 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 approved by the NJDEP on September 25, 1995. The UST was a steel 1,000-gallon tank containing No. 2 fuel oil.

Decommissioning activities for UST No. 90010-56 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. 90010-56 proceeded under the approval of the NJDEP Bureau of Underground Storage Tanks (NJDEP-BUST). The NJDEP Closure Approval Letter and signed Site Assessment Summary form for UST No. 90010-56 are included in Appendices A and B, respectively.

After removal of the potentially contaminated soil, the site was assessed. Based on field screening of subsurface soils and reviewing analytical results of collected soil samples, the DPW has concluded that no significant historical discharges are associated with the UST.

This UST Closure and Site Investigation Report has been prepared by SMC Environmental Services Group, to assist the U.S. Army DPW in complying with the 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

Building 484 is located in the Main Post-East area of the Fort Monmouth Army Base. UST No. 90010-56 was located east of Building 484. No visible fuel lines were present. 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 484. 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 (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. More than 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 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 (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.

Shallow groundwater is locally influenced within the Main Post 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 Main Post 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. This is consistent with lithologies observed in borings installed within the Main Post area, which primarily consisted of fine-to-medium grained sands, with occasional lenses or laminations of gravel silt and/or clay.

Building 484 located approximately 200 feet south of Parkers Creek, the nearest water body. Based on the Main Post topography, the groundwater flow in the area of Building 484 is anticipated to be to the north.

#### 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 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

On October 13, 1995, surficial soil was removed to expose the UST. No piping was observed to be associated with this UST. The UST was purged to remove vapors prior to cutting and removal. 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 80 gallons of liquid from the UST 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-2134862).

After the UST was cleaned, it was removed from the excavated area. The UST was staged on polyethylene sheeting and examined for holes. Two (2) holes were observed by the Sub-Surface Evaluator on opposite ends at the mid-tank level. Soils surrounding the UST were screened visually and with an OVA for evidence of contamination. Soils were dark in color and appeared to be contaminated. OVA readings taken during the assessment ranged from non-detect to 4 ppm. Approximately 13 cubic yards of potentially petroleum contaminated soil were removed from the excavated area and transported to the Fort Monmouth petroleum contaminated soil holding area. Groundwater was encountered at 7 feet below ground surface and no sheen was observed. See Figure 3 for a cross-sectional view of the excavated area.

#### 1.5 UNDERGROUND STORAGE TANK TRANSPORTATION AND DISPOSAL

The steel tank was transported in compliance with all applicable regulations and laws to Mazza & Sons, Inc., Recycling Division. Refer to Appendix D for the 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
- Contact person
- NJDEP UST Facility ID number
- Former contents
- Destination site
- Date

#### 1.6 MANAGEMENT OF EXCAVATED SOILS

Based on OVA air monitoring and TPHC analysis results from the post-excavation soil samples, approximately 13 cubic yards of potentially petroleum contaminated soil were removed from the excavated area and transported to the Fort Monmouth petroleum contaminated soil holding area. After removal of these soils, approximately 18 cubic yards of native backfill from the Building 600 area were brought and compacted to grade.

#### 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* (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 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: Brian K. McKee (currently, Daniel K. Wright)

Phone Number: (908) 532-4359

NJDEP Company Certification No.: 13461

• Hazardous Waste Hauler: Lionetti Oil Recovery Co. Inc

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. OVA readings taken during the assessment ranged from non-detect to 4 ppm. Approximately 13 cubic yards of potentially petroleum contaminated soil were removed from the excavated area and transported to the Fort Monmouth petroleum contaminated soil holding area. Soils were removed from the excavation until no evidence of contamination remained. Groundwater was encountered at 7 feet below ground surface and no sheen was observed.

#### 2.3 SOIL SAMPLING

On October 13, 1995, following the removal of the UST and potentially contaminated soils, post-excavation soil samples A, B, C, D, E, F (DUP C), and G were collected from a total of six locations of the UST excavation. Excavation floor samples A and B were collected at a depth of 7.0 feet bgs. Sidewall samples C, D, E, and F (DUP C) were collected at a depth of 6.0 feet bgs and biased towards the highest OVA readings. Sidewall sample G was collected at a depth of 7.0 feet bgs. Samples A, D, and G, had OVA readings of 4, 1, and 3 ppm, respectively. All other samples had OVA readings of non-detect. All samples were analyzed for 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

To evaluate soil conditions following removal of the UST, post-excavation soil samples were collected on October 13, 1995 from a total of six locations. 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 October 13, 1995, from the UST excavation contained concentrations of TPHC below the NJDEP soil cleanup criteria. Samples contained levels of TPHC ranging in concentration from 500 to 720 mg/kg.

#### 3.2 CONCLUSIONS AND RECOMMENDATIONS

The analytical results for all post-excavation soil samples collected from the UST closure excavation at Building 484 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. 90010-56 at Building 484.

TABLES

TABLE 1
SUMMARY OF POST-EXCAVATION SAMPLING ACTIVITIES
BUILDING 484, MAIN POST-EAST AREA
FORT MONMOUTH, NEW JERSEY

Page 1 of 1

Sample ID	Date of Collection	Date Analysis Started	Matrix	Sample Type	Analytical Parameters*	NJDEP Method
Α	10/13/95	10/16/95	Soil	Post-Excavation	ТРНС	418.1
В	10/13/95	10/16/95	Soil	Post-Excavation	TPHC	418.1
С	10/13/95	10/16/95	Soil	Post-Excavation	TPHC	418.1
D	10/13/95	10/16/95	Soil	Post-Excavation	TPHC	418.1
E	10/13/95	10/16/95	Soil	Post-Excavation	TPHC	418.1
F (DUP C)	10/13/95	10/16/95	Soil	Post-Excavation	TPHC	418.1
G	10/13/95	10/16/95	Soil	Post-Excavation	TPHC	418.1

Note:

\* TPHC Total Petroleum Hydrocarbons

TABLE 2 POST-EXCAVATION SOIL SAMPLING RESULTS **BUILDING 484, MAIN POST-EAST AREA** FORT MONMOUTH, NEW JERSEY

Page 1 of 1

Sample ID/ Depth	Sample Laboratory ID	Sample Date	Analysis Date	Analytical Parameters	Method Detection Limit (mg/kg)	Compound of Concern	Results (mg/kg) *	NJDEP Soil Cleanup Criteria ** (mg/kg)	Exceeds Cleanup Criteria
A/7.0'	1956.1	10/13/96	10/16/96	Total Solid			83 %		
				TPHC	100	yes	647	10,000	No
B/7.0'	1956.2	10/13/96	10/16/96	Total Solid			83 %		
				TPHC	100	yes	661	10,000	No
C/6.0'	1956.3	10/13/96	10/16/96	Total Solid			84 %		
				TPHC	100	yes	512	10,000	No
D/6.0'	1956.4	10/13/96	10/16/96	Total Solid			79 %		
				TPHC	100	yes	640	10,000	No
E/6.0'	1956.5	10/13/96	10/16/96	<b>Total Solid</b>			85 %		, <b></b>
				TPHC	100	yes	720	10,000	No
F (DUP C)/6.0'	1956.6	10/13/96	10/16/96	<b>Total Solid</b>			84 %		
, ,				TPHC	100	yes	500	10,000	No
G/7.0'	1956.7	10/13/96	10/16/96	<b>Total Solid</b>			82 %		
				TPHC	100	yes	587	10,000	No

#### Note:

Total Solid results are expressed as a percentage.

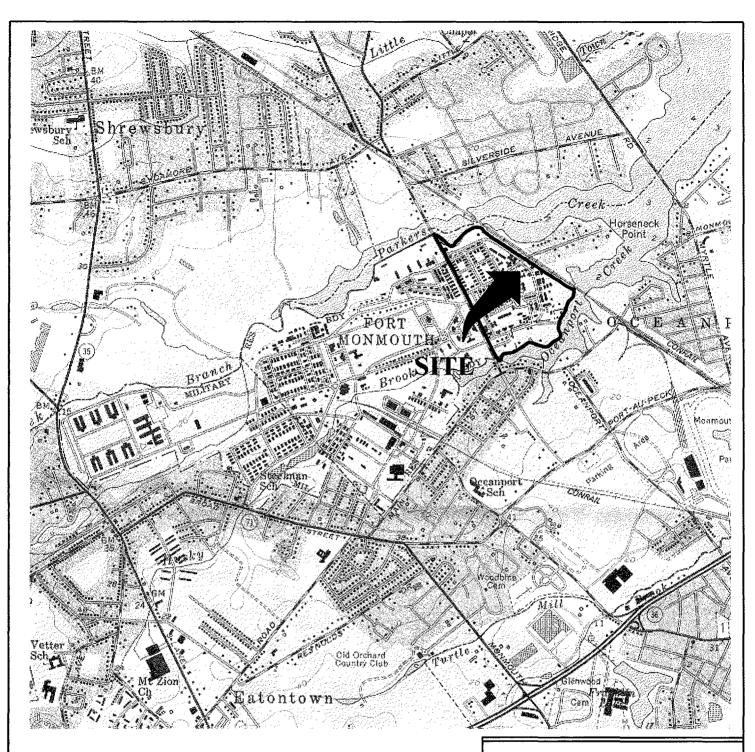
NJDEP Residential Direct Contact soil cleanup criteria for total organics \*\*

Not detected above stated method detection limit ND

TPHC Total Petroleum Hydrocarbons

Not Applicable

FIGURES





#### LONG BRANCH, NJ

40073-C8-TF-024

1954

PHOTOREVISED 1981 DMA 6164 I SE -SERIES V822



Quadrangle Location

Mapped, edited and published by the Geological Survey

#### FIGURE 1

#### SITE LOCATION MAP

Building 484
Main Post-East
Fort Monmouth Army Base
Monmouth County, NJ



#### **SMC Environmental Services Group**

Engineers, Managers, Scientists, & Planners Valley Forge, Pennsylvania

Scale:

1"=2,000"

Date: **DEC 1997** 

MONMOUTH COUNTY, NJ



#### SMC ENVIRONMENTAL SERVICES GROUP

Engineers, Managers, Scientists & Planners VALLEY FORGE, PA.

SCALE: 1"=100'

DATE: MARCH 1998

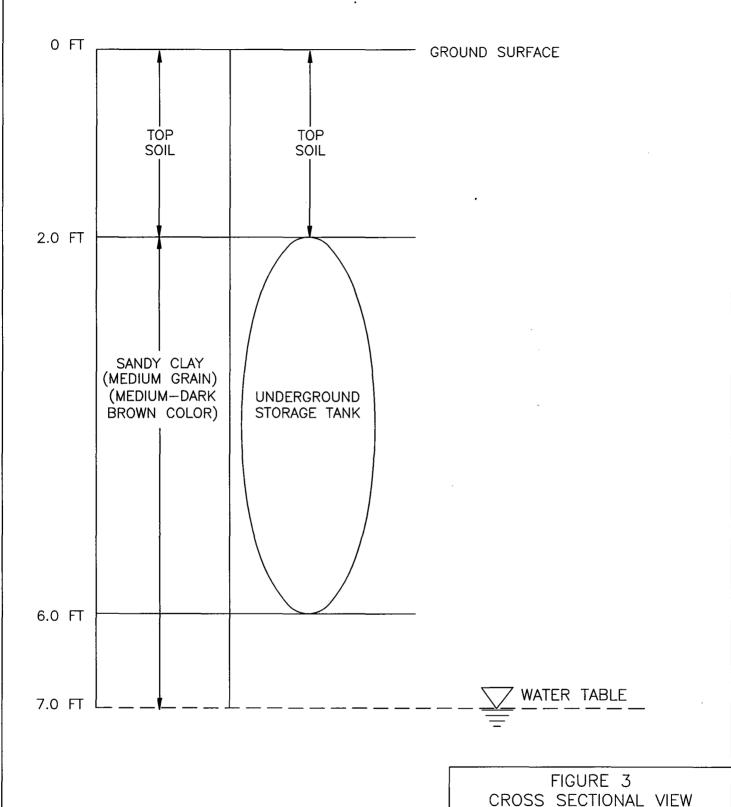


FIGURE 3
CROSS SECTIONAL VIEW
BUILDING 484
FORT MONMOUTH ARMY BASE
MONMOUTH COUNTY, NJ

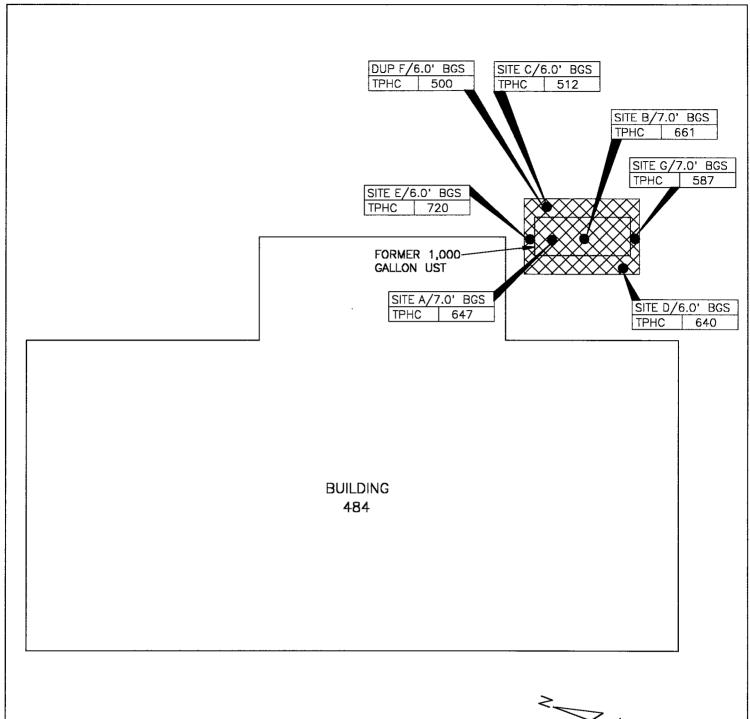


SMC ENVIRONMENTAL SERVICES GROUP

Engineers, Managers, Scientists & Planners VALLEY FORGE, PA.

SCALE: NTS

DATE: MAR. 1998





#### LEGEND

SOIL SAMPLE LOCATION (OCTOBER 13, 1995)



LIMIT OF EXCAVATION XXX (OCTOBER 13, 1995)

NOTES: 1. ALL RESULTS IN MG/KG.

2. SEE TABLE 2 FOR NJDEP SOIL CLEANUP CRITERIA

3. BGS = BELOW GROUND SURFACE

FIGURE 4 SOIL SAMPLING LOCATION MAP BUILDING 484 FORT MONMOUTH ARMY BASE MONMOUTH COUNTY, NJ



#### SMC ENVIRONMENTAL SERVICES GROUP

Engineers, Managers, Scientists & Planners VALLEY FORGE, PA.

SCALE: 1"=10'

DATE: MARCH 1998

# APPENDIX A NJDEP-BUST CLOSURE APPROVAL LETTER



### State of New Jersey

Christine Todd Whitman Governor

Department of Environmental Protection

Robert C. Shinn, Jr. Commissioner

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

SEP 2 5 1995

Dear Mr. Ott:

Re:

UST Closure Approval Applications

Fort Monmouth Army Base

Tinton Falls, Monmouth County

The NJDEP has reviewed the Underground Storage Tank Closure Applications listed below and we have determined that the scheduled closures for these Number 2 fuel oil tanks are consistent with NJDEP requirements. This letter shall serve as the closure approval for the following USTs:

AREA	REGISTRATION NO SIZE	BLDG NO.	UST NO.	TANK SAMP	LINE SAMP	REMOVAL DATE	REPORT DATE
CW - West	0081515 - 1000	2504	15	4/1	1	9/18/95	1/19/96
CW - East	0090010 - 1000	484	56	4/1	0	10/23/95	2/23/96
CW - West	0081533 - 1000	550	79	4/1	0	10/24/95	2/26/96
CW - West	0081533 - 550	826	134	4/1	2	10/25/95	2/27/96
CW - West	0081533 - 1000	902	144	4/1	0	10/27/95	2/29/96
CW - East	0090010 - 1000	116	9	4/1	1	10/2/95	2/5/96
CW - East	0090010 - 2000	116	10	4/1	0	10/3/95	2/5/96
CW - East	0090010 - 1000	173	19	4/1	3	10/4/95	2/6/96
CW - East	0090010 - 1000	276	23	4/1	2	10/10/95	2/12/96
CW - East	0090010 - 1000	277	24	4/1	0	10/11/95	2/13/96
CW - East	0090010 - 1080	420	36	4/1	2	10/12/95	2/13/96
CW - East	0090010 - 1080	428	42	4/1	3	10/16/95	2/20/96
CW - East	0090010 - 1080	429	43	4/1	3	10/17/95	2/20/96
CW - East	0090010 - 1080	439	48	4/1	2	10/18/95	2/20/96

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. Gene Lesinski, FTMMTH

RPCE\BFCM\FTMMTH31.IRC



## State of New Jersey Department of Environmental Protection and Energy

Division of Responsible Party Site Remediation CN 028

Trenton. NJ 08625-0029

ATTN: UST Program

For State	Use Only
Date Rec'd.	
Routing	
JST NO.	

· · ·	(609) 984-3156
	STANDARD REPORTING FORM reporting activities at an UST facility:
General Facility Inform  Closure (Abandonmer  Temporary Closure  Change in Service  Check ONLY One	
*** NOTE *** A	than one tank can be listed per activity)  LL NEW tank installations at existing registered at a Registration Questionnaire for the new tanks.
Answer questions 1 through 5 and others as	applicable.
1. Company name and address (as it	U.S. ARMY - FORT MONMOUTH
appears on registration questionnaire):	DPW - BUILDING 173
	FORT MONMOUTH NIT 07703 ATTN: EUGENE W. LESINSKI
2. Facility name and location (if different from above):	
3. Contact person for this activity:	GENE LESINSKI Telephone Number: (908) 532-0989
	Telephone Number: ( 908)
4. The identification number of the affected BUDG 489	tank as it appears in Question Number 12 on the Registration Questionnaire $\frac{S_{\theta}}{}$
5. Registration Number (If known):	UST- 6696010
6. For GENERAL FACILITY INFORMATION of	hanges (address, telephone, contact person, etc. – supply NEW information only):
b. Facility location:	
d. Block: Lot: e. Contact person (facility operator):	

<ul> <li>For CLOSURE</li> <li>a.</li></ul>	•						
		/	/	Case No	) <b>:</b>		
	ecessary implem						
abaadaaaa		14 AD 0 4 (d)	•	. •			
h M Remova	Date: 10	11319	2	Case No. 9	15-10-	13-1638	-45 OPER
	ecessary implem						
WITECUT INC. I	·	MIRELON SCHOOL	ole to col	Jies).			
For CHANGES	IN HAZARDOUS	S SUBSTANCES	s Store	ED (check all th	at apply):		
a. 🗆 Tempora	ry Closure (12 m	mumixsm ritnor	time - se	e N.J.A.C. 7:14	4B-9.1(b)). i	Remove all h	azardous
substances;	leave tank in pla	aœ.					
b. D Change	in service from a	regulated subs	tance to	a non-regulated	i substance	. Tank must t	oe cleaned
and site ass	essment perform	red per NJ.A.C.	7:14B-9	.1(e).			
c. D Change	s in service from	one requiated h	azardou	s substance to a	another rec	ulated hazart	fous substance.
_	o Oi	_			_		
	o Ol						
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	•	(Attach addition:	ai sneets	if more space	is needed)		
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# APPENDIX B SITE ASSESSMENT SUMMARY

### 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

Scott A. Weiner Commissioner

### 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:

- 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.

Duilding No. 494 LIST No. 00040 FG	Date of Submission:	
Building No. 484 UST No. 90010-56		0192477-1
1. FACILITY NAME AND ADDRESS:		Facility Registration #
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	ent from above.	
Telephone No		

II.	DISCHARGE REPORTING REQUIREMENTS
	A. Was contamination found? X Yes No If Yes, Case No. 95-10-13-1038-56 (Note: All discharges must be reported to the Environmental Action Hotline (609) 292-7172)
	B. The substance(s) discharged was (were) No. 2 Fuel Oil
	C. Have any vapor hazards been mitigated?YesNoX N/A
III.	DECOMMISSIONING OF TANK SYSTEMS Closure approval No. Sept. 25, 1995 letter
	The site assessment requirements associated with <u>tank decommissioning</u> are explained in the Technica Guidance Document, Interim Closure Requirements for UST's, Section V. AD. <u>Attach completed documentation of the methods used and the results obtained for each of the steps of tank decommissioning used. Please include a <u>site</u> map which shows the locations of all samples and borings, the location of a 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 legible annotated.</u>
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:
	<ul> <li>a. North arrow and scale</li> <li>b. The locations of the ground water monitoring wells</li> <li>c. Location and depth of each soil sample and boring</li> <li>d. All major surface and subsurface structures and utilities</li> <li>e. Approximate property boundaries</li> <li>f. All existing or closed underground storage tank systems, including appurtenant piping</li> <li>g. A cross-sectional view indicating depth of tank, stratigraphy and location of water table</li> <li>h. Locations of surface water bodies</li> </ul>
	C. Soil samples and borings (check appropriate answer)
	Were soil samples taken from the excavation as prescribed?XYes No N/A
	2. Were soil borings taken at the tank system closure site as prescribed?Yes NoX_ N/A
	3. Attach the analytical results in tabular form and include the following information about each sample
	<ul> <li>a. Customer sample number (keyed to the site map)</li> <li>b. The depth of the soil sample</li> <li>c. Soil boring logs</li> <li>d. Method detection limit of the method used</li> <li>e. QA/QC Information as required</li> </ul>

D.	Ground W	ater Monitoring
1.	Number of	ground water monitoring wells installed
2.		analytical results of the ground water samples in tabular form. Include the following information for each meach 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 QA/QC Information as required
	g.	·
V. S	OIL CONTA	AMINATION
	A.	Was soil contamination found? X Yes No If "Yes", please answer Question B-E If "No", please answer Question B
	В.	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. 720 ppm TPHC  4. N/A ppb N/A (for non-petroleum substance)
		4. <u>N/A</u> ppb <u>N/A</u> (for non-petroleum substance)
	C.	Remediation of free product contaminated soils
	to 2. Fi	If free product contaminated soil on the property boundaries and above the water table are believed have been removed from the subsurfaceX Yes No ree product contaminated soils are suspected to exist below the water table YesX No ree product contaminated soils are suspected to exist off the property boundaries YesX No
	D. Was th	ne vertical and horizontal extent of contamination determined? X Yes No N/A
	E. Does	soil contamination intersect ground water?Yes _XNo N/A
VI. (	SROUND W	ATER CONTAMINATION
	If "Yes"	round water contamination found?YesXNo ", please answer Questions B-G. please answer only Question B.
		ghest ground water contamination at any one sampling location and at any one sampling event to date en determined to be: N/A
	1.	ppb total BTEXppb total non-targeted VOC
	2	ppb total B/Nppb total non-targeted B/N
	3	ppb total MTBEppb total TBA
	4	ppb(for non-petroleum substance)
		atest thickness of separate phase product found No N/A
	•	

C.	Res	sults (s) of well search		
		A well search (including a review of manual well records) in wells do exist within the distances specified in the Scope of		
	2.	The number of these wells identified is	<del></del>	
D.	Pro	roximity of wells and contaminant plume		
	1.	The shallowest depth of any well noted in the well search well vertical potential path(s) of the contaminant plume(s) is given for the effects of pumping, subsurface structures, etc well is feet from the source and its screening begins	feet below go. on the direction(s	grade (consideration has been ) of contaminant migration). This
	2.	. The shallowest depth to the top of the well screen for any vin D1 above) is feet below grade. This well is lo		
	3.	. The closest horizontal distance of a private, commercial, c determined in D1) is feet from the source. This depth of feet.		
E.	Α	plan for separate phase product recovery has been include	dYes _	No N/A
F.	Α	ground water contour map has been submitted which includeYes No N/A	les the ground wate	er elevations for each well.
G.	De	elineation of contamination		
	1.	. The ground water contaminants have been delineated to N	ICLs or lower value	es at the property boundaries.
		The plume is suspected to continue off the properly at conYes No	centrations greater	than MCLs.
	3.	Off property access (circle one): is being sought has be	een approved ha	as been denied
VII.		SITE ASSESSMENT CERTIFICATION [preparer of site &9.5(a)3]	assessment plan -	N.J.A.C. 7:14B-8.3(b)
		The person signing this certification as the "Qualified Grou N.J.A.C.7:14B-1.6) responsible for the design and implement in N.J.A.C. 7:14B-8.3(a) & 9.2(b)2, must supply the name on number.	entation of the site a	assessment plan as specified
		"I certify under penalty of law that the information pro- complete and was obtained by procedures in complia that there are significant penalties for submitting false including fines and/or imprisonment."	nce with N.J.A.C.	7:14B-8 and 9. I am aware
		NAME (Print or Type) <u>Eugene Lesinski</u> SIGNATURE <u>SEE ATTACHED SUB-SURFACE EVALUAT</u> COMPANY NAME <u>U.S. Army Fort Monmouth</u> (Preparer of Site Assessment Plan)	OR LOG	DATE
		CERTIFYING ORGANIZATION NJDEP	CERTIFYING NUMBER	0014537

VIII. <u>TANK DECOMMISSIONING CERTIFICATION</u> [person performing tank decommissioning portion of closure plan - N.J.A.C. 7:14B-9.5(a)4]

N.J.A.C. 7:14B-9	enalty of law that tank decommissioning activities were performed in compliance with .2(b)3. I am aware that there are significant penalties for submitting false, inaccurate, or nation, including fines and/or imprisonment."
NAME (Print or Ty	De) SAME AS SITE ASSESSMENT SIGNATURE
COMPANY NAME	(Performer of Tank Decommissioning)
IX. <u>CERTIFICA</u>	TIONS BY THE RESPONSIBLE PARTY(IES) OF THE FACILITIES
	ng certification shall be signed by the highest ranking individual with overall responsibility for tha A.C. 7:14B-2.3(c)1I].
complete	under penalty of law that the information provided in this document is true, accurate, and a law aware that there are significant penalties for submitting false, inaccurate, or te information, including fines and/or imprisonment."
NAME (Print or Ty	pe) SIGNATURE
COMPÁNY NAME	U.S. 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)2l]
<ol> <li>For a par</li> <li>For a mu elected o</li> <li>In cases required in</li> </ol>	poration, by a principal executive officer of at least the level of vice president.  In properties of the proprietorship, by a general partner or the proprietor, respectively; or incipality, State, Federal or other public agency by either the principal executive officer or ranking ficial.  In all other the highest ranking corporate partnership, governmental officer or official at the facility as in A above is the same person as the official required to certify in B, only the certification in A need le. In all other cases, the certifications of A and B shall be made.
in this application responsible for complete. I am	nalty of law that I have personally examined and am familiar with the information submitted and all attached documents, and that based on my inquiry of those individuals immediately obtaining the information, I believe that the submitted information is true, accurate, and aware that there are significant penalties for submitting false, inaccurate, or incompleted ding fines and/or imprisonment."
NAME (Print or Ty	pe)SIGNATURE
COMPANY NAME	DATE

# DAILY UST SUBSURFACE REMOVAL LOG

(	BLDG.#: 489 REG.#: 0090010- Se CLOSURE#: DEP LTR	? 9-25-8					
`.	DATE: 10-13-95 TOA: 800 TOD: 1300	•					
	GOV. SSE: LESINSKI NJDEP CERT. #: 00/4537						
	REMOVAL CONTRACTOR; SAI Inc.	•					
	CLOSURE SUPERVISOR: WHAT SHOW NJDEP CERT.#:	<u>.</u>					
	WEATHER: SUNDY - 781-	•					
	ACTIVITY						
[	THE SUPERVISOR (CLOSURE CERT.) WAS ON-SITE DURING ALL CLOSURE RELATED ACTIVITIES						
	THE SSE WAS ON-SITE DURING UST REMOVAL AND SITE SCREENING AND SAMPLING ACTIVITIES	4					
	ALL ON-SITE PERSONNEL HAD TRAINING IAW ALL SAFETY REQUIREMENTS (E.G. 29CFR)	Y					
	A CONFINED ENTRY PERMIT WAS COMPLETED AND POSTED ON-SITE BY THE CONTRACTOR	MA					
	THE UST WAS PLACED ONTO PLASTIC, SCRAPED OFF, INSPECTED FOR HOLES AND PHOTOGRAPHED	<b>Y</b>					
	A DISCHARGE WAS REPORTED TO THE NJDEP (609-292-7172), CASE# 95-10-13-1038-45	4					
	PHOTOS HAVE UST#, BLDG. #, DATE, TIME, NAME OF SSE AND DESCR. WRITTEN ON BACK	4					
	GROUNDWATER WAS ENCOUNTERED AT FEET BG, A SHEEN (WAS/WAS NOT) OBSERVED ON GW	4					
⊷.	IF OVA/Hnu WAS USED: WAS IT CAL. AND FOUND TO BE OPERATIONAL (cal. data on COC)	Ý					
Ţ.	IF SAMPLES WERE TAKEN: COC, SCALED SITE MAP (VERT. SOIL HORIZONS AND PLOT PLAN)	<u> </u>					
	ALL SAMPLE COLLECTION ACTIVITIES WERE AS DESCRIBED IN THE NJDEP FSPM, 1992	Ý					
	ALL SAMPLING WAS BIASED TOWARD HIGHEST OVA/FID RECORDED SITES IAW 7:26E-3.6 et seq.	Ý					
	ALL PETROL. CONT. SOILS WERE SECURED FROM THE WEATHER BY CLOSE OF BUSINESS TODAY	Y					
	THE SSE AUTHORIZED BACKFILLING THE EXCAVATION (STONE TO 1" ABOVE GROUNDWATER)	Y SIMPLE					
	ADDITIONAL NOTES WERE TAKEN AND ARE RECORDED ON THE BACK OF THIS FORM	N is					
	THE FOLLOWING DOCUMENTS WERE ADDED TO THE PROJECT FOLDER TODAY: (CIRCLE EACH)	/					
	SCRAP TICKET, CSE PERMIT, ACCIDENT REPORT, HAZ. WASTE MANIFEST, DAILY UST CLOSURE LOG, SCALED SITE MAP (SAMPLING), SRF-CLOSURE, CHAIN OF CUSTODY, SOIL ANALYTICAL RESULTS, CLEAN FILL TICKETS(IN YDS <sup>3</sup> ), PHOTOGRAPHS (UST, EXCAVATION, SAMPLING POINTS)						
τ ,	CHECK ALL BOXES, LEAV certify under penalty of law that tank decommissioning activities						
	formed in compliance with N.J.A.C. 7:14B-9.2(b)3 and 7:26 et seq I a						
•	t there are significant penalties for submitting false, inaccura						
	omplete information, including fines and/or imprisonment.						
3IG	NATURE: DATE:						
3\ma	Nust\removal\sitessle dos						

Ι

# APPENDIX C WASTE MANIFEST



# State of New Jersey Department of Environmental Protectior Hazardous Waste Regulation Program Manifest Section



CN 421, Trenton, NJ 08625-0421 Form Approved. OMB No. 2050-0039. Expires 9-30-96 Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.) 1. Generator's US EPA ID No. 2. Page 1 UNIFORM HAZARDOUS Information in the shaded areas is not required by Federal law. WASTE MANIFEST Generator's time and Mailing Address.
U.S. Hrmy Communications Electronics Command
Main Post, Clo James Shirn hio, Blog 173, SELFM-PW-EV A. State Manifest Document Number B. State Generator's IU-(Ger Generator's Phone (908 1532-6223 Fort Monmouth. NJ 07703 Jama Transporter 1 Company Name C. State Trans. ID-NJDEPE ionatti Oil Recovery Decal No. Transporter 2 Company Name D. Transporter's Phone (9oE. State Trans, ID-NJDEPE Designated Facility Name and Site Address Inc. / OBA Loro Patralaym 5005. Decal No. F. Transporter's Phone G. State Facility's ID NJTDO8HOHHIGEH H. Facility's Phone (903) Total Waste No. Type Wt/Vol Patrolaum Oil (Patrolaum O:1) Combustible Liquid UN 1270 PG111 Patroleum OII (Petroleum OII) XXX50 N E Χ Combustible Liquid UN 1270FG 111 BOUTHTXXX80 G d. Additional Descriptions for Materials Listed Above, K. Handling Codes for Wastes Listed Above uintar 50% 15. Special Handling Instructions, and Additional Information
Not Eff. Regulated. Regulated as Hazarches Waste in New Taccy 24 Hour Enlargency Response # 908-721-0900 Dolsil Test Kit Rose HS Llovo ppin 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/Tuped Name Month Day 17. Transporter 1 Acknowledgement of Receipt of Materials Month Day 79 UC 3 18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Month Day Signature 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 Month Day Printed/Typed Name Signature

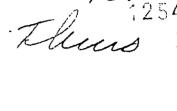


RD1 Box 5A Old Bridge, N.J. 08857 (908) 721-0900 Fax (908) 721-0231

STANDARD COLLECTION ORDER FORM

111918

and the second of the second o									
GENERATOR/LOCATION [	OFFICE USE	BILL TO (IF DIFFERENT FROM LOCATION)							
INFORMATION/ATTENTION LINE		NAME POLICY AND A STATE OF THE							
INFORMATIONATTENTION LINE	ACCOUNT APPROVAL CO	INFORMATIONATTENTION VIE							
DELIVERY ADDRESS			DELIVERY A	ADDRESS			3 <b>2</b> /4		
484 Main Past	STATE ZIP	CITY					ZIP		
HONOMOUTA PURCHASE	NJ 67	7703							
905 -31-61473 PURCHASE	ORDER NUMBER		PHONE NU	MBER		PL	RCHASE ORDER N	UMBER	
USA EPAID NO. (IF APPLICABLE) STATE ID NO.  NT 32/00/284 97		, PERINGE OF THE PROPERTY OF T		EST 🔭			(a) (B) ((C) (a) (		
N SZIUUZUSI	e:	-IIPPING I	NEORMA	NUM TION	BER		Contact Free Co	2134862	
This is to certify that the below named materials are properly class Department of Transportation.					roper condition	for transportation a	ccording to the a	opplicable regulations of the	
NO. TYPE QTY, UNIT	US DO	T Description	(Including P	roper Shippir	ng Name, Haza	rd Ciass and ID Nu	mber) SA	LES REPRESENTATIVE	
		SERVICE	SECTIO	N	·-·	٠.			
SALES	WASTE				NIT	POIOC	TAV	LINE	
CODE DESCRIPTION	CODE	QUAI	NTITY	OF MI	EASURE	PRICE	TAX	TOTAL	
40500 USED OIL REMOVAL 40501 OIL WATER DISPOSAL	1/777	0	<u></u>	0.1	10-0				
40502 SLUDGE DISPOSAL	X ( / / / / /			15 m	-(11-1)			•	
41000 NON HAZARDOUS DISPOSAL						,			
41001 RCRA WASTE DISPOSAL							- *		
41500 VAC TRUCK & OPERATOR	1/2	2.000	m 2	2000	<u> </u>			<u> </u>	
41501 DRUM DISPOSAL		· · · · · ·	•	<u> </u>					
41502 SEPARATOR CLEANING			<del></del>	ļ			<u>:</u>		
41503 QAQC ANALYTICAL TESTING 41504 TANK CLEANING	<del>                                     </del>		KAA	-70	7-			<del> </del>	
41505 CONFINED SPACE ENTRY	<del>                                     </del>	-/-	700	/ W	<u> </u>				
42000 MANIFEST PROCESSING FEE		· · · · · · · · · · · · · · · · · · ·	·. ·				<u> </u>		
42001 DEXSIL TEST KIT									
Delete Chi	arge 40	min					TOTAL		
			0.541						
CHARGE MY ACCOUNT FOR THIS TRANSACTION UNLESS OTHERWISE INDICATED IN THE	•	7	SMALL QUANTITY			PAYMENT RECEIVED SECTION			
PAYMENT SECTION.			GENERATOR CERTIFICATION		CAS	вн 🔲 📙	IOIA	L RECEIVED	
ARE SUBJECT TO AN INTEREST RATE OF THE LESSER OF		8%		1	CHECK NUMBER				
PER ANNUM) OR THE MAXIMUM RATE ALLOWED BY LAW OF ARE NOT PAID WITHIN 30 DAYS. IN THE EVENT OF DEFA	BE gen	I certify that this generator generates less than 100							
ENTITLED TO RECOVER COSTS OF COLLECTION, INC. ATTORNEY'S FEES.	<sup>)_E</sup>   220	kilograms (approximately 220 pounds or 30 paylons) payment MADE SECTION							
GENERATOR WARRANTS AND REPRESENTS THAT THE	ED   was	lons)of ha ste per mo	onth, as	PAY	MENT METHO		YMENT AMOUNT		
LORCO HEREUNDER HAVE NOT BEEN MIXED, COME BLENDED IN ANY QUANTITY WITH MATERIALS CONTAINI	ED and	ned at 40 C. does not ac	cumulate						
BIPHENYLS (PCB) OR ANY OTHER MATERIAL DEFINED A UNDER APPLICABLE LAWS, INCLUDING BUT NOT LIMITE		61 of s	e than 1,000 uch waste d		CASH LI CHECK LI				
GENERATOR AGREES TO INDEMNIFY AND HOLD LORCE DAMAGES, COSTS, ATTORNEY'S FEES, ETC. ARISING OU	HARMLESS FOR A	NY   mor	ıth.	ŀ	RECEIVED BY:				
RELATED TO A BREACH OF THE ABOVE WARRANTY BY	<b>'</b> ''		į						
Generator certifies that the waste is In accordance the N.J.A.C. 7:26-12.1 et seq, LORCO has the required permits to accept the above described waste.			GENERATORS SIGNATURE						
					CUSTOMER'S SIGNATURE				
permits to accept the above described waste.		LARG		In cocord	anaa with 40 C	ED 266 & 42/6	1 LOPCO has notified		
104 Fallan	1	QUANT GENERA	NTOR	In accordance with 40 CFR 266 § 43(5) LORCO has notified the US EPA of its location and used oil management activities.					
Print Name		ERTIFIC		1.4.11					
() 1 H//m	S	DEXSIL CDT Halbal Vaz que >				9055			
Signature	드   T	EST RES		/ IIII (Valle		11-	1000		
GENERATOR/CUSTOMER	Date		-100	U	Signature	- Lund	Vya	Date	
V		<u> </u>	_ PPM	LORCO REPRESENTATIVE					



LORCO PETROLEUM SERVICES

Box 5A
, N.J. 08857 • <b>Fax(908) 721-0231</b>
1 0 0
MBILL TO: Systems
ain/ost
0-14
MATTN:
JOB SCHEDULED FOR
CUSTOMER PO # TERMS
TYPE OF MATERIALS
de doil
THIS WORK HAS BEEN INSPECTED AND PERFORMED
TO THE CUSTOMER'S SATISFACTION.
La Follon
SIGNATURE
This order has been signed and confirmed by the customer that L.&L. Oil Service has left the grounds in good condition and is not responsible for any spills or soil contamination.

WHITE/OFFICE

YELLOW/DRIVER

PINK/CUSTOMER

Bldg 484 / 550

# APPENDIX D UST DISPOSAL CERTIFICATE

		MAZZA & SONS, INC.  Metal Recyclers Auto and Truck 3230 Shafto Rd. Tinton Falls, NJ (908) 922-9292	NO. <u>291</u> DATE <u>14 May 9</u>
BW 484	Customer's Nar	me F- SYSTEMS Thuch # 291	
Make of	\$		Weight Price
Autos		·	Cast Iron
			Steel 46.9
<u></u>			Copper #1
<del></del>		14400 LB	Copper #2
Tires		13060	Lt. Copper
Tank		1300	Brass
Price:		1340	Alum Clean
and the same of th		,	Lead
			Stainless
			Radiators
			Battery
<del></del>			·
*			TOTAL AMOUNT:
· · · · · · · · · · · · · · · · · · ·			TOTAL AMOUNT.
			<del></del>
		1 1	· · · · · · · · · · · · · · · · · · ·

# APPENDIX E SOIL ANALYTICAL DATA PACKAGE

## 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 #:1956.1-.7

Sample Rec'd: 10/13/95

Analysis Start: 10/16/95

Analysis Comp: 10/17/95

Analysis: 418.1 (TPH)

Matrix: Soil

Analyst: S. Hubbard Ext. Meth: 3540A

NJDEPE UST Reg.#: 0090010-56

Closure #:

DICAR #: 951013103845 Location #: Bldg. 484

Lab ID.	Description		%Solid	Result	MDL
1956.1	Site A Bottom @ 7' C	OVA= 4	83	647.	100
1956.2	Site B S. Bottom @ 7' C	DVA=ND	83	661.	100
1956.3	Site C E. Side @ 6' C	DVA=ND	84	512.	100
1956.4	Site D W. Side @ 6' C	DVA= 1	79	640.	100
1956.5	Site E N. Side @ 6' C	DVA=ND	8 <i>5</i>	720.	100
1956.6	Site F Duplicate (	DVA=ND	84	500.	100
1956.7	Site G S. Side @ 7' (	OVA= 3	82	587.	100
,					
			·		
M. Bl.	Method Blank		100	ND	100

Notes: ND = Not Detected, MDL = Method Detection Limit

\* = Silica Gel Added, NA = Not Applicable

1954.3S= 86%,1954.3SD= 85%,RPD= 2.2%,1954.3Dup= 98%

QC Limits: Recovery = 60% to 140% and RPD = 14.9% (2 Std. Dev.)

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 #: 1956.1-.7

Sample Rec'd: 10/13/95 Analysis Start: 10/16/95

Analysis Comp: 10/17/95

Analysis: Munsel

Lab ID#	Soil Color
1956.1	10YR 6/4 Light Yellowish Brown
1956.2	10YR 6/4 Light Yellowish Brown
1956,3	10YR 3/1 Very Dark Gray
1956.4	10YR 5/8 Yellowish Brown
1956.5	10YR 6/4 Light Yellowish Brown
1956.6	5Y 4/1 Dark Gray
1956.7	5Y 4/1 Dark Gray
-	

Brian K. McKee Laboratory Director

### SI RV-AIR, INC. AI E-SYSTEMS Co.

1CAR#95-10-13-1	038-45 P.O. #: PWS-	φ7	Chain	of Custody
roject #: OASR-2		Date / Time 10-13-95 0945	Analysis Parameters	Start:
S. LESINSKI BELFM-PW-EV	Site Name: BLDG # - 484 UST # - 6696610-	-56		Finish:
hone: 908-532-0 ab Sample	D/87 DICAR#95-10-13-103  Customer Sample Same Location/ID Number Ma	mple .# of trix Bottles		Preservation Method Remarks
1956, 1 10-134509		OIL I XX	4 4 5A	MALES 14PT L 4°
	147 SITEB- S BOTTON@7'	1 1 1 1 1 1	X NO	
	149 SITEC-E SW@7'	The state of the s	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	
	50 STED-W S/W@7' 52 STEE-N S/W@7'		7 100	
	ISYSITEF- DUP	1   x   y	X AD	
V.7 V 09	1585176G-5 SW@7' V	VVXX	X 3	(Ow
				ALIBRATED TO
			_	PPM CHY & BAINE
<del>   -   -</del>	· · · · · · · · · · · · · · · · · · ·			930 HRS ON
elinquished By (sig	nature) Date / Time Recei	ved By (signature)	Shipped By: 10-13-	
elinquished By (sig	nature) Date / Time Recei	ved for Lab by (gigne	las Date / Tim	Social #45211
ote: A drawing depi of custody.	cting sample location should	be attached or drawn	on the reverse side o	f this chain
RI-ENV COC form Ol	Page	ofPages	Rev. A Date: 02	Apr 93

Environmental Laboratory No Site MAP ATTACHED - Seperate Szimpling Spoons USED (EN)

Data File : C:\DX\DATA\10179511.D01
Method : c:\dx\method\tph.met

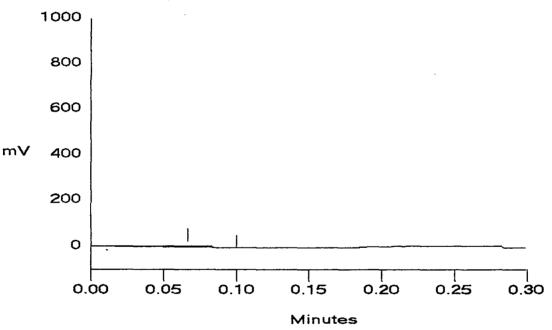
ACI Address: 1 System: 1 Inject#: 1 Detector:OTHER

Analyst : BKM Column: IR

Calibration	Volume	Dilution	Points	Rate	Start	Stop A	area Reject
External	1	1	900	50Hz	0.00	0.30	30000

Pk. Num	Component Name	Cor	centration ppM	Height	Bl. %Delta Code
	 	Totals	0.000	0	

#### File: 10179511.D01 Sample: BLANK



Date: 10/17/1995 13:23:31

Sample Name: 1956.1 484 A

Data File : C:\DX\DATA\10179501.D17 : c:\dx\method\tph.met

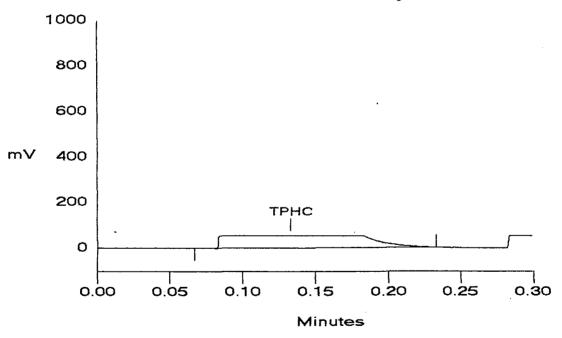
ACI Address: 1 System: 1 Inject#: 17 Detector: OTHER

Analyst : BKM Column: IR 

Calibration Volume Dilution Points Rate Start Stop Area Reject External 900 50Hz 0.00 0.30 1 1 30000

Pk. Num		Component Name	Col	ncentration ppM	Height		Bl. Code	%Delta
1	0.13	TPHC		34.984	52595	358984	1	0.00
			Totals	34 984	52595	358984		

File: 10179501.D17 Sample: 1956.1 484 A



, "我是我们们就是我们是我们是我们的,我们就是我们就是我们就是我们的,我们就是我们就是我们就是我们的,我们就是我们就是我们就是我们就是我们就是我们就是我们是我们

Sample Name: 1956.2 484 B Date: 10/17/1995 13:27:34

Data File : C:\DX\DATA\10179501.D18
Method : c:\dx\method\tph.met

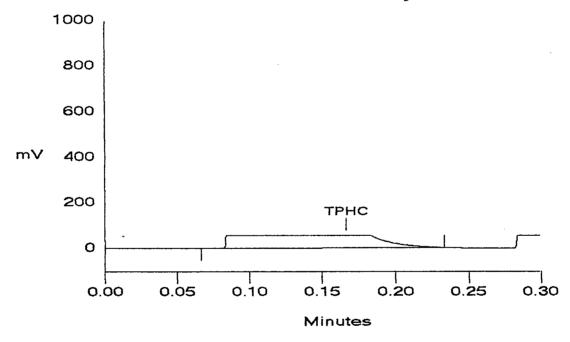
ACI Address: 1 System: 1 Inject#: 18 Detector:OTHER

Analyst : BKM Column: IR

Calibration	Volume	Dilution	Points	Rate	Start	Stop Area	Reject
External	1	1	900	50Hz	0.00	0.30	30000

Pk. Num		Component Name	Con	centration ppM	Height		Bl. Code	%Delta
1	0.17	TPHC		36.649	55097	381450	1	0.00
			Totals	36.649	55097	381450		

#### File: 10179501.D18 Sample: 1956.2 484 B



Sample Name: 1956.3 484 C Date: 10/17/1995 13:31:01 ;

Sample Name: 1956.3 484 C
Data File : C:\DX\DATA\10179501.D19

Method : c:\dx\method\tph.met

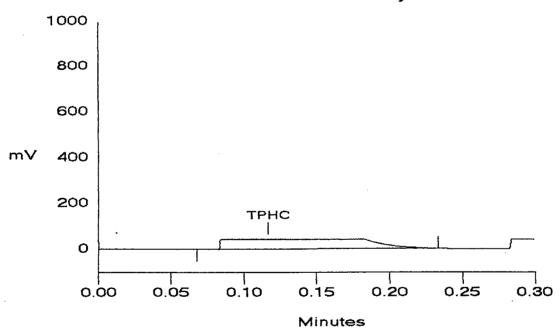
ACI Address: 1 System: 1 Inject#: 19 Detector:OTHER

Analyst : BKM Column: IR

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	900	50Hz	0.00	0.30	30000

Pk. Num	Ret Time	Component Name	С	oncentration ppM	Height		Bl. Code	%Delta
1	0.12	TPHC		28.712	43166	292983	1	0.00
			Totals	28.712	43166	292983		

File: 10179501.D19 Sample: 1956.3 484 C



Sample Name: 1956.4 484 D Date: 10/17/1995 13:34:00

Data File : C:\DX\DATA\10179501.D20
Method : c:\dx\method\tph.met

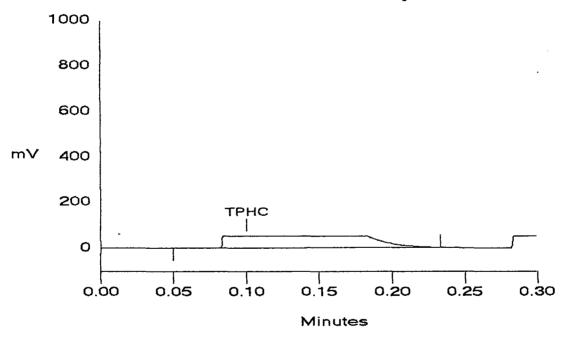
ACI Address: 1 System: 1 Inject#: 20 Detector:OTHER

Analyst : BKM Column: IR

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
						· <b></b>	
External	1	1	900	50Hz	0.00	0.30	30000

Pk. Num		Component Name	Cor	centration ppM	Height	Area (	Bl. %	:Delta
1	0.10	TPHC		34.495	51859	348684	1	0.00
			Totals	34.495	51859	348684		

#### File: 10179501.D20 Sample: 1956.4 484 D



Sample Name: 1956.5 484 E
Data File : C:\DX\DATA\10179501.D21

Method : c:\dx\method\tph.met

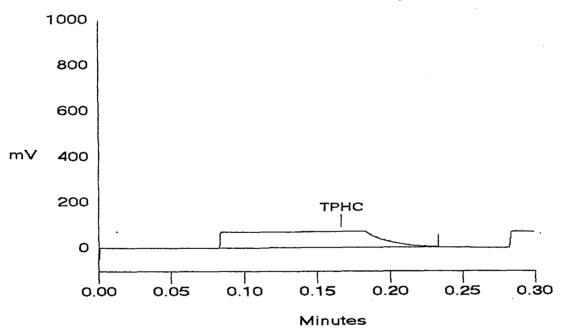
ACI Address: 1 System: 1 Inject#: 21 Detector:OTHER

Analyst : BKM Column: IR

Calibration Volume Dilution Doints Date Start Ston Area Poince

Pk. Num		Component Name	Cor	centration ppM	Height		Bl. Code	%Delta
1	0.17	TPHC		45.896	69000	470206	1	0.00
			Totals	45 . 896	69000	470206		

#### File: 10179501.D21 Sample: 1956.5 484 E



Date: 10/17/1995 13:39:35

Sample Name: 1956.6 484 F

Data File : C:\DX\DATA\10179501.D22
Method : c:\dx\method\tph.met

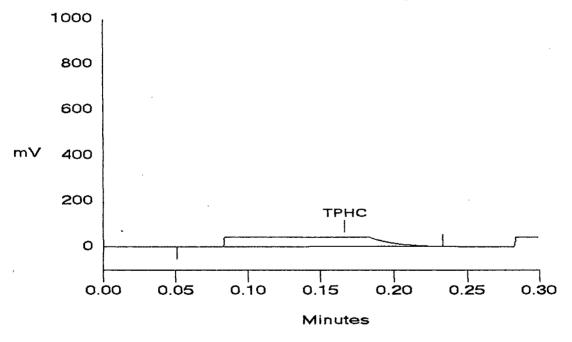
ACI Address: 1 System: 1 Inject#: 22 Detector:OTHER

Analyst : BKM Column: IR

Hugiyac . Duu colduu, ik

Pk. Num		Component Name	Cond	centration ppM	Height		Bl. Code	%Delta	
1	0.17	TPHC		27.915	41967	287686	1	0.00	
			Totals	27.915	41967	287686			

#### File: 10179501.D22 Sample: 1956.6 484 F



\_\_\_\_\_\_\_ Date: 10/17/1995 13:41:56

Sample Name: 1954.7 484 G

Data File : C:\DX\DATA\10179501.D23 : c:\dx\method\tph.met

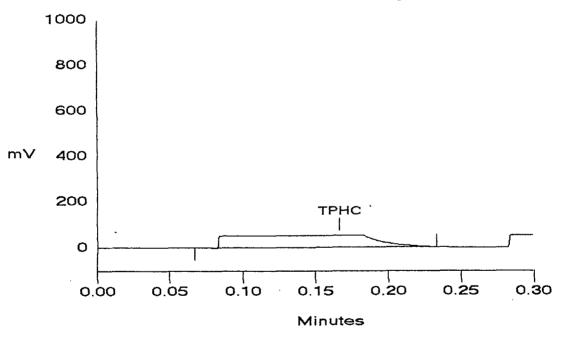
ACI Address: 1 System: 1 Inject#: 23 Detector: OTHER

: BKM Analyst Column: IR

Calibration Volume Dilution Points Rate Start Stop Area Reject 0.00 0.30 30000 External 1 900 50Hz 1

Pk. Num	Ret Time	Component Name	Con	centration ppM	Height	Area	Bl. Code	%Delta
1	0.17	TPHC		34.400	51717	356722	1	0.00
			Totals	34 - 400	51717	356722		

File: 10179501.D23 Sample: 1954.7 484 G



| Sample Name: CALCK. | Date: 10/17/1995 13:46:05 |

Sample Name: CALCK.
Data File : C:\DX\DATA\10179501.D24

Method : C:\DX\DATA\101/9501.D2

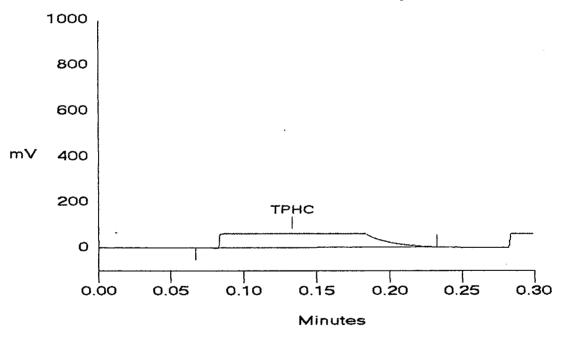
ACI Address: 1 System: 1 Inject#: 24 Detector:OTHER

Analyst : BKM Column: IR

Calibration Volume Dilution Points Rate Start Stop Area Reject
External 1 1 900 50Hz 0.00 0.30 30000

Pk. Num		Component Name	Cor	ncentration ppM	Height		Bl. Code	%Delta
1	0.13	TPHC		40.784	61313	419860	1	0.00
			Totals	40.784	61313	419860		

#### File: 10179501.D24 Sample: CALCK.



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	<u> </u>	
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		$\int$
4. Chromatograms submitted for standards, blanks, and samples if GC fingerprinting was conducted.		NA
5. Extraction holding time met. (If not met, list number of days exceeded for each sampl	e)	
6. Analysis holding time met. (If not met,list number of days exceeded for each sample	) —	<u> </u>
Comments: Xone		

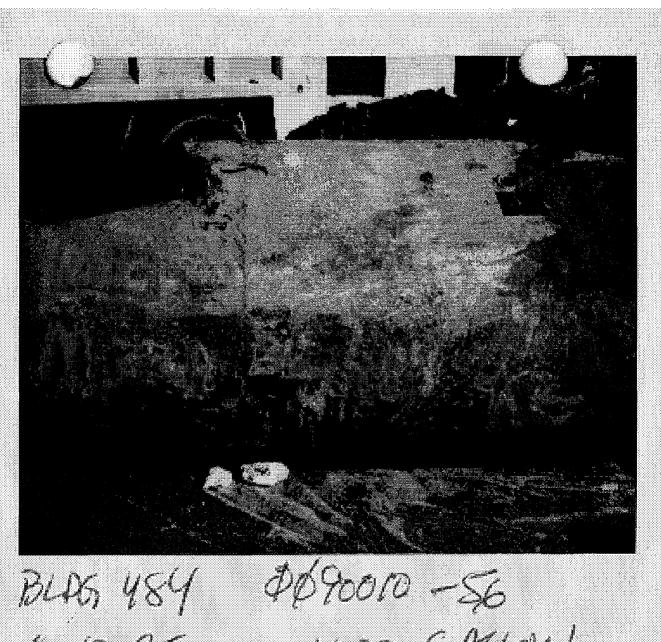
#### Laboratory Authentication Statement

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 #1956

Brian K. McKee Laboratory Manager

# APPENDIX F PHOTOGRAPHS



BURS 484 POSOD -56 10-13-95 1000 GALLON

**APRIL 1998** 

### PHOTOGRAPHIC LOG

UST No. 90010-56

**Building 484 Main Post-East Fort Monmouth** 



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