**United States Army** 

Fort Monmouth, New Jersey



# Underground Storage Tank Closure and Site Investigation Report

## Building 502 Main Post-West Area

NJDEP UST Registration No. 0081533-77

April 1998

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### UNDERGROUND STORAGE TANK CLOSURE AND SITE INVESTIGATION REPORT

### **BUILDING 502**

MAIN POST-WEST AREA NJDEP UST REGISTRATION NO. 0081533-77

**APRIL 1998** 

### PREPARED FOR:

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

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PROJECT NO. 2429-3080

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### **EXECUTIVE SUMMARY**

### UST Closure

On October 11, 1996, an asphalt-coated steel underground storage tank (UST) was closed by removal in accordance with New Jersey Department of Environmental Protection (NJDEP) closure procedures at the Main Post-West area of the U.S. Army Fort Monmouth, Fort Monmouth, New Jersey. The UST, NJDEP Registration No. 0081533-77 (Fort Monmouth ID No. 502), was located northwest of Building 502. UST No. 0081533-77 was a 3,000-gallon No. 2 fuel oil UST. The 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. Following removal, the UST was inspected for corrosion holes. No holes were noted in the UST. A slight petroleum odor emanated from two different locations and samples C and E (October 11, 1996) were obtained from those locations. OVA readings for samples C and E were 3 and 5 ppm, respectively. Groundwater was encountered at 6.5 feet below ground surface and no sheen was observed. Soil samples contained total petroleum hydrocarbons (TPHC) concentrations ranging from non-detect to 154 J mg/kg. J is an estimated value below the respective method detection limit.

#### Site Restoration

Following receipt of all post-excavation soil sampling results, the excavation was backfilled with crushed stone to groundwater and native backfill to grade 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 or associated piping.

No further action is proposed in regard to the closure and site assessment of UST No. 0081533-77 at Building 502.

### 1.0 UNDERGROUND STORAGE TANK DECOMMISSIONING ACTIVITIES

### 1.1 OVERVIEW

One underground storage tank (UST), New Jersey Department of Environmental Protection (NJDEP) Registration No. 0081533-77, was closed at Building 502 at the Main Post-West area of U.S. Army Fort Monmouth, Fort Monmouth, New Jersey on October 11, 1996. 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 approved by the NJDEP. The UST was an asphalt-coated steel 3,000-gallon tank containing No. 2 fuel oil.

Decommissioning activities for UST No. 0081533-77 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. 0081533-77 proceeded under the approval of the NJDEP Bureau of Underground Storage Tanks (NJDEP-BUST). The NJDEP Standard Reporting Form and signed Site Assessment Summary form for UST No. 0081533-77 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-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 502 is located in the Main Post-West area of the Fort Monmouth Army Base, as shown on Figure 1. UST No. 0081533-77 was located northwest of Building 502 and appurtenant steel piping ran approximately 13 feet south and then 34 feet east to Building 502. 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 502. 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 502 located approximately 250 feet north of Husky Brook, the nearest water body. Based on the Main Post topography, the groundwater flow in the area of Building 502 is anticipated to be to the southeast.

### 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

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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 180 gallons of liquid from the UST and its associated piping were removed from the UST. Refer to Appendix C for as copy of the waste manifest.

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. A slight petroleum odor was noticed in two locations. 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 6.5 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 asphalt-coated steel tank was transported in compliance with all applicable regulations and laws to Mazza and Sons, Inc., Metal Recyclers. Please refer to Appendix D for the UST disposal certificate and Appendix F for photographs of the tank.

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

- Site of origin
- Contact person
- NJDEP UST Facility ID number
- Name of transporter
- Destination site
- Date

### 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. The site was restored to its original conditions.

### 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 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

### 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, except for a slight petroleum odor in two areas.

### 2.3 SOIL SAMPLING

On October 10, 1996, after removing the piping, post-excavation soil samples A, B, C, D, E, F, and DUP E were collected from a total of six locations of the piping excavation. The piping samples were collected along the former piping length of the excavation, which was approximately 47 feet in length. The piping samples were collected at a depth of 2.5 feet bgs and were analyzed for TPHC and total solids.

On October 11, 1996, following the removal of the UST, post-excavation soil samples A, B, C, D, E, F, and DUP F were collected from a total of six locations of the UST excavation. Samples A, B, C, D, E, F, and DUP F were collected along the sides of the excavation floor at a depth of 5.5 feet bgs. Samples C and E had OVA readings of 3 and 5 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 and associated piping, post-excavation soil samples were collected on October 10 and 11, 1996 from a total of twelve locations. Six soil samples were collected from the piping excavation on October 10, 1996 and six soil samples were collected from the UST excavation on October 11, 1996. 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 10 and 11, 1996, from the UST excavation and from below piping associated with the UST contained concentrations of TPHC below the NJDEP soil cleanup criteria. Samples contained TPHC concentrations ranging from non-detect to 154 J mg/kg.

### 3.2 CONCLUSIONS AND RECOMMENDATIONS

The analytical results for all post-excavation soil samples collected from the UST closure excavation at Building 502 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. 0081533-77 at Building 502.

TABLES

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#### TABLE 1

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#### SUMMARY OF POST-EXCAVATION SAMPLING ACTIVITIES BUILDING 502, MAIN POST-WEST AREA FORT MONMOUTH, NEW JERSEY

Page 1 of 1

Sample ID	Date of Collection	Date Analysis Started	Matrix	Sample Type	Analytical Parameters*	Sampling Method
А	10/10/96	10/15/96	Soil	Post-Excavation	ТРНС	OQA-QAM-025
В	10/10/96	10/15/96	Soil	Post-Excavation	ТРНС	OQA-QAM-025
С	10/10/96	10/15/96	Soil	Post-Excavation	ТРНС	OQA-QAM-025
D	10/10/96	10/15/96	Soil	Post-Excavation	ТРНС	OQA-QAM-025
E	10/10/96	10/15/96	Soil	Post-Excavation	ТРНС	OQA-QAM-025
F	10/10/96	10/15/96	Soil	Post-Excavation	TPHC	OQA-QAM-025
DUP E	10/10/96	10/15/96	Soil	Post-Excavation	ТРНС	OQA-QAM-025
Α	10/11/96	10/15/96	Soil	Post-Excavation	ТРНС	OQA-QAM-025
В	10/11/96	10/15/96	Soil	Post-Excavation	ТРНС	OQA-QAM-025
С	10/11/96	10/15/96	Soil	Post-Excavation	TPHC	OQA-QAM-025
D	10/11/96	10/15/96	Soil	Post-Excavation	ТРНС	OQA-QAM-025
E	10/11/96	10/15/96	Soil	Post-Excavation	TPHC	OQA-QAM-025
F	10/11/96	10/15/96	Soil	Post-Excavation	ТРНС	OQA-QAM-025
DUP F	10/11/96	10/15/96	Soil	Post-Excavation	ТРНС	OQA-QAM-025

Note:

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TPHC Total Petroleum Hydrocarbons

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#### TABLE 2

#### POST-EXCAVATION SOIL SAMPLING RESULTS BUILDING 502, MAIN POST-WEST AREA FORT MONMOUTH, NEW JERSEY

Page 1 of 2

Sample ID/ Depth	Sample Laboratory ID	Sample Date	Analysis Date	Parameters	Method Detection Limit (mg/kg)	Compound of Concern	Results (mg/kg) *	NJDEP Soil Cleanup Criteria ** (mg/kg)	Exceeds Cleanup Criteria
A/2.5'	2176.1	10/10/96	10/15/96	Total Solid	••		88.8 %		
				TPHC	200	yes	ND	10,000	No
B/2.51	2176.2	10/10/96	10/15/96	Total Solid			87.8 %		
				ТРНС	200	yes	ND	10,000	No
C/2.5'	2176.3	10/10/96	10/15/96	Total Solid			82.4 %		
				TPHC	200	yes	ND	10,000	No
D/2.51	2176.4	10/10/96	10/15/96	Total Solid		-	92.5 %		
				ТРНС	200	yes	ND	10,000	No
E/2.5'	2176.5	10/10/96	10/15/96	Total Solid			89.4 %		
				ТРНС	200	yes	ND	10,000	No
F/2.5'	2176.6	10/10/96	10/15/96	Total Solid			87.6 %		
				ТРНС	200	yes	ND	10,000	No
DUP E/ 2.5'	2176.7	10/10/96	10/15/96	Total Solid			89.3 %		
				TPHC	200	yes	ND	10,000	No

Note:

\* Total Solid results are expressed as a percentage.

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

-- Not applicable

ND Not detected above stated method detection limit

TPHC Total Petroleum Hydrocarbons

#### TABLE 2

#### POST-EXCAVATION SOIL SAMPLING RESULTS BUILDING 502, MAIN POST-WEST AREA FORT MONMOUTH, NEW JERSEY

Page 2 of 2

Sample ID/ Depth	Sample Laboratory ID	Sample Date	Analysis Date	Parameters	Method Detection Limit (mg/kg)	Compound of Concern	Results (mg/kg) *	NJDEP Soil Cleanup Criteria ** (mg/kg)	Exceeds Cleanup Criteria
A/5.5'	2177.1	10/11/96	10/15/96	Total Solid	••		83.1 %		
				ТРНС	200	yes	ND	10,000	No
B/5.5*	2177.2	10/11/96	10/15/96	Total Solid			85.4 %		
				TPHC	200	yes	ND	10,000	No
C/5.5'	2177.3	10/11/96	10/15/96	Total Solid			86.4 %		
				ТРНС	200	yes	115 J	10,000	No
D/5.5'	2177.4	10/11/96	10/15/96	Total Solid			91.1 %		
				ТРНС	200	yes	154 J	10,000	No
E/5.5'	2177.5	10/11/96	10/15/96	Total Solid			84.6 %	••	
				ТРНС	200	yes	ND	10,000	No
F/5.5'	2177.6	10/11/96	10/15/96	Total Solid		••	80.2 %		
				TPHC	200	yes	ND	10,000	No
DUP F/ 5.5'	2177.7	10/11/96	10/15/96	Total Solid			80.0 %	, 	
				ТРНС	200	yes	ND	10,000	No

Note:

\* Total Solid results are expressed as a percentage.

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

-- Not applicable

ND Not detected above stated method detection limit

TPHC Total Petroleum Hydrocarbons

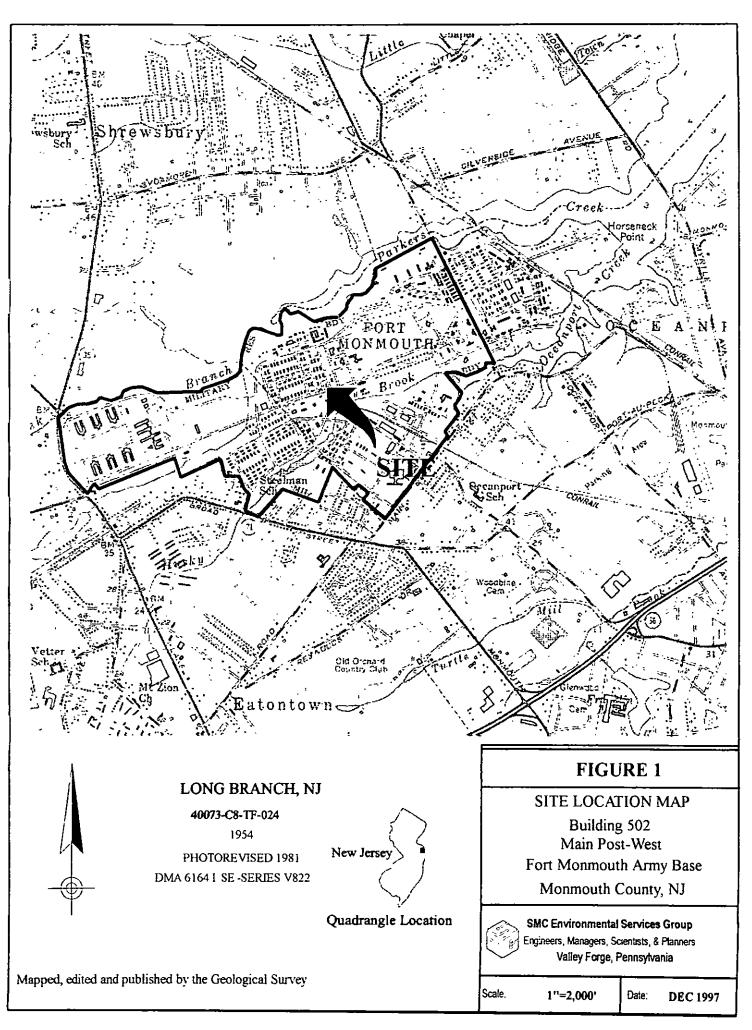
J Estimated value below method detection limit

FIGURES

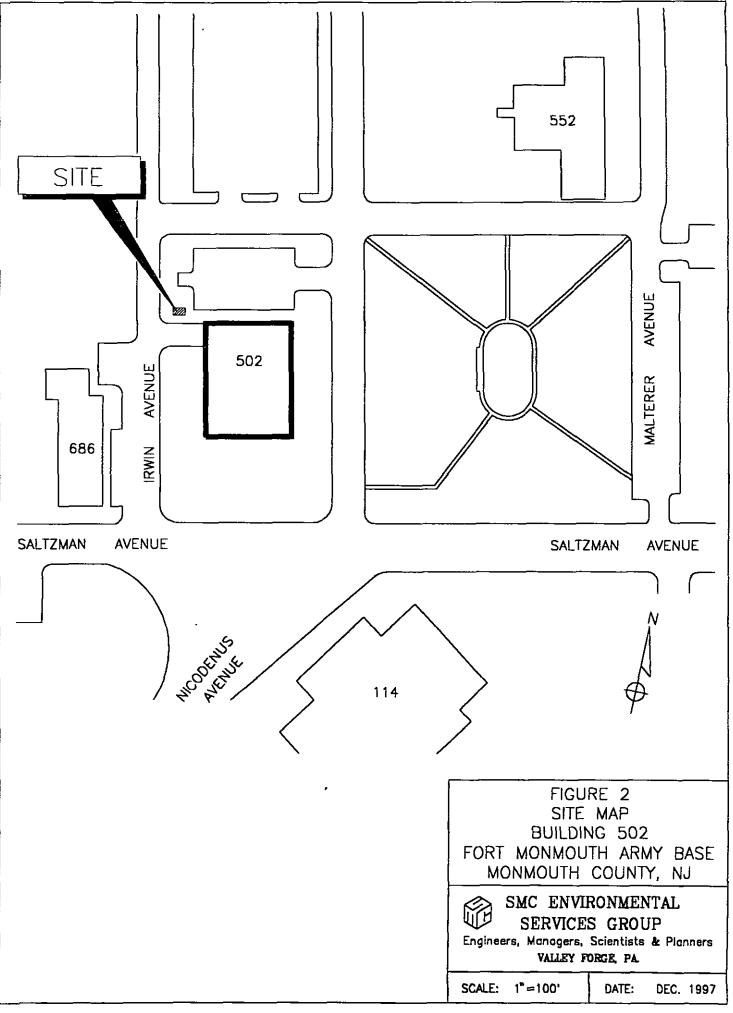
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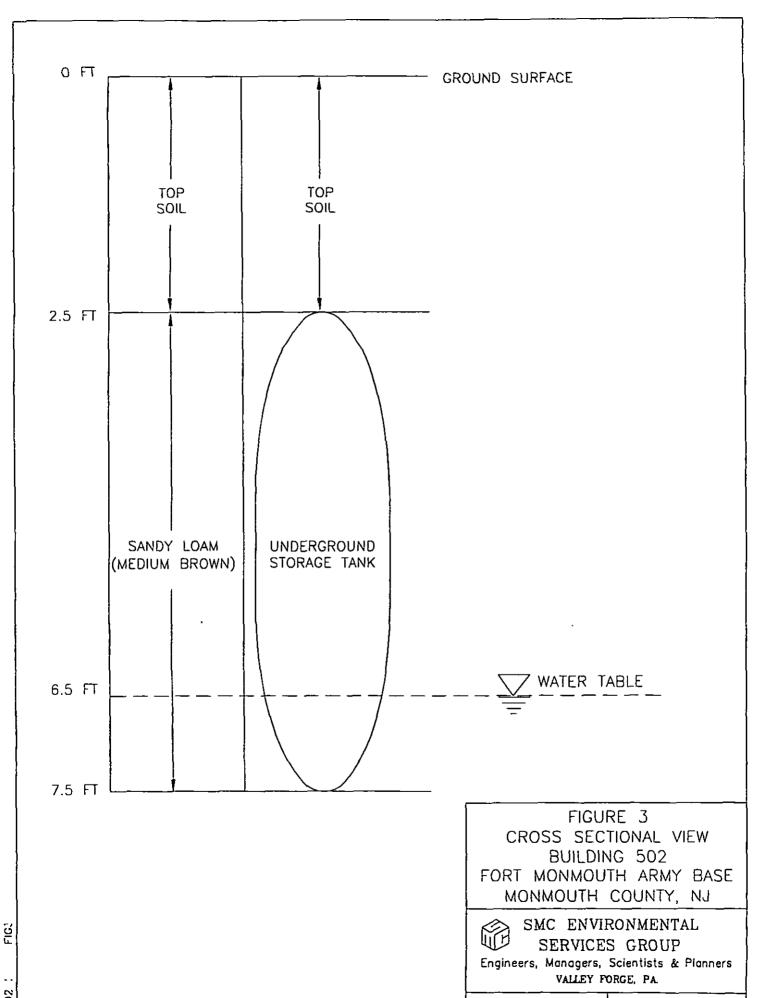




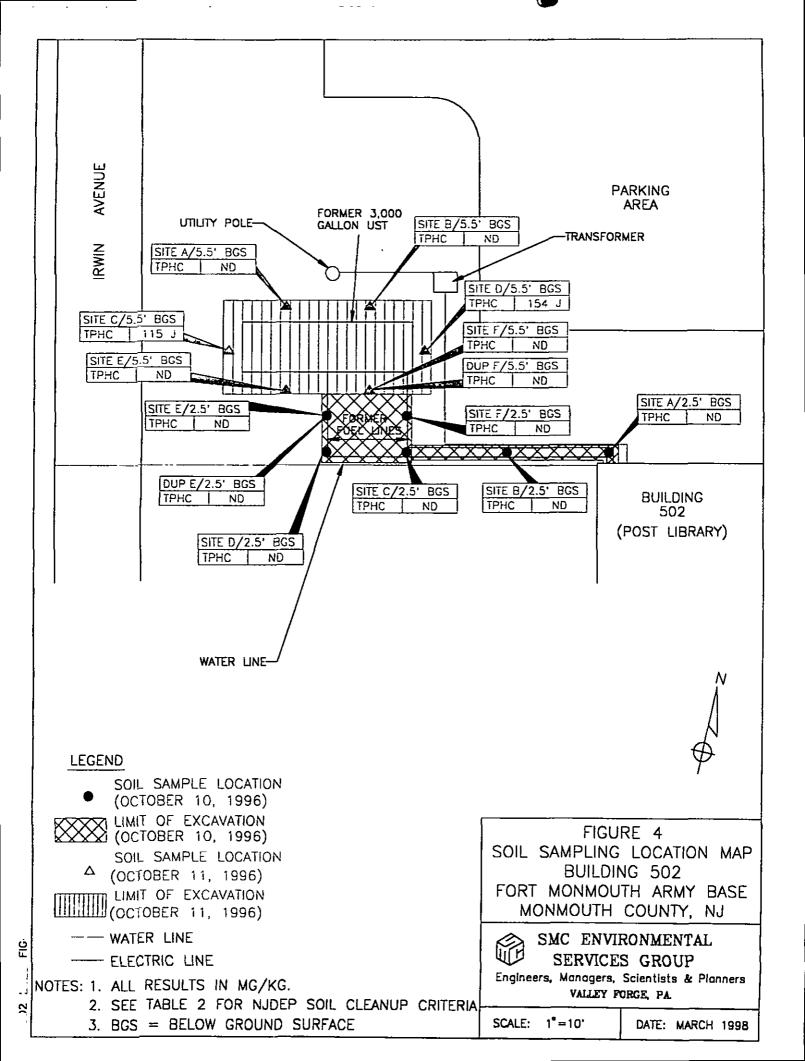
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SCALE: NTS



APPENDIX A

NJDEP STANDARD REPORTING FORM

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State of New Jersey Department of Environmental Protection and Energy Division of Responsible Party Site Remediation CN 028 Trenton, NJ 08625-0029

(609) 984-3156

Trenton, NJ 08625-0029 ATTN: UST Program

For State Use Only			
Date Rec'd.	· · · · · · · · · · · · · · · · · · ·		
Auth.			
Routing			
UST NO.			

- ; :

ING FORM In UST lacity:	
Sale or Transfer Substantial Modification Financial Responsibility Address Change Only	
nplete Form For That Activity	
listed per activity)	
	n UST facility: Sale or Transfer Substantial Modification Financial Responsibility Address Change Only nplete Form For That Activity

\*\*\* NOTE \*\*\* ALL NEW tank installations at existing registered tacilities must submit a Registration Questionnaire for the new tanks.

Answer questions 1 through 5 and others as applicable.

 Company name and address (as it appears on registration questionnaire):

N.S. AR MONMOUTH OKI

- 2. Facility name and location (If different from above):
- 3. Contact person for this activity:

GENE LESINSKI Telephone Number: ( 908) \_

4. The identification number of the affected tank as it appears in Question Number 12 on the Registration Questionnaire:

6 502

5. Registration Number (Eknown):

110813 UST -

6. For GENERAL FACILITY INFORMATION changes (address, telephone, contact person, etc. - supply NEW information only):

a. Facility name:		
b. Facility location:		4
c. Owner's malling address:		
	NJ	<u> </u>
d. Block: Lot:		
e. Contact person (taclity operator):		
1. Contact telephone number: ()		
	•	
g. Other (Specify):		

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$\mathbf{i}$		Þ.	Removal I	ate:	<u>_{()</u>	4_4	E	Case No.				
$\sim$			Artach the neces	isary Ir	nplement	ation sched	lule (3 cop	ies).			·	•
$\mathbf{i}$	E	Fo	CHANGES IN H	IAZĂR	DOUS SU	ESTANCE	S STORE	D (chéck all	that apply):			
•	ψ.									Remove all h	azardous	
			substances; leav	e tank	in place.							
		<b>b</b> .	C) Change In se		-			•	led substanc	e. Tank must l	be cleaned	
			and she assess	-	•			• •				
		۵.	Changes in I	service	trom ane	regulated i	hazardous	substance t	o another re;	pulated hazan	ious substan	CÊ.
			Tank No									
					(~JI:	ich addition	ual sheets	i more spac	e is needed)		•	
	9.	Fo	TRANSFER OF	OWN	ERSHIP:	Effec	ctive Da	te:	1 1			
		8.	New Owner (op	erator)								
		t.	New Facility Nat	me								
										<u>`````````````````````````````````````</u>		
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NOTE: ALL appropriate and applicable permits, licenses and certificates required by the shove activity(les) from any local, state and/or federal agencies must be obtained separately from this notification.

#### CERTIFICATION

"This registration form shall be signed by the highest ranking individual at the facility with overall responsibility for that facility (N.J.A.C. 7:148-2.3 (a) 1).""

"I certify under penalty of law that the information provided in this document is true, accurate and complete. I am enter that there are significant and and criminal cenalties for submitting talse, inaccurate or incomplete information, including times and/or imprisonment."

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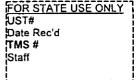
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APPENDIX B

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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

#### UNDERGROUND STORAGE TANK SITE ASSESSMENT SUMMARY

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

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

#### INSTRUCTIONS:

Scott A. Weiner

Commissioner

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

Date of Submission: \_\_\_\_\_\_/37/98

Building No. 502 UST No. 81533-77

0192477-1 Facility Registration #

#### 1. FACILITY NAME AND ADDRESS:

U.S. Army Fort Monmouth New Jersey

Directorate of Engineering and Housing	Building 167
Fort Monmouth, New Jersey 07703	County Monmouth
Telephone No. 732-532-6224	

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

Telephone No.

#### II. DISCHARGE REPORTING REQUIREMENTS

- 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)
- B. The substance(s) discharged was (were) <u>N/A</u>
- C. Have any vapor hazards been mitigated?\_\_\_\_\_Yes \_\_\_\_No \_\_\_X N/A

III. DECOMMISSIONING OF TANK SYSTEMS Closure approval No. U.S. Army "Blanket Closure"

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 the 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

- D. Ground Water Monitoring
- Number of ground water monitoring wells installed \_\_\_\_\_0 1.
- 2. Attach the analytical results of the ground water samples in tabular form. Include the following information for each sample from each well:
  - а. Site diagram number for each well installed
  - Depth of ground water surface b.
  - Depth of screened interval C.
  - d. Method detection limit of the method used
  - Well logs e.
  - f. Well permit numbers
  - QA/QC Information as required g.

#### V. SOIL CONTAMINATION

- Was soil contamination found? \_\_\_\_\_Yes \_\_\_X No Α. If "Yes," please answer Question B-E If "No," please answer Question B
- Β. The highest soil contamination still remaining in the ground has been determined to be:
  - N/A
     ppb total BTEX,
     N/A
     ppb total non-targeted VOC

     N/A
     ppb total B/N,
     N/A
     ppb total non-targeted B/N
     1.
    - 2. \_
  - 3. \_\_\_\_\_ <u>154 J</u>ppm TPHC
  - \_\_ ppb \_\_\_\_\_ N/A \_\_\_ (for non-petroleum substance) 4. \_ N/A
- 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
  - 3. Free product contaminated soils are suspected to exist off the property boundaries. \_\_\_\_Yes \_\_\_\_No
- D. Was the vertical and horizontal extent of contamination determined? \_\_\_\_\_Yes \_\_\_\_No \_\_\_\_N/A
- E. Does soil contamination intersect ground water? \_\_\_\_\_Yes \_\_\_\_No \_\_\_\_N/A

#### VI. GROUND WATER CONTAMINATION

- A. Was ground water contamination found? \_\_\_\_ Yes \_\_\_ No If "Yes," please answer Questions B-G. If "No," please answer only Question B.
- B. The highest ground water contamination at any 1 sampling location and at any 1 sampling event to date has been determined to be: N/A

1ppb total BTEX	ppb total non-targeted VOC
2ppb total B/N	ppb total non-targeted B/N
3ppb total MTBE	ppb total TBA
4ppb	(for non-petroleum substance)
5. greatest thickness of separate ph	

6. separate phase product has been delineated \_\_\_\_\_Yes \_\_\_ No N/A

#### C. Result (s) of well search

- 1. A well search (including a review of manual well records) indicates that private, municipal or 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) is \_\_\_\_\_\_ feet below grade. This well is located \_\_\_\_\_\_ feet from the source.
  - The closest horizontal distance of a private, commercial, or municipal well in the potential path of the plume (as determined in D1) is \_\_\_\_\_\_ feet from the source. This well is \_\_\_\_\_ feet deep and screening begins at a depth of \_\_\_\_\_\_ feet.
- E. A plan for separate phase product recovery has been included. \_\_\_\_\_Yes \_\_\_\_ No \_\_\_\_ N/A
- F. A ground water contour map has been submitted which includes the ground water elevations for each well.
- G. Delineation of contamination
  - 1. The ground water contaminants have been delineated to MCLs or lower values at the property boundaries.
  - 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 EVALUA	TOR LOG		1.
COMPANY NAME	U.S. Army Fort Monmouth		DATE _	NA
	(Preparer of Site Assessment Plan)			, ,
CERTIFYING		CERTIFYING		
ORGANIZATION _	NJDEP	NUMBER	2056	

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			 DATE
-	(Performer of Tank Decommission	oning)	

#### 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."

NAME (Print or Type)	SIGNATURE	MGH	<b>.</b>
COMPANY NAMEU.S. Army Fort Monmouth	DATE	7/27/98	

- 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

DAIL: UST SUBSURFACE REMOVAL LOG  BLDG.#: <u>J0</u> , <u>10</u> , <u>10}, <u>10</u>, <u>100, 100, <u>100, 100, 100, 100, 100, 1</u></u></u>		
BLDG. #:	<u> "IS ARMY, SELFM-PW-</u> V	
DATE: <u>10-11-96</u> TOA: <u>1083</u> TOD: <u>H33</u> GOV. SSE: <u>L051/N51/1</u> REMOVAL CONTRACTOR: SAI Inc. CLOSURE SUPERVISOR: <u>G</u> , <u>DEMOTINIS</u> NJDEP CERT. #: <u>001/537</u> REMOVAL CONTRACTOR: SAI Inc. CLOSURE SUPERVISOR: <u>G</u> , <u>DEMOTINIS</u> NJDEP CERT. #: <u>WEATHER: <u>SUNNY - 55°F</u> <u>ACTIVITY</u> <u>**</u> <u>ACTIVITY</u> <u>**</u> <u>ALL ON-SITE DURING UST REMOVAL AND SITE SCREENING AND SAMPLING ACTIVITIES <u>*</u> <u>ACTIVITY</u> <u>**</u> <u>ALL ON-SITE PERSONNEL HAD TRAINING IAW ALL SAFETY REQUIREMENTS (E.G. 29CFR) <u>ALL SAMPLE ONTO PLASTIC, SCRAPED OF, INSPECTED FOR HOLES AND PHOTOGRAPHED</u> <u>*</u> <u>ALL SAMPLE SECONTED TO THE NJDEP (609-292-7172), CASE#</u> <u>*</u> <u>ALL SAMPLEG</u> A DATE, TIME, NAME OF SSE AND DESCR. WRITTEN ON BACK <u>ACONSCHARE</u> AND <u>ALL ATTER, NAME OF SSE AND DESCR. WRITTEN ON BACK <u>ACONSCHARE</u> AND <u>ALL AND FOUND TO BE OPERATIONAL (cal. data on COC) <u>ALL SAMPLES</u> WERE TAKEN: COC, SCALED SITE MAP (VERT. SOIL HORIZONS AND PLOT PLAN) <u>ALL SAMPLES</u> WERE TAKEN: COC, SCALED SITE MAP (VERT. SOIL HORIZONS AND PLOT PLAN) <u>ALL SAMPLES</u> WERE TAKEN: COC, SCALED SITE MAP (VERT. SOIL HORIZONS AND PLOT PLAN) <u>ALL SAMPLING</u> WAS BIASED TOWARD HIGHEST OVA/FID RECORDED SITES IAW 7:26E-3.6 <u>eL seq</u> <u>ALL SAMPLING</u> WAS BIASED TOWARD HIGHEST OVA/FID RECORDED SITES IAW 7:26E-3.6 <u>eL seq</u> <u>ALL PETRO</u></u></u></u></u></u>	DAILY UST SUBSURFACE REMOVAL LOG	
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CHECK ALL BOXES. LEAVE NO F		

performed in compliance with N.J.A.C. 7:14B-9.2(b)3 and 7:26 et seq.. I am aware 1 at there are significant penalties for submitting false, inaccurate, or 1..complete information, including fines and/or imprisonment.

DATE: 16-11-91 GNATURE :

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<u>SARMY, SELFM-PW-F</u>	
DAILY UST SUBSURFACE REMOVAL LOG	

BLDG. #: 502	REG. #: 00815	33-77 CLOSURE#: NA	_
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CLOSURE SUPERVISOR		OR: SAI Inc. ISNJDEP CERT.#:	• • <u>.</u>
Ŷ	VEATHER: SUNNY	- 60°1-	

### YES/ ACTIVITY NO THE SUPERVISOR (CLOSURE CERT.) WAS ON-SITE DURING ALL CLOSURE RELATED ACTIVITIES THE SSE WAS ON-SITE DURING DET REMOVAL AND SITE SCREENING AND SAMPLING ACTIVITIES ALL ON-SITE PERSONNEL HAD TRAINING IAW ALL SAFETY REQUIREMENTS (E.G. 29CFR) A CONFINED ENTRY PERMIT WAS COMPLETED AND POSTED ON-SITE BY THE CONTRACTOR THE UST WAS PLACED ONTO PLASTIC, SCRAPED OFF, INSPECTED FOR HOLES AND PHOTOGRAPHED A DISCHARGE WAS REPORTED TO THE NJDEP (609-292-7172), CASE# PHOTOS HAVE UST#, BLDG. #, DATE, TIME, NAME OF SSE AND DESCR. WRITTEN ON BACK GROUNDWATER WAS ENCOUNTERED AT 6,5 FEET BG, A SHEEN (WAS/WAS NOT) OBSERVED ON GW IF OVA/Hnu WAS USED: WAS IT CAL. AND FOUND TO BE OPERATIONAL (cal. data on COC) IF SAMPLES WERE TAKEN: COC, SCALED SITE MAP (VERT. SOIL HORIZONS AND PLOT PLAN) ALL SAMPLE COLLECTION ACTIVITIES WERE AS DESCRIBED IN THE NJDEP FSPM, 1992 ALL SAMPLING WAS BIASED TOWARD HIGHEST OVA/FID RECORDED SITES IAW 7:26E-3.6 et seg. ALL PETROL. CONT. SOILS WERE SECURED FROM THE WEATHER BY CLOSE OF BUSINESS TODAY THE SSE AUTHORIZED BACKFILLING THE EXCAVATION (STONE TO 1" ABOVE GROUNDWATER) ADDITIONAL NOTES WERE TAKEN AND ARE RECORDED ON THE BACK OF THIS FORM 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)

CHECK ALL BOXES. LEAVE NO BLANKS I certify under penalty of law that tank decommissioning activities were rformed in compliance with N.J.A.C. 7:14B-9.2(b)3 and 7:26 et seq.. I am aware at there are significant penalties for submitting false, inaccurate, or incomplete information, including fines and/or imprisonment.

DATE: 10-10-96 **L\_GNATURE**:

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APPENDIX C

WASTE MANIFEST

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### APPENDIX D

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### UST DISPOSAL CERTIFICATE

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	MAZZA & SONS, INC.	NO9,
	Metal Recyclers Auto and Truck 3230 Shafto Rd. Tinton Fails, NJ (908) 922-9292	DATE 2500791
Customer's Name	Tecom VINING	
_	TOZ (#1 of 2)	
**************************************	14500 LB	Weight Price Cast kon Steel Trank 52.20
Tires	12760 LB	Lt. tron Copper #1 Copper #2
	1740	LL Copper Brass Alum Clean
		Lead Stainless Radiators Battery
	2.4	TOTAL AMOUNT:
o	CL# 3500-	
Weigher	Customer Auffrance	
	MAZZA & SONS, INC.	3500
	DEBTOR IN POSSESSION 3230 SHAFTO RD. TINTON FALLS, NJ 07753	те <u> </u>
TOTAL OF INVOICES PAN LESS % OISCOUNT ORL	WO HUNDRED GALTY + 80/1~	\$:280.80
TOTAL DEDUCTIONS	Natwest Bank NA Nutries Bank NA Jumpers Brook Office 3036 Highwar 33, Nephane, NJ 87733	North I. a.
، «۲۵۵۵500» ،	L	MURKINGS

		·
	MAZZA & SONS, INC.	NO295
	MAZZA & SONS, INC. Metal Recyclers Auto and Truck 3230 Shafto Rd. Tinton Fails, NJ (908) 922-9292	DATE <u>25 0776</u>
Customer's Name	Tream Unumic 02 (#2 of 2)	, ,
B. S. Make of Autos	0L (#2001 L) 14400 LB	Weight Price Cast Iron Steel 77, 1, 17, 4/9, 20
Tires           Tank           Price	12760 LB 1640	Copper #1 Copper #1 Copper #2 L1. Copper Brass Atum Clean
	24	Lead Stainless Radiators Battery TOTAL AMOUNT:
o Weigher	CLAT 3500	
THE CHECK IS DELIVERED FOR PAYMENT ON THE POLLOWING ACCOUNTS. DATE AMOUNT TOTAL OF INVOICES	MAZZA & SONS, INC. RECYCLING DIVISION DEBTOR IN POSSESSION 3230 SHAFTO RD. TINTON FALLS, NJ 07753 DATI PAY TO THE ORDER OF ICOM Innell	3500 <u>10/25/96</u> 55-33 212 3500 212 3500 212 3500 212 3500 212 3500 212 3500 212 3500 212 3500
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APPENDIX E

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SOIL ANALYTICAL DATA PACKAGE

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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	Analysis Start: 10/15/96	
Analysis: OQA-QAM-025 Matrix: Soil Analyst: S. Wegeman Ext. Meth: Shake	NJDEP UST Reg.#: Closure #: DICAR #: Location #: Bldg. 502	<b>R</b> 1

ab ID	Description	OVA	%Solid	MDL	Surrogates	Result
1				(mg/Kg)	% Recovery	(mg/Kg)
°176.1	502-A (Piping Run @ 2.5')	ND	88.8	200	85/90	ND
176.2	502-B (Piping Run @ 2.5')	ND	87.8	200	87/90	ND
2176.3	502-C (Piping Run @ 2.5')	ND	82.4	200	88/92	ND
.176.4	502-D (Piping Run @ 2.5')	ND	92.5	200	90/94	ND
176.5	502-E (Piping Run @ 2.5')	ND	89.4	200	91/96	ND
2176.6	502-F (Piping Run @ 2.5')	ND	87.6	200	82/88	ND
176.7	502-DUP (Field Duplicate)		89.3	200	89/93	ND
Γ ——						
	Method Blank	NA	100	200	89/92	ND

QC:	2177.7MS=91.7%, 2177.7MSD=81.5%, RPD=11.7%
QC Limits:	Surrogate: 50% - 165%
	MS/MSD: not established RPD: not established
Notes:	ND = Not Detected, MDL = Method Detection Limit
	NA = Not Applicable
	<pre>* = Matrix Interference</pre>

Daniel K. Wright Laboratory Director

	U.S. Army,	Report o: Fort Monmouth NJDEP Certifi			tory	
С	lient: U.S. Army DPW, SELFM-PW-EV Bldg. 173 Ft. Monmouth, NJ C		Sample Re Analysis St	ID #: 2176. ec'd: 10/11 cart: 10/15 Comp: 10/16	/96 /96	
M A	nalysis: OQA-QAM-025 atrix: Soil nalyst: S. Wegeman xt. Meth:Sep. Funnel	NJDEP UST Re Closur DICA Locatio	e #:	502		
Lab ID	Description	OVA	% Solid	MDL (mg/L)	Surrogates % Recovery	Result (mg/L)
2176.8	502-Field (Field Blank)	NA	NA	5	58/74	ND
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	<u> </u>		<u> </u>	ļ	<u>                                      </u>	
	· · · ·		<u> </u>			
	Method Blank	NA	NA	5	47/79	ND ND

QC: Extraction Blank Spike = 71.7 QC Limits: Surrogate: 50% - 165% MS/MSD: not established RPD: not established Notes: ND = Not Detected, MDL = Method Detection Limit NA = Not Applicable \* = Matrix Interference

Daniel K. Wright / Laboratory Director



## **Methodology Summary**

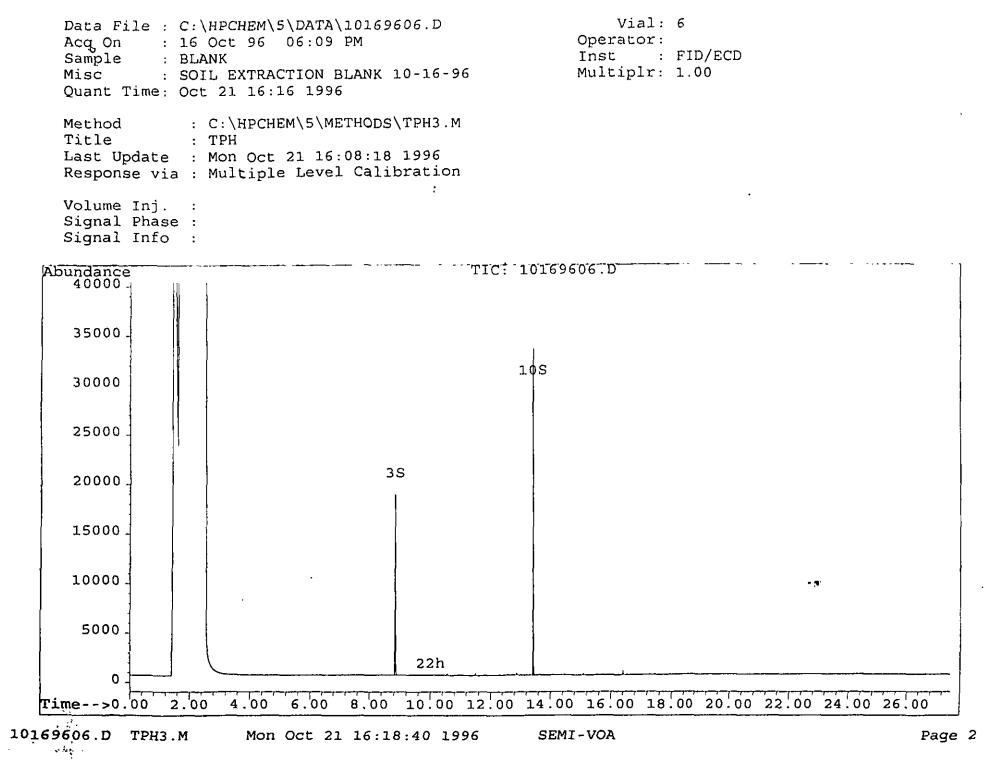
Aqueous Methodologies:	<u>Ref 1</u>	<u>Ref 2</u>	<u>Ref 3</u>	<u>Ref 5</u>
BNA, Pesticides/PCB's Extraction AA/ICP Sample Preparation Furnace Sample Preparation Mercury Sample Preparation Haxavalent Chromium Sample Preparation	200.7 200.0 245.1	3510/3520	Ē	
Clean-up	210.5	3610/3620/3630 3640/3660	) ·	
Organochlorine Pesticide and PCB by GC Herbicides by GC Purgeable Organics by GC/MS Base/Neutral, Acids by GC/MS 2,3,7,8-TCDD by GC/MS BTEX EDB/DBCP by Microextraction		30-0/3000	608 362 624 625 613/625 602	505 515.1 524.2 525 502.2 504.1
Non-Aqueous Methodologies:				
BNA, Pesticides/PCB's Extraction AA/ICP Sample Preparation Furnace Sample Preparation Mercury Sample Preparation Clean-up GC, GC/MS:		3550 3050 3020/3030/3050 7471 3610/3620/3630 3640/3660		
Purgeable Organics Base/Neutral and Acid Extractables Organophosphorus Pesticides Organochlorine Pesticide and PCB by GC BTEX Halogenated Purgeable Organics Total Petroleum Hydrocarbon **		8240/8021 8270 8140 8080 8020 8010		
<ul> <li>Ref 1. USEPA-600/4-79-020, Methods for</li> <li>Ref 2. USEPA SW846, Test Methods for</li> <li>Ref 3. Federal Register 40 CFR Part 136</li> <li>Pollutants.</li> <li>Ref 4. Federal Register Vol. 51, No. 216</li> <li>Ref 5. Method for the Determination of the Determination of the Determination of the Determination.</li> </ul>	r Evaluating Solid , Vol. 49, No. 209 , Friday, 11/7/86,	Waste, Third Edi Test Parameters pp. 40643-40652	tion for the Analysis	

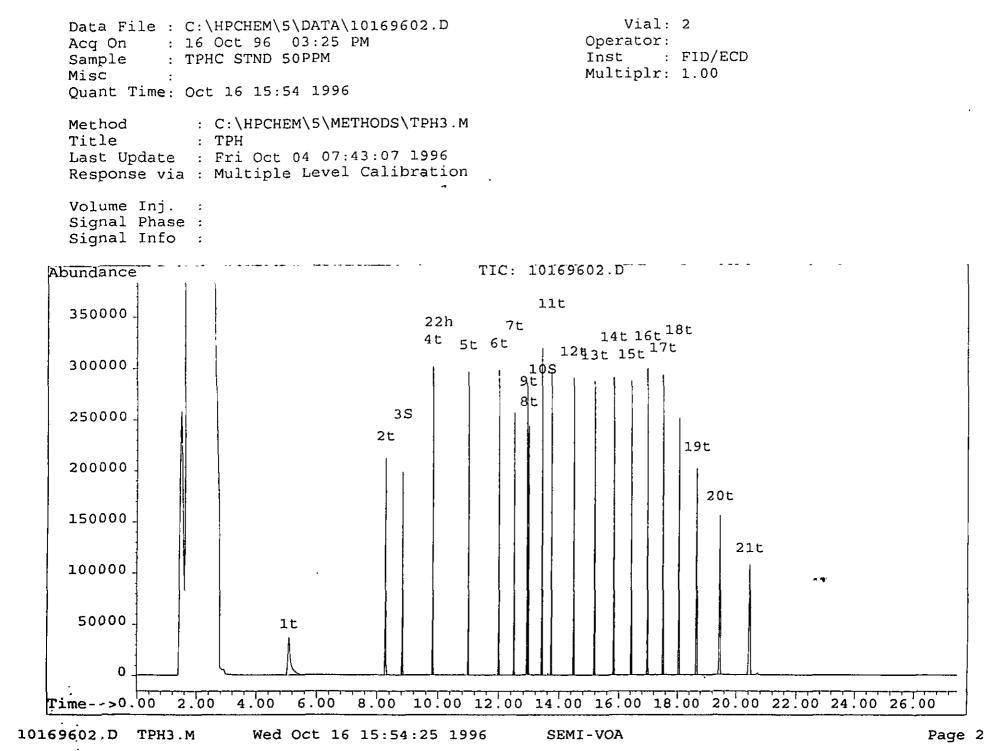
Ref 6. Standard Methods for the Examination of Water and Wastewater, 18th Ed.

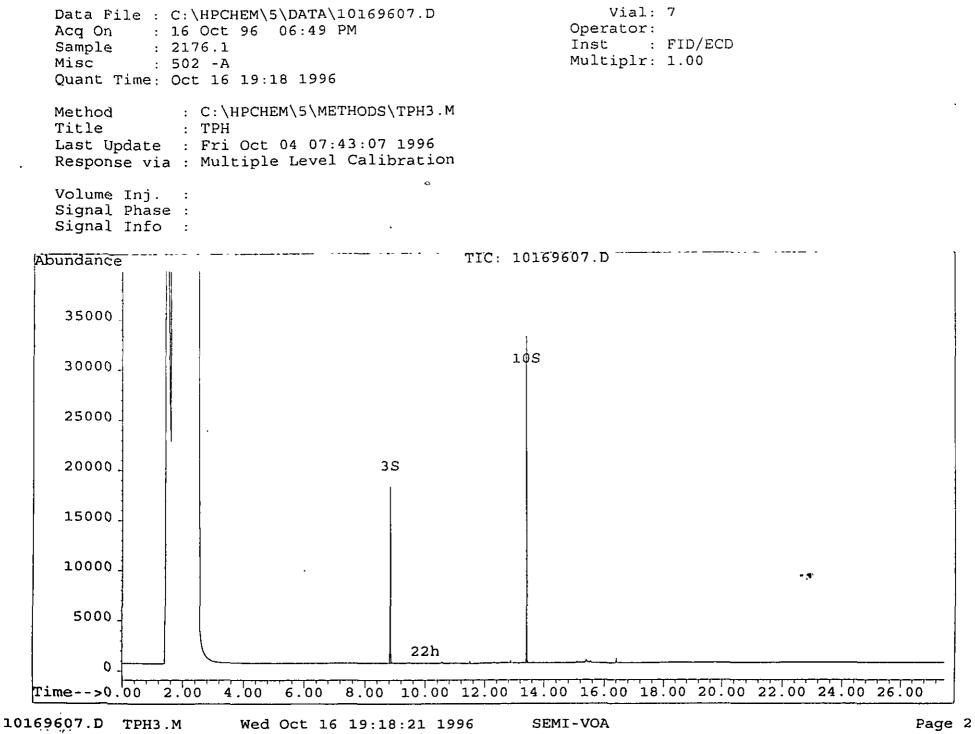
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\*\* NJDEP OQA-QAM-025-10/91: Quantitation of Semi-Volatile Petroleum Products in Water, Soil, Sediment and Sludge

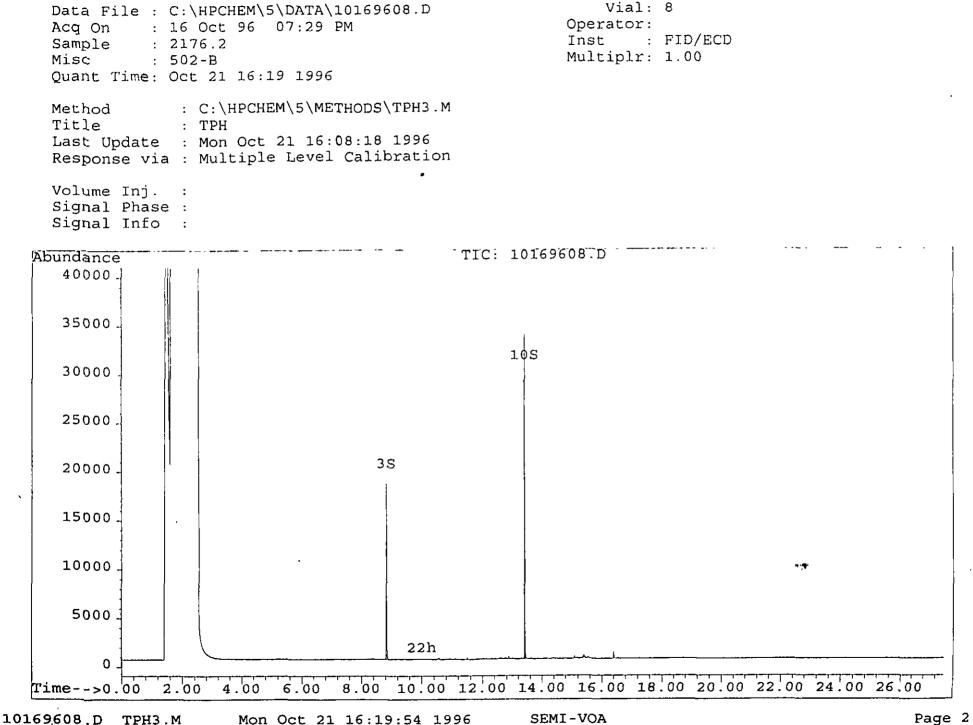
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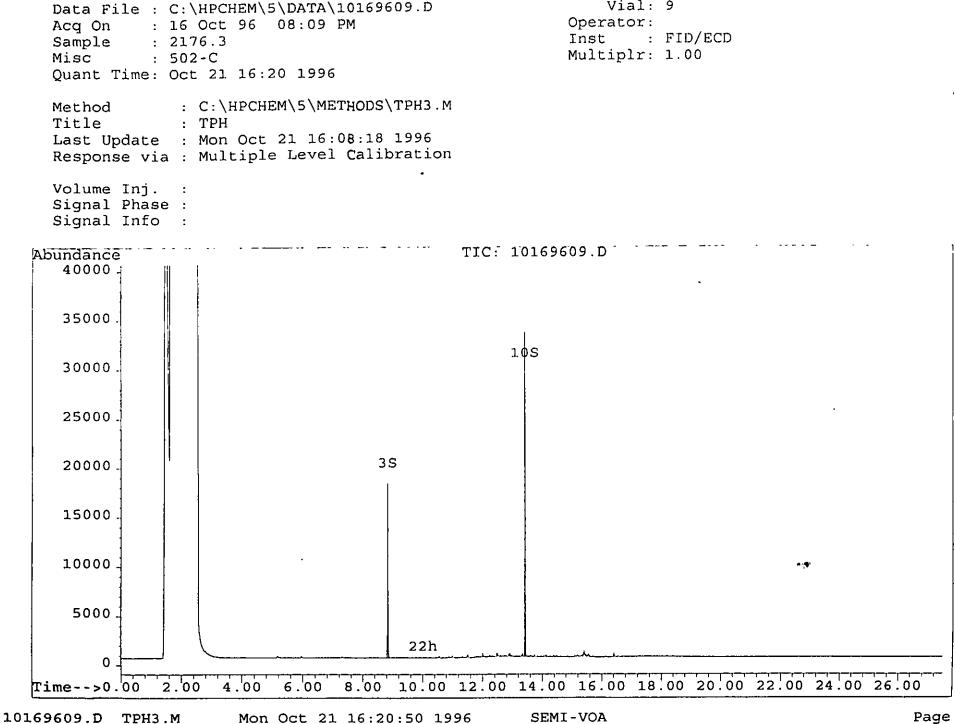


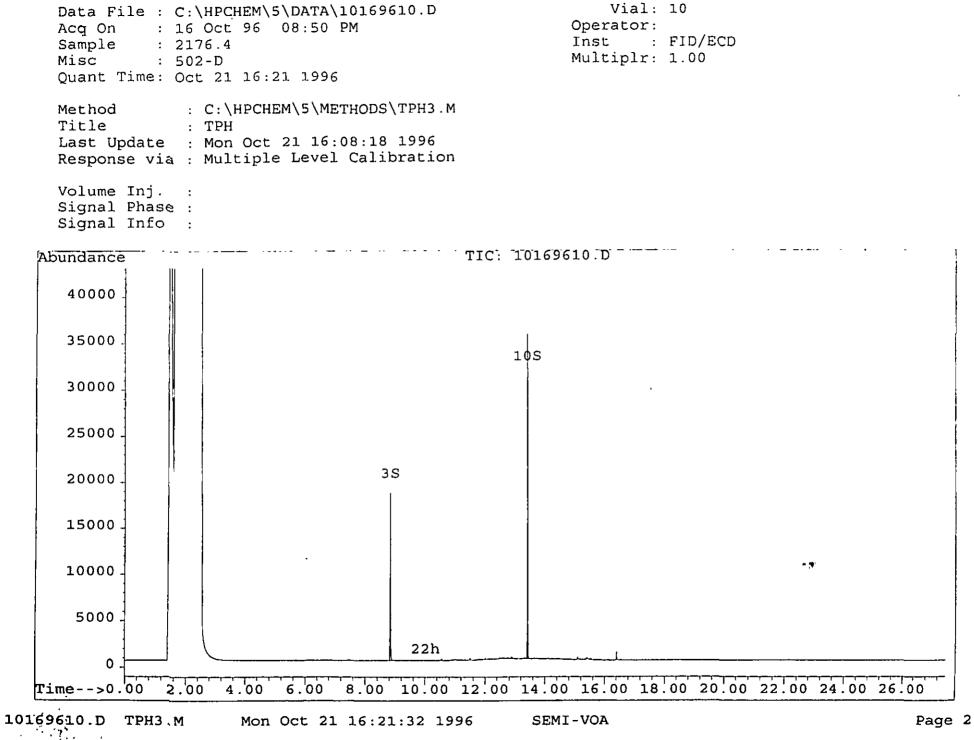
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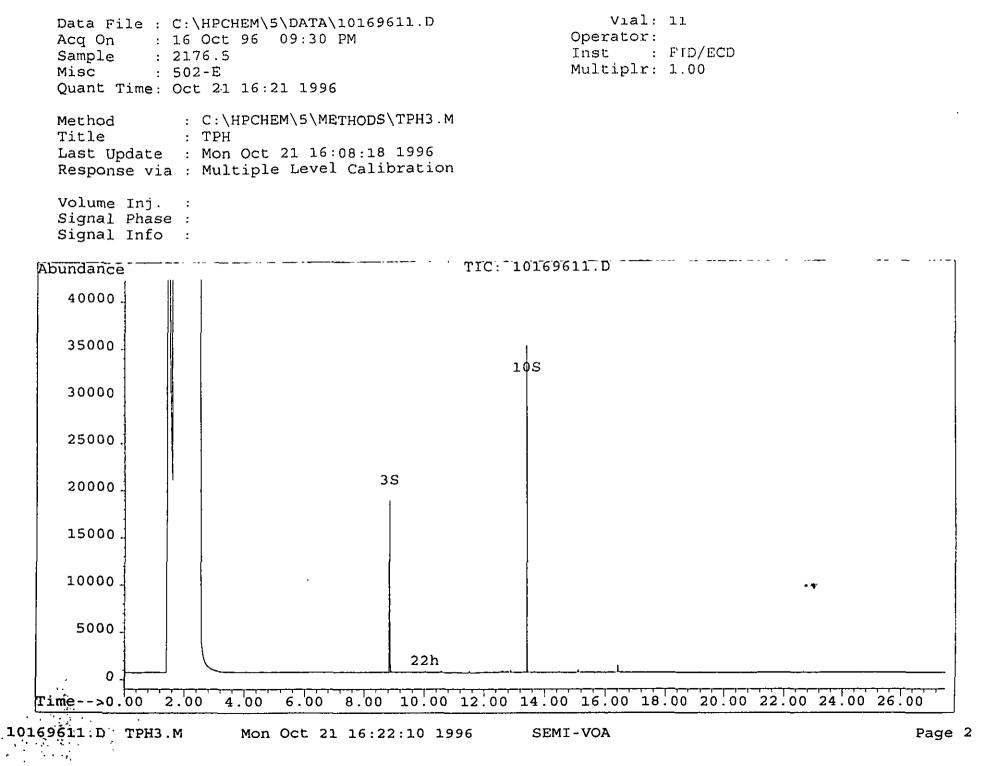


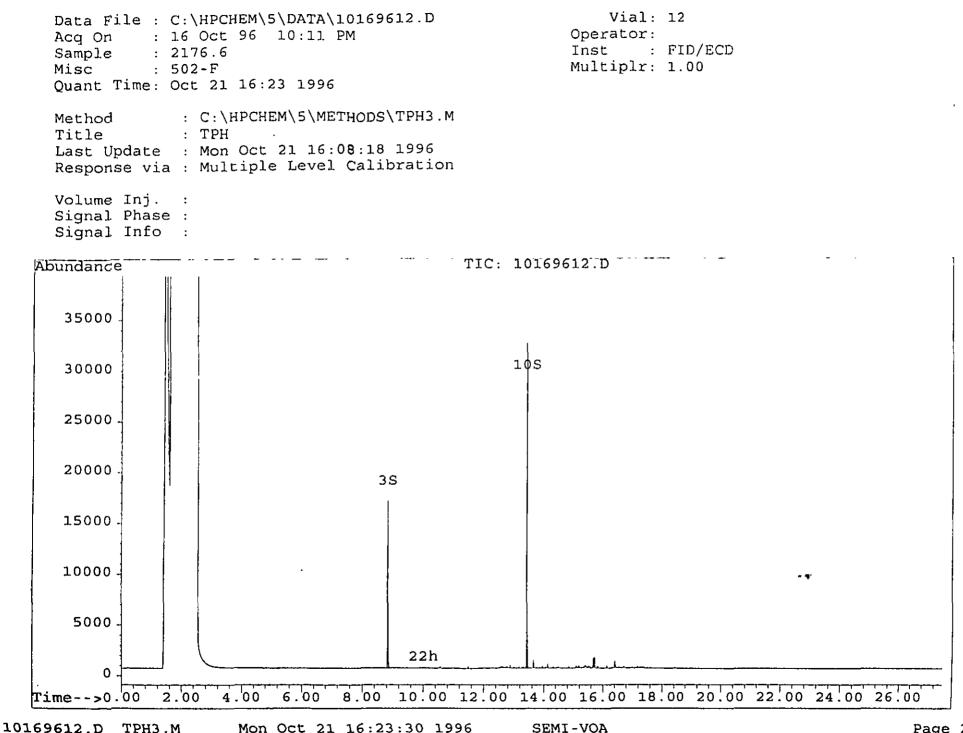
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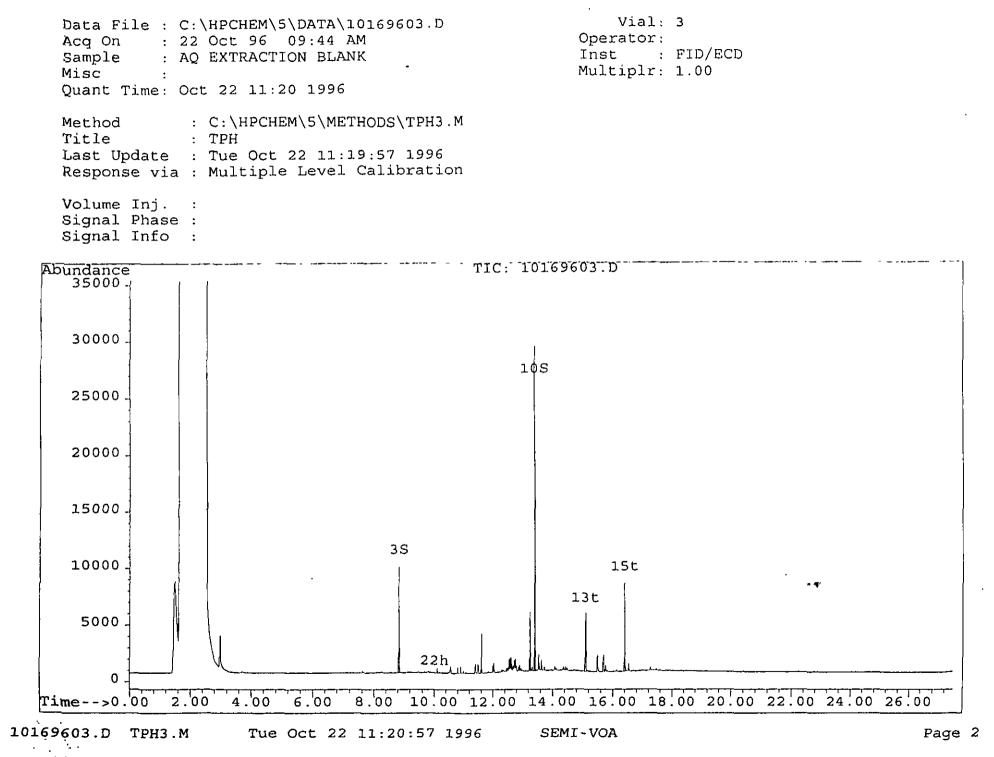


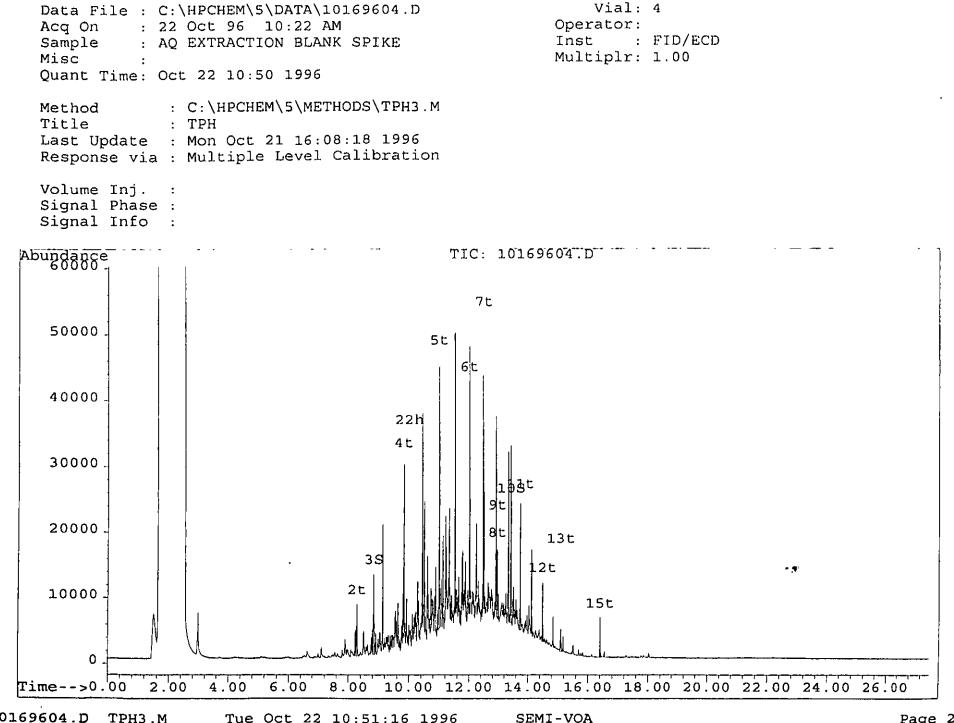




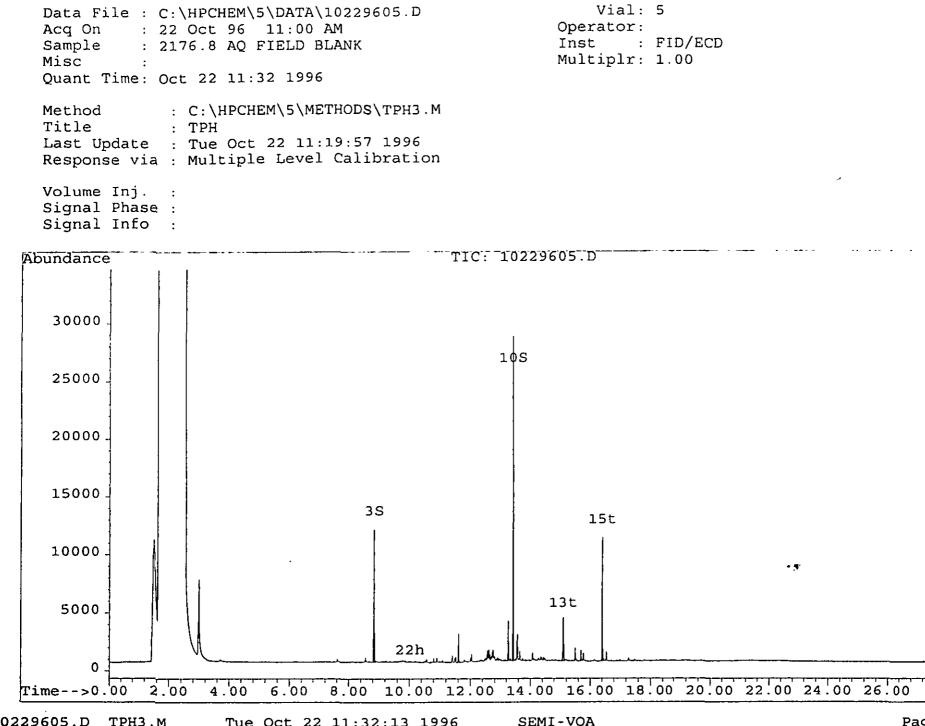


Page 2





10169604.D TPH3.M Tue Oct 22 10:51:16 1996



PHC Conformance/Non-conformance Summary	Report
	<u>No Yes</u>
1. Method Detection Limits provided	
2. Method Blank Contamination - If yes, list the sample and the corresponding concentrations in each blank.	يد _ ا
3. Matrix Spike Results Summary Meet Criteria. (If not met, list the sample and corresponding recovery which falls outside the acceptable range'.	
4. Duplicate Results Summary Meet Criteria. (If not met, list the sample and corresponding recovery which falls outside the acceptable range	
5. IR Spectra submitted for standards clanks i samples	_AA
<ol> <li>Chromatograms submitted for standards, blanks, and samples if GC fingerprinting was conducted.</li> </ol>	
7. Analysis holding time met.	
(If not met, list number of days exceeded for each sample)	
Additional Comments:	

#### Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW 846 for Solid Waste Analysis. I have personally examined the information contained in this report, and to the best of my knowledge, I believe that the submitted information is true, accurate, complete, and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information including the possibility of a fine and imprisonment.

Daniel K. Wright Laboratory Manager

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	U.S. Army,		t Monmouth	f Analysis Environme cation # 1		tory	
(	Client: U.S. Army DPW, SELFM-PW-EV Bldg. 173 Ft. Monmouth, NJ 0	770		Sample Re Analysis S	ID #: 2177. ec'd: 10/11 tart: 10/15 Comp: 10/16	/96 /96 /96	
h A	Analysis: OQA-QAM-025 Matrix: Soil Analyst: S. Wegeman Ext. Meth: Shake	NJDI	EP UST Re Closur DICA Locatio	e #:			
ab ID	Description		OVA	%Solid	MDL	Surrogates	Result
					(mg/Kg)	% Recovery	(mg/Kg)
	502-A (Sidewall @ 5.5')		ND	83.1	200	90/94	ND
	502-B (Sidewall @ 5.5')		ND	85.4	200	90/93	ND
	502-C (Sidewall @ 5.5')		3	86.4	200	89/95	115 J
	502-D (Sidewall @ 5.5')	<u> </u>	ND	91.1	200	92/99	154 J
	502-E (Sidewall @ 5.5')		5	84.6	200	74/89	ND
	502-F (Sidewall @ 5.5')		ND	80.2	200	76/92	ND
177.7	502-DUP (Field Duplicate)		<u>NA</u>	80.0	200	74/90	ND
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				<u> </u>			
	Method Blank		NA	100	200	89/92	ND
						00/02	
	<u> </u>		l	ł	!		L

QC: 2177.7MS=91.7%, 2177.7MSD=81.5%, RPD=11.7%
QC Limits: Surrogate: 50% - 165%
MS/MSD: not established RPD: not established
Notes: ND = Not Detected, MDL = Method Detection Limit
NA = Not Applicable
\* = Matrix Interference

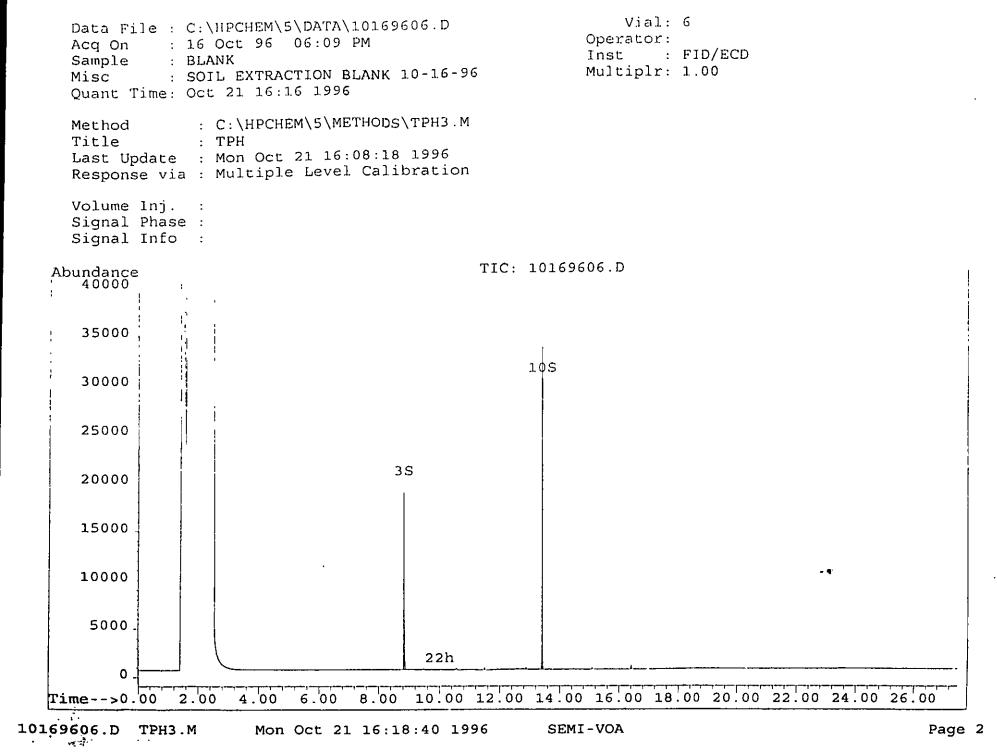
Daniel K. Wright

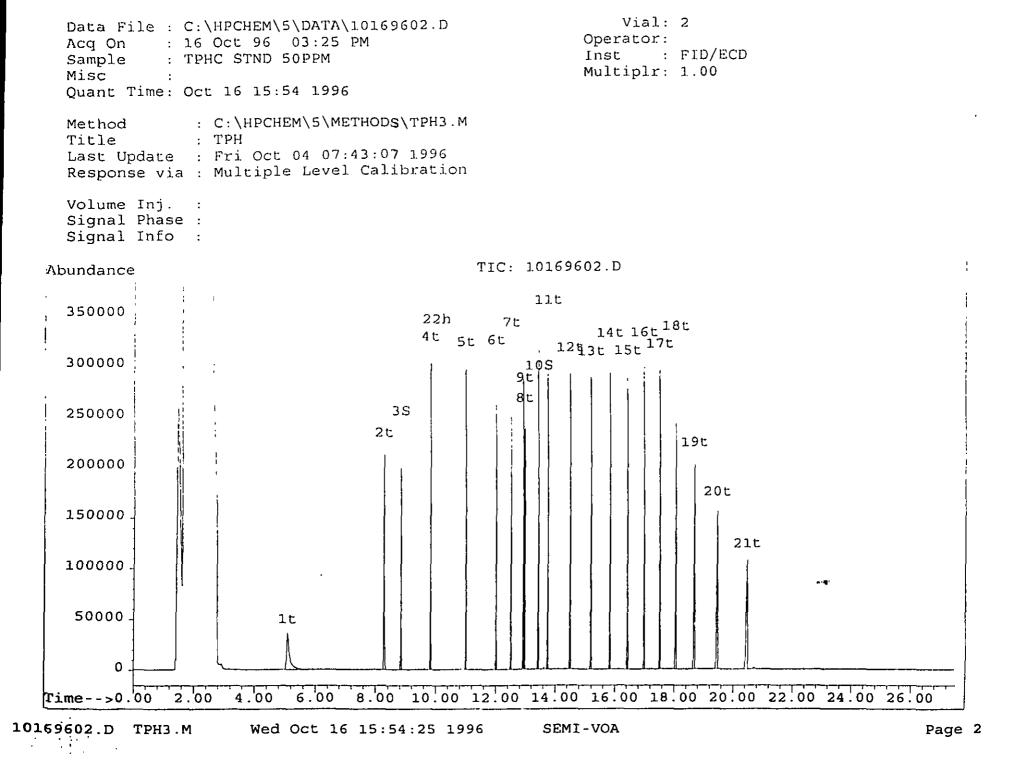
Laboratory Director

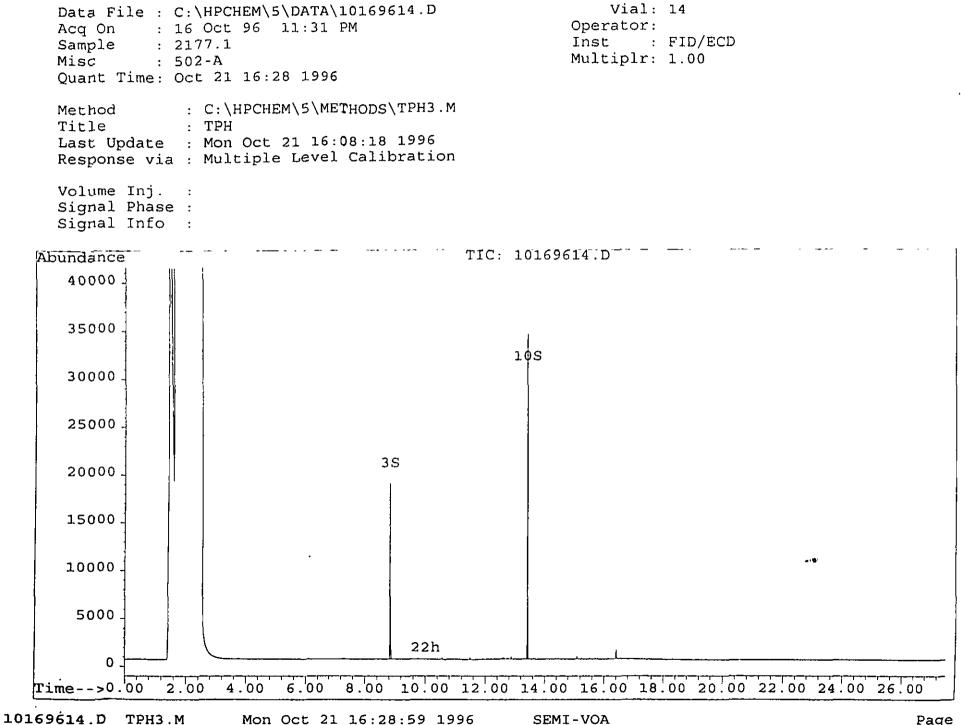
### Methodology Summary

Aqueous Methodolo	ogies:	<u>Ref 1</u>	<u>Ref 2</u>	<u>Ref 3</u>	<u>Ref 5</u>
BNA, Pesticides/PC AA/ICP Sample Pre Furnace Sample Pre Mercury Sample Pre Haxavalent Chromit Clean-up	paration paration	200.7 200.0 245.1 218.5	3510/3520 3610/3620/3630	<u>+</u> .	
Cicali-up			3640/3660	,	
Organochlorine Pes Herbicides by GC Purgeable Organics Base/Neutral, Acids 2,3,7,8-TCDD by G BTEX EDB/DBCP by Mic	by GC/MS C/MS			608 362 624 625 613/625 602	505 515.1 524.2 525 502.2 504.1
Non-Aqueous Meth	odologies:				
BNA, Pesticides/PC AA/ICP Sample Pre Furnace Sample Pre Mercury Sample Pre Clean-up	paration paration		3550 3050 3020/3030/3050 7471 3610/3620/3630 3640/3660		
GC, GC/MS:					
Purgeable Organics Base/Neutral and A Organophosphorus Organochlorine Pes BTEX Halogenated Purgea Total Petroleum Hy	cid Extractables Pesticides ticide and PCB by GC able Organics		8240/8021 8270 8140 8080 8020 8010		
	00/4-79-020, Methods for V846, Tast Methods for				
	W846, Test Methods for gister 40 CFR Part 136				of
	gister Vol. 51, No. 216	• • • • •	рр. 40643-40652		
D.CC 34.4.4C	and the state of the Co	<b></b>	1 1 10 1010 101		0 10 0 0

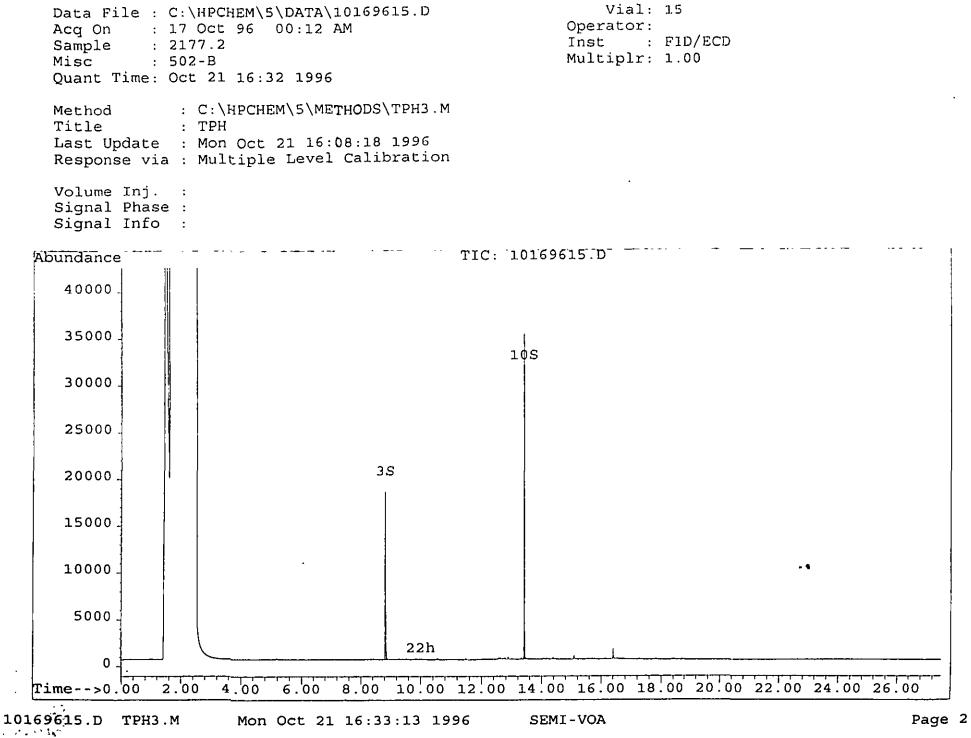
- Ref 5. Method for the Determination of Organic Compounds in Drinking Water, EPA 500/4-88/039, Dec. 1988.
- Ref 6. Standard Methods for the Examination of Water and Wastewater, 18th Ed.
- \*\* NJDEP OQA-QAM-025-10/91: Quantitation of Semi-Volatile Petroleum Products in Water, Soil, Sediment and Sludge

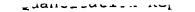


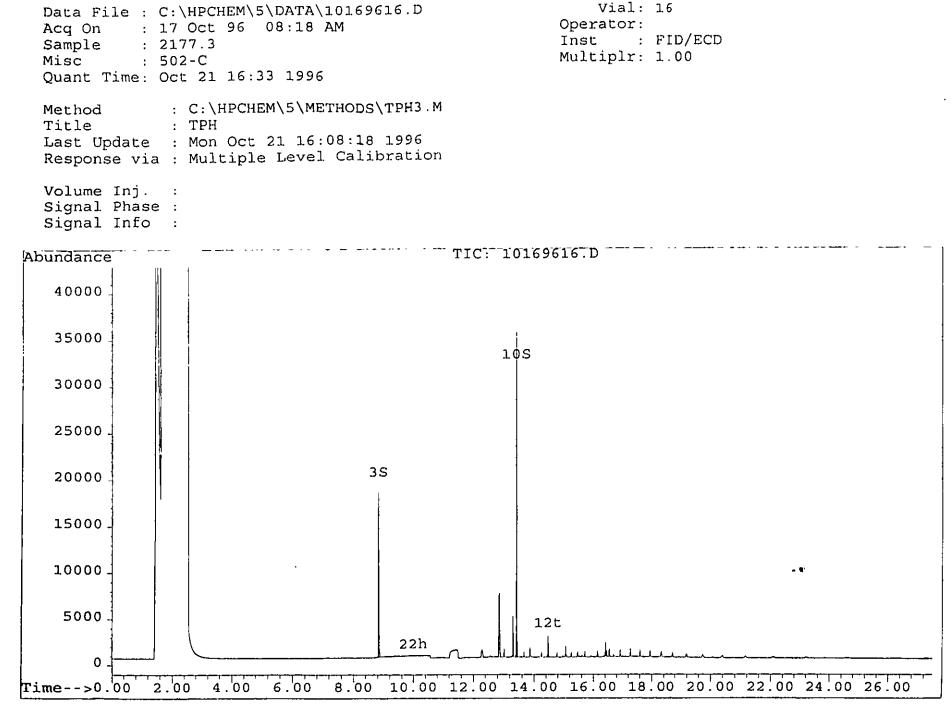


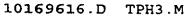


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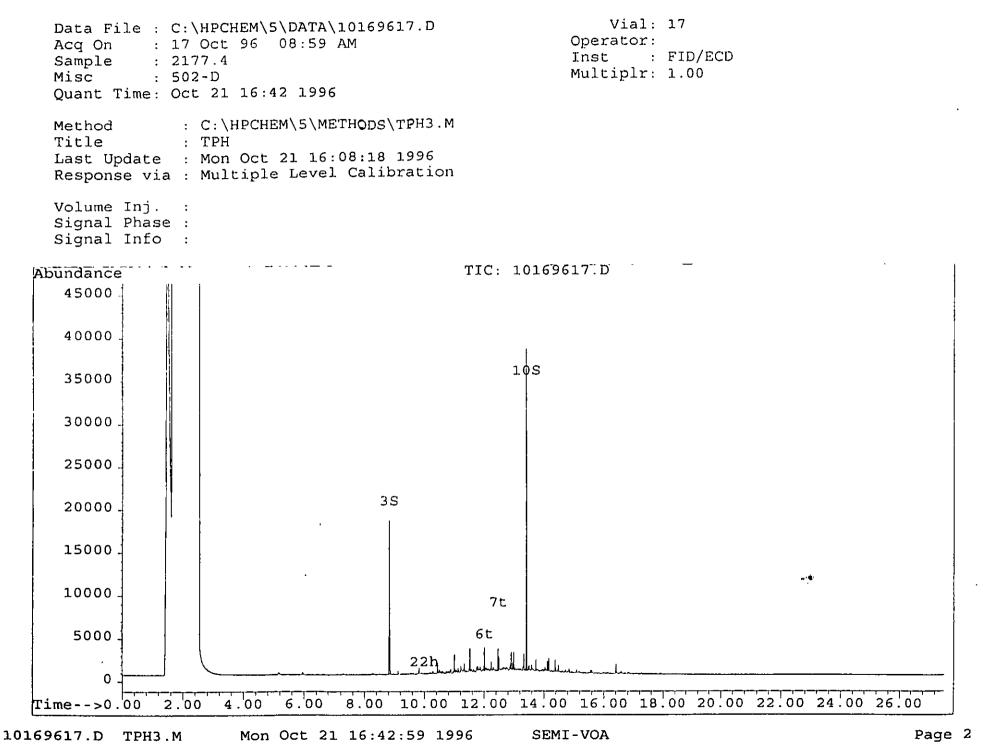


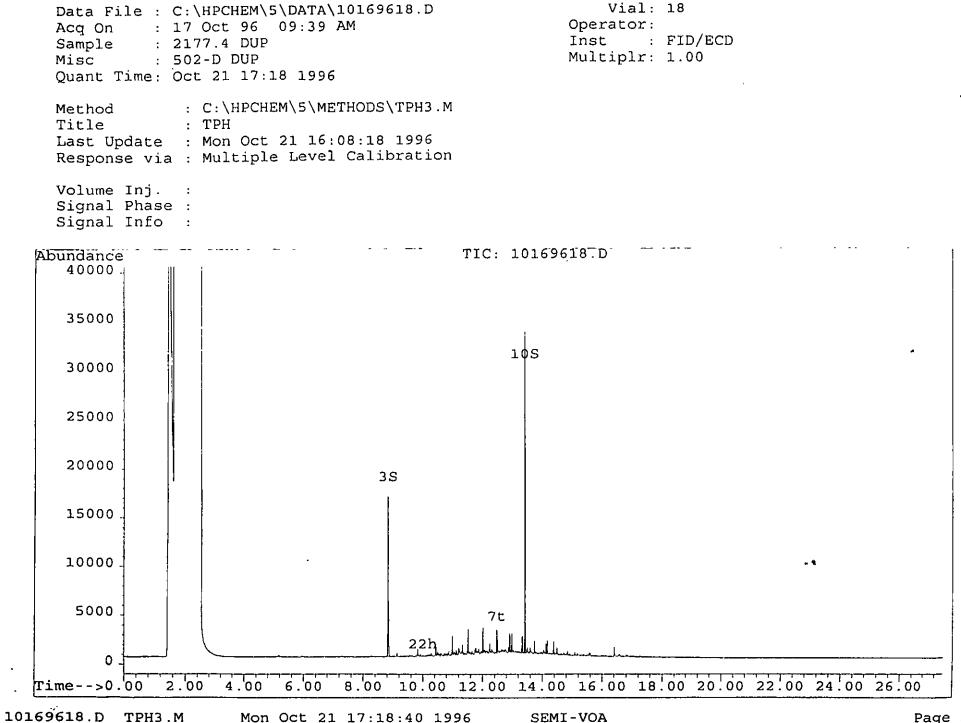




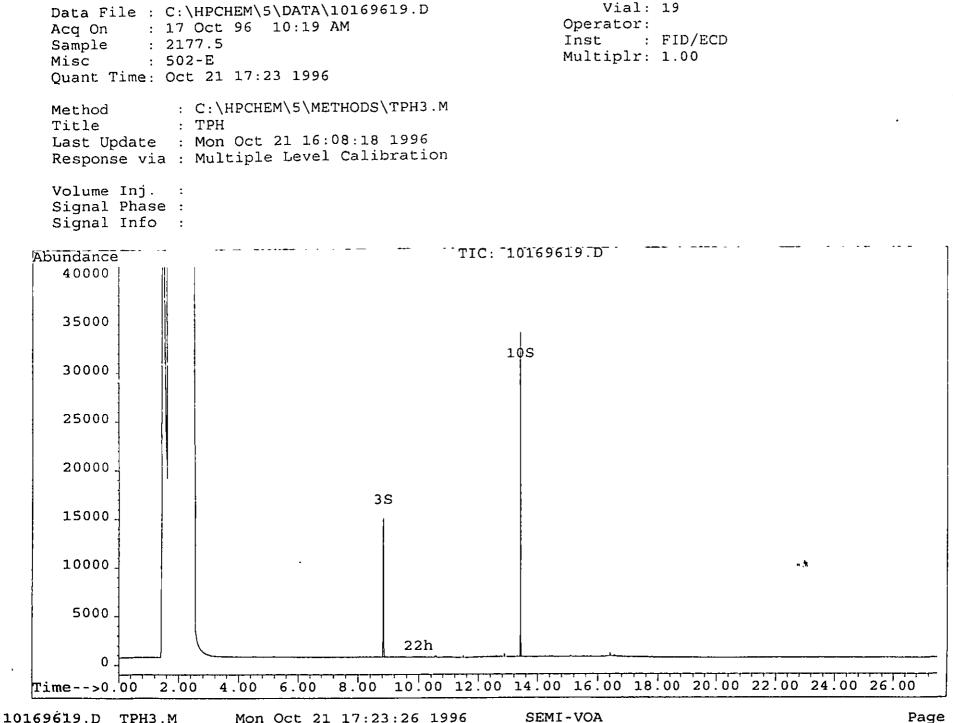


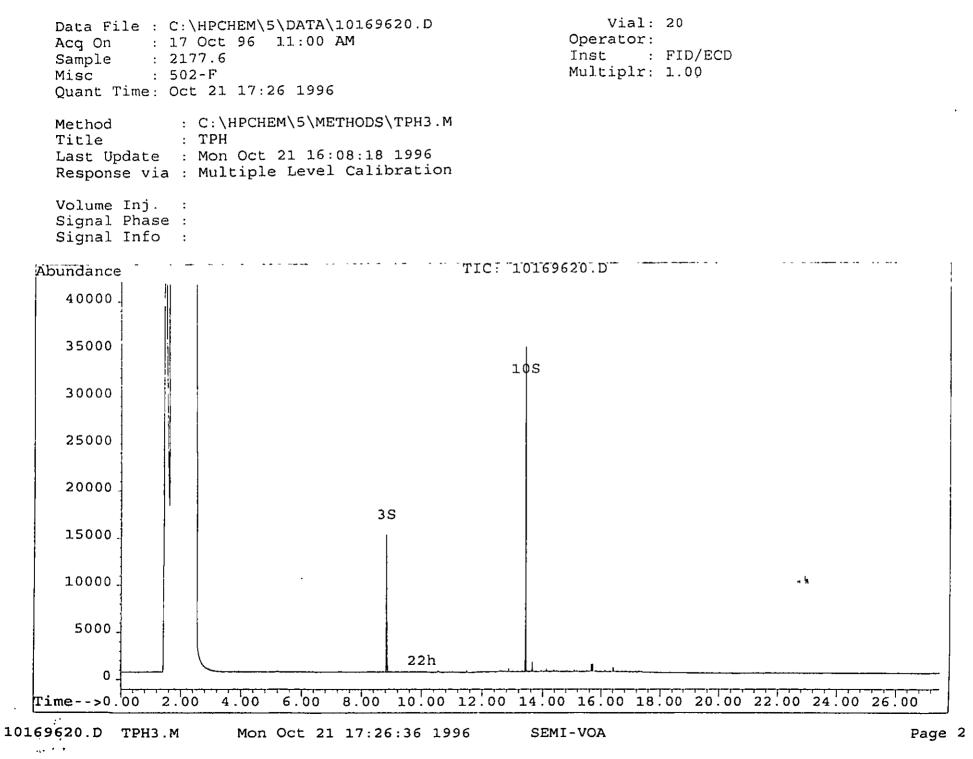
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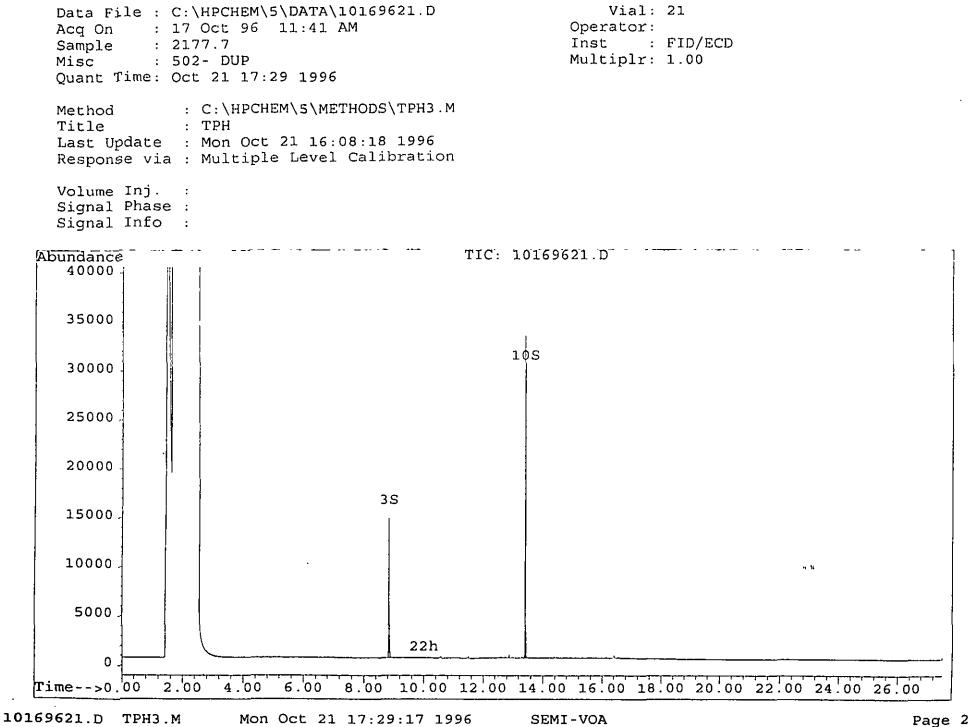


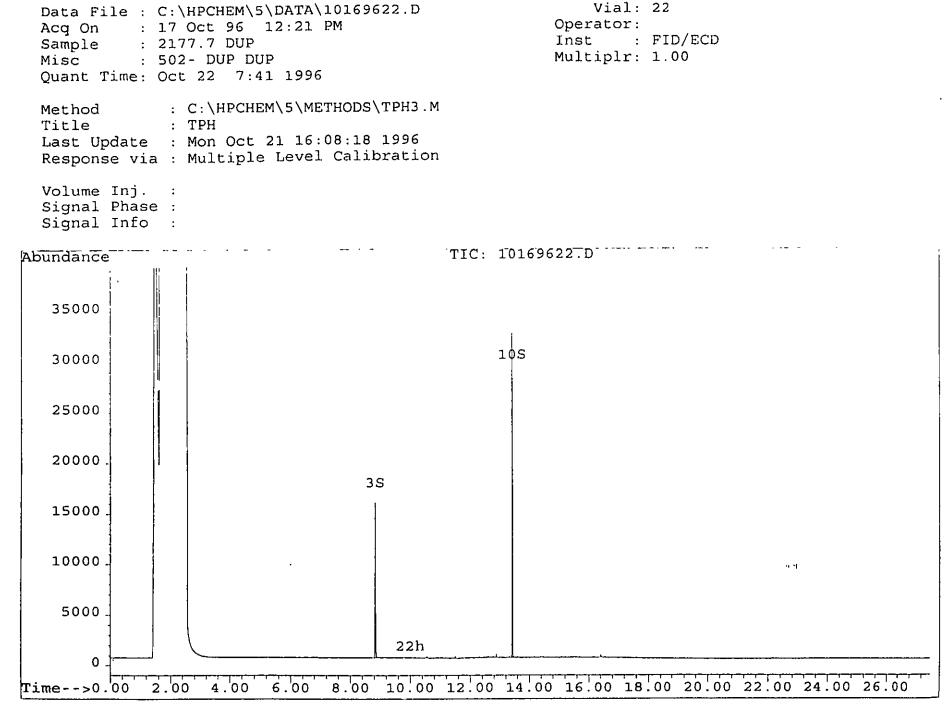


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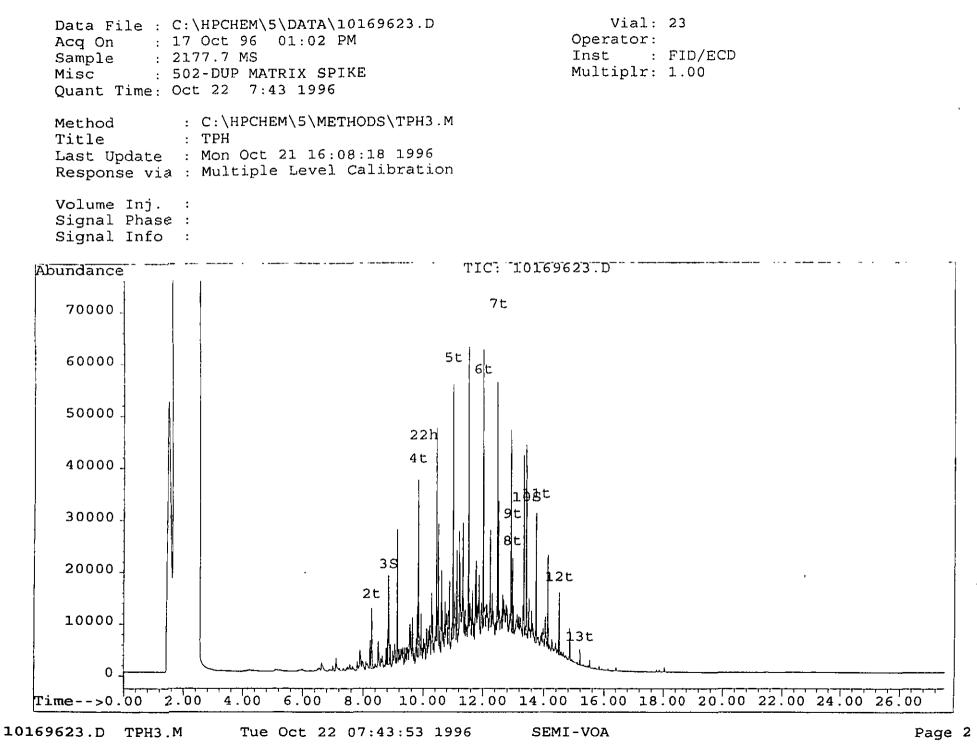


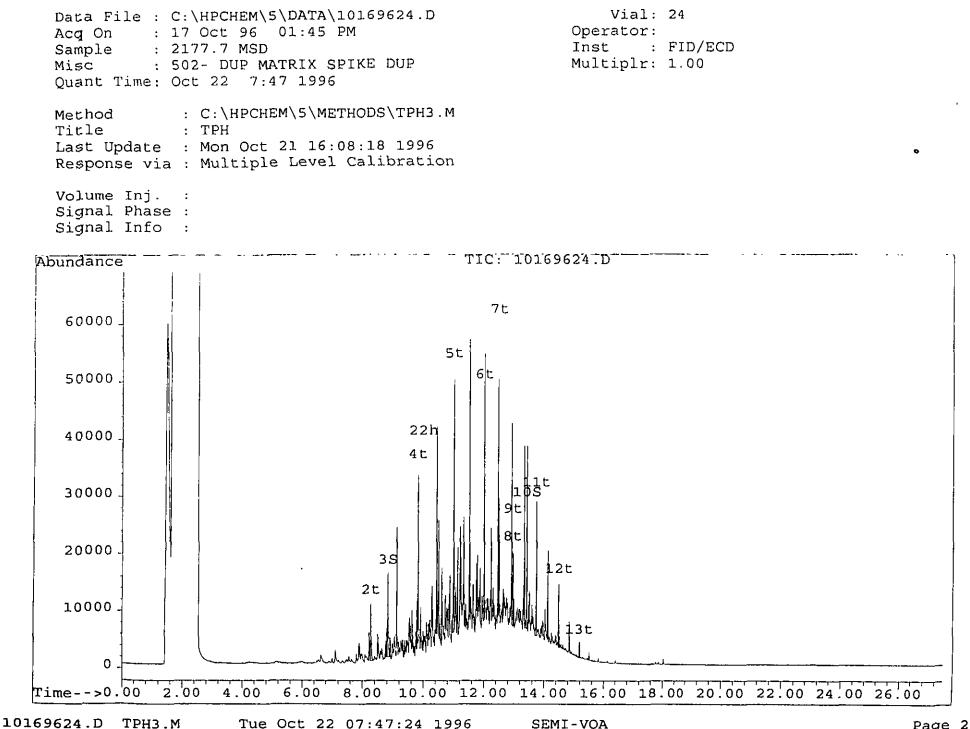




Tue Oct 22 07:42:07 1996 SEMI-VOA

10169622.D TPH3.M





O PHC	Conformance,	Non-conformance	Summary	Report
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	<u>No</u>
1. Method Detection Limits provided.	
2. Method Blank Contamination - If yes, list the sample and the corresponding concentrations in each blank.	$\swarrow$
3. Matrix Spike Results Summary Meet Criteria. (If not met, list the sample and corresponding recovery which falls outside the acceptable range.	
4. Duplicate Results Summary Meet Criteria. (If not met, list the sample and corresponding recovery which falls outside the acceptable range'.	
5. IR Spectra submitted for standards, blanks, 1 samples	
<ol> <li>Chromatograms submitted for standards, blanks, and samples if GC fingerprinting was conducted.</li> </ol>	
7. Analysis holding time met.	
(If not met, list number of days exceeded for each sample)	
Additional Comments:	

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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.

Daniel K. Wright Laboratory Manager

<u>Yes</u>

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

Client: U.S. Army	Lab. ID #: 2177.17
DPW, SELFM-PW-EV	Sample Rec'd: 10/11/96
Bldg. 173	Analysis Start: 10/11/96
Ft. Monmouth, NJ 07703	Analysis Comp: 10/11/96

Analysis: Munsel

.

Lab ID#	Soil Color	
2177.1	7.5YR 4/4 Brown	
2177.2	7.5YR 4/4 Brown	
2177.3	7.5YR 5/6 Strong brown	
2177.4	7.5YR 4/4 Brown	
2177.5	7.5YR 4/4 Brown	
2177.6	7.5YR 4/4 Brown	
2177.7	7.5YR 4/4 Brown	

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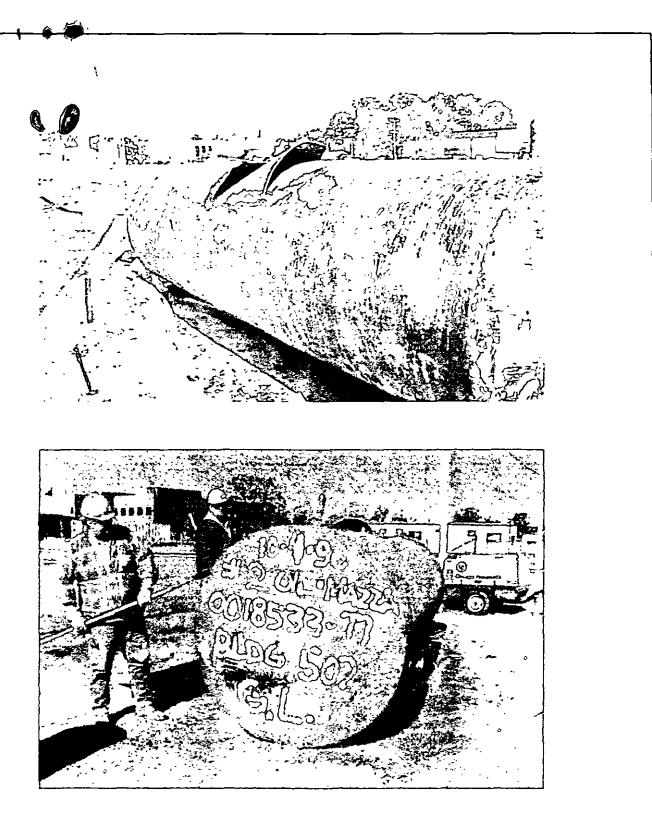
Daniel K. Wright Laboratory Director

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APPENDIX F

PHOTOGRAPHS



December 1997

# PHOTOGRAPHIC LOG

UST No. 81533-77

Building 502 Main Post-East Fort Monmouth



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