United States Army

Fort Monmouth, New Jersey

Underground Storage Tank Closure and Site Investigation Report

Building 1220
Rittko Avenue & North Drive
Main Post

NJDEP UST Registration No. 81533-175 thru 183 Spill Case No. 97-12-31-1154-44

June 1998

UNDERGROUND STORAGE TANK CLOSURE AND SITE INVESTIGATION REPORT

BUILDING 1220

RITTKO AVENUE

MAIN POST

NJDEP UST REGISTRATION NO. 81533-175 THRU 183

SPILL CASE NO. 97-12-31-1154-44

JUNE 1998

PROJECT NO.: 93-0945 CONTRACT NO.: DAAB08-97-C-0027

PREPARED FOR:

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

PREPARED BY:

ENVIRONMENTAL CONTROL TECHNOLOGIES, INCORPORATED
1110 DEVON COURT
MAHWAH, NEW JERSEY 07430

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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	3 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 2.4 GROUNDWATER SAMPLING	6 6 7
3.0 CONCLUSIONS AND RECOMMENDATIONS	8
3.1 SOIL SAMPLING RESULTS 3.2 GROUNDWATER SAMPLING RESULTS 3.3 CONCLUSIONS AND RECOMMENDATIONS	8

TABLE OF CONTENTS (CONTINUED)

TABLES

Table 1 Summary of Post-Excavation Sampling Activities

Table 2 Post-Excavation Soil Sampling Results

Table 3 Groundwater Sampling Results

FIGURES

Figure 1 Site Location Map

Figure 2 Site Plan

Figure 3 Soil Sampling Location Map

APPENDICES

Appendix A Figures

Appendix B Site Assessment Summary/NJDEP Standard Reporting Form

Appendix C Waste Manifest

Appendix D UST Disposal Certificate

Appendix E Contaminated Soil Weigh Tickets

Appendix F Soil Analytical Data Package

Appendix G Groundwater Analytical Data Package

EXECUTIVE SUMMARY

UST Closure

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Between January 6, 1998, and January 26, 1998, nine steel underground storage tanks (USTs) were closed at U.S. Army Fort Monmouth, Fort Monmouth, New Jersey, by removal in accordance with the Technical Regulations for the New Jersey Department of Environmental Protection (NJDEP). The USTs, NJDEP Registration Nos. 081533-175 thru 183, were located immediately behind Building 1220, on Rittko Avenue in the Main Post area of U.S. Army, Fort Monmouth. UST Nos. 081533-175 thru 183 were all 30,000-gallon No. 6 heating oil USTs. The UST fill ports were located remotely from the tanks, along Rittko Avenue. The tank closures were performed by Environmental Control Technologies, Inc. (ECTI).

Site Assessment - Soil

The site assessment was performed by ECTI in accordance with the NJDEP *Technical Requirements for Site Remediation* (N.J.A.C. 7:26E) and the NJDEP *Field Sampling Procedures Manual.* The site assessment activities conducted by ECTI were overseen by U.S. Army personnel. Soils surrounding the tank were screened visually and with air monitoring equipment for evidence of contamination. Following removal, each UST was inspected for corrosion holes. Some holes were noted in one UST (designated as Fuel Oil Tank No. 9) and some of its product piping. Evidence of potentially contaminated soils were observed surrounding each of the former tanks. Most of that contamination appeared to be the result of historic overfilling of the tanks.

On December 30, 1997, approximately 162 cubic yards of potentially contaminated soils were removed from the excavation. An additional 90 cubic yards of potentially contaminated soils were removed on January 5, 1998, followed by 123 cubic yards removed on January 21, 1998, and 295 cubic yards removed on January 30, 1998.

On January 29, 1998, following removal of all soil from the concrete hold-down pad beneath Fuel Oil Tanks Nos. 6, 7, 8, and 9, the integrity of the concrete pad was examined by U.S. Army personnel and found to be in good condition. Following that investigation, six soil samples were collected around the perimeter of the concrete pad, in accordance with N.J.A.C.7:26E-3.9(b)1. These soil samples were designated PS-1 through PS-6. The samples were collected at a depth of approximately 15 feet below ground surface (BGS). Groundwater was present at approximately 15'-9" BGS. Since all soil in the area of the product piping had been removed to the bottom of the excavation, there was no soil to be sampled for piping residues. All samples were analyzed for total petroleum hydrocarbons (TPHC) by the U.S. Army, Fort Monmouth Environmental Laboratory (NJDEP Certification No. 13461).

On January 30, 1998, U.S. Army personnel returned to the area and drilled three holes through the concrete pad. Following drilling through the concrete, soil samples were collected by U.S. Army personnel from immediately beneath the concrete pad at each of

the three locations. Each of the three samples were analyzed for total petroleum hydrocarbons (TPHC) by the U.S. Army, Fort Monmouth Environmental Laboratory.

On February 6, 1998, following removal of all soil from the concrete hold-down pad beneath Fuel Oil Tanks Nos. 1, 2, 3, 4, and 5, the integrity of the concrete pad was again examined by U.S. Army personnel and found to be in good condition. Following that investigation, six soil samples were collected around the perimeter of that concrete pad, in accordance with N.J.A.C. 7:26E-3.9(b) 1. These soil samples were designated PE-1 through PE-6. The samples were collected at a depth of approximately 15 feet below ground surface (BGS). Groundwater was present at approximately 15'-9" BGS. Since all soil in the area of the product piping had been removed to the bottom of the excavation, there was no soil to be sampled for piping residues. All samples were analyzed for total petroleum hydrocarbons (TPHC) by the U.S. Army, Fort Monmouth Environmental Laboratory.

Findings - Soil

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All post-excavation soil samples collected from the perimeter of the UST concrete hold-down pads contained TPHC concentrations below the NJDEP residential direct contact total organic contaminants soil cleanup criteria of 10,000 milligrams per kilogram (mg/kg) (N.J.A.C. 7:26D and revisions dated February 3, 1994). Samples PS-1 through PS-6 contained levels of TPHC ranging in concentration from ND to 712.28 mg/kg. Samples PE-1 through PE-6 contained levels of TPHC ranging in concentration from ND to 249.60 mg/kg. The minimum detection levels (MDLs) for all soil samples were close to or greater than 200 mg/kg, as a result, no base/neutral analyses were conducted on any of the soil samples.

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 USTs or their associated piping.

Site Restoration

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

Site Assessment Guality Assurance

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

Site Assessment - Ground Water

In response to the observation of potentially contaminated soil and the potential of groundwater contamination, two (2) groundwater samples were collected at Building 1220. On November 6, 1998, and December 3, 1998, Building 1220 was sampled for volatile organic compounds calibrated for xylene plus 15 tentatively identified compounds (VOC's), and semivolatile organic compounds plus 15 tentatively identified compounds (SVOC's). All groundwater analytical results were either below the detection limit or in compliance with the New Jersey Ground Water Quality Criteria (GWQC).

No further action is proposed in regard to the closure and site assessment of UST No. 81533-175 thru 183 at Building 1220.

1.0 UNDERGROUND STORAGE TANK DECOMMISSIONING ACTIVITIES

1.1 OVERVIEW

Nine underground storage tanks (USTs) were closed at Building 1220, U.S. Army Fort Monmouth, Fort Monmouth, New Jersey, between January 6, 1998, and January 26, 1998. The USTs, NJDEP Registration Nos. 081533-175 thru 183, were located immediately behind Building 1220, on Rittko Avenue in the Main Post area of U.S. Army, Fort Monmouth. Refer to site location map on Figure 1. This report presents the results of the DPW's implementation of a UST Decommissioning/Closure Plan. The USTs were each steel 30,000-gallon tanks containing No. 6 heating oil.

Decommissioning activities for UST Nos. 08 1533-175 thru 183 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 were posted onsite for inspection. Environmental Control Technologies, Incorporated (ECTI), the contractor that conducted the decommissioning activities, is registered and certified by the NJDEP for performing UST closure activities (Certification No. US00617).

Based on an inspection of the USTs, visual evaluation and field screening of subsurface soils, and analytical results of collected soil samples, the DPW has concluded that an historical discharge was associated with one or more of the USTs and associated piping. On December 31, 1997, a spill was reported to the NJDEP "Hotline" for UST No. 081533-183 and was assigned Spill Case No. 97-12-31-1154-44. This spill case number was also assigned to Building 1220.

This UST Closure and Site Investigation Report has been prepared by Environmental Control Technologies, Inc. The applicable NJDEP-BUST regulations at the date of closure were the *Requirements for Underground Storage Tank Systems* (N.J.A.C. 7:14B-1 et seg. Effective December 21,1987 with all revisions through November 17, 1997).

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

1.2 SITE DESCRIPTION

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Building 1220 is located in the eastern portion of the Main Post area of Fort Monmouth, as shown on Figure 1. USTs No. 081533-175 thru 183 were located on the rear (north) of Building 1220 and appurtenant piping ran approximately 15 feet to 40 feet north from an enclosed piping chamber adjacent to Building 1220. The fill port area was located due east of the tanks, along Rittko Avenue. The distance from the remote fill points to the tanks ranged from approximately 60 feet to approximately 95 feet. 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 1220. 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

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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 have been noted in borings installed throughout Fort Monmouth. Therefore the direction of shallow groundwater should be determined on a case by case basis.

1.3 HEALTH AND SAFETY

Before, during, and after all decommissioning activities, hazards at the work site which may have posed a threat to the Health and Safety of all personnel who were involved with, or were affected by, the decommissioning of the UST system were minimized. All areas which posed, or may have been suspected to pose a vapor hazard were monitored by a qualified individual utilizing a photoionization detector (PID). 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

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- All underground obstructions (utilities, etc.) were marked out at the request of ECTI 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 a PID 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 was present during all Site Assessment activities.

1.4.2 Underground Storage Tank Excavation and Cleaning

Prior to UST decommissioning activities, surficial soil was removed to expose the UST and associated piping. All free product present in the piping was drained into the UST, and the UST was purged to remove vapors prior to cutting and removal of the piping. After removal of the associated piping, a manway was opened to allow for proper cleaning. The UST was completely emptied of all liquids prior to removal from the ground. Approximately 23,914 gallons of No. 2 heating oil was transported offsite for reuse by Fuel Tank Maintenance Service, Inc. An additional 1,500 gallons of oil contaminated water was transported by Fuel Tank Maintenance Service, Inc. to New York Oil Recovery, Inc., a NYDEC-approved petroleum recycling and disposal company located in Brooklyn, New York. Refer to Appendix C for copies of waste manifests.

The USTs were cleaned prior to removal from the excavation, in accordance with the NJDEP-BUST regulations. After the USTs were removed from the excavation, they were staged on polyethylene sheeting, examined for holes, and cut up on site for disposal. Some holes were observed in some tanks during the inspection by the Sub-Surface Evaluator. Soils surrounding the USTs were screened visually and with a PID for evidence of contamination. Potentially contaminated soils were observed within the excavation.

1.5 UNDERGROUND STORAGE TANK TRANSPORTATION AND DISPOSAL

The tanks were cut up on site and transported by Neptune Scrap Metal Company to their yard for disposal in compliance with all applicable regulations and laws. See Appendix D for UST Disposal Certificates.

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

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

1.6 MANAGEMENT OF EXCAVATED SOILS

Based on weight tickets from the weigh station at Fort Monmouth, approximately 670 cubic yards of potentially contaminated soils were removed from the excavation and staged behind Building 490, at the direction of U.S. Army personnel. These potentially contaminated soils were stockpiled on and covered with polyethylene sheets. Soils that did not exhibit signs of contamination were used as backfill following removal of the UST.

2.0 SITE INVESTIGATION ACTIVITIES

2.1 OVERVIEW

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The Site Investigation was managed by U.S. Army DPW personnel and carried out by ECTI. All TPHC analyses were performed and reported by U.S. Army Fort Monmouth Environmental Laboratory, Inc., an NJDEP-certified testing laboratory. All sampling was performed under the direct supervision of an 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 Technical Regulations (N.J.A.C. 7:26E), which was the applicable regulation at the time of the closures.

The following Parties participated in Closure and Site Investigation Activities.

Closure Contractor: Environmental Control Technologies, Inc. (ECTI)

Closure Supervisor: Harry H. Elias, P.E.

Phone Number: (201) 236-8448 NJDEP Certification No.: 10510

 Subsurface Evaluator: Dinkerrai M. Desai Employer: U.S. Army, Fort Monmouth

Plant Advantage (200) 500 4475

Phone Number: (908) 532-1475 NJDEP Certification No.: E0002266

Analytical Laboratory: U.S. Army Fort Monmouth Environmental Laboratory

Contact Person: Brian K. McKee Phone Number: (908) 532-4359

NIDEP Company Certification No.: 13461

2.2 FIELD SCREENING/MONITORING

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

2.3 SOIL SAMPLING

Due to field screening of subsurface soils, approximately 162 cubic yards of potentially contaminated soils were removed from the excavation on December 30, 1997. An additional 90 cubic yards of potentially contaminated soils were removed on January 5, 1998, followed by 123 cubic yards removed on January 21, 1998, and 295 cubic yards removed on January 30, 1998.

On January 29, 1998, following removal of all soil from the concrete hold-down pad beneath Fuel Oil Tanks Nos. 6, 7, 8, and 9, the integrity of the concrete pad was examined by U.S.

Army personnel and found to be in good condition. Following that investigation, six soil samples were collected around the perimeter of the concrete pad, in accordance with N.J.A.C. 7:26E-3.9(b)1. These soil samples were designated PS-1 through PS-6. The samples were collected at a depth of approximately 15 feet below ground surface (BGS). Groundwater was present at approximately 15'-9" BGS. Since all soil in the area of the product piping had been removed to the bottom of the excavation, there was no soil to be sampled for piping residues. All samples were analyzed for total petroleum hydrocarbons (TPHC) by the U.S. Army, Fort Monmouth Environmental Laboratory (NJDEP Certification No. 13461).

On January 30, 1998, U.S. Army personnel returned to the area and drilled three holes through the concrete pad. Following drilling through the concrete, soil samples were collected by U.S. Army personnel from immediately beneath the concrete pad at each of the three locations. Each of the three samples were analyzed for total petroleum hydrocarbons (TPHC) by the U.S. Army, Fort Monmouth Environmental Laboratory.

On February 6, 1998, following removal of all soil from the concrete hold-down pad beneath Fuel Oil Tanks Nos. 1, 2, 3, 4, and 5, the integrity of the concrete pad was again examined by U.S. Army personnel and found to be in good condition. Following that investigation, six soil samples were collected around the perimeter of that concrete pad, in accordance with N.J.A.C. 7:26E-3.9(b)1. These soil samples were designated PE-1 through PE-6. The samples were collected at a depth of approximately 15 feet below ground surface (BGS). Groundwater was present at approximately 15'-9" BGS. Since all soil in the area of the product piping had been removed to the bottom of the excavation, there was no soil to be sampled for piping residues. All samples were analyzed for total petroleum hydrocarbons (TPHC) by the U.S. Army, Fort Monmouth Environmental Laboratory.

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

2.4 GROUNDWATER SAMPLING

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On November 6, 1998, and December 3, 1998, Building 1220 was sampled for volatile organic compounds calibrated for xylene plus 15 tentatively identified compounds (VOC's), and semivolatile organic compounds plus 15 tentatively identified compounds (SVOC's). Sampling and analysis were performed in accordance with the NJDEP *Field Sampling Procedures Manual* and the *Technical Requirements For Site Remediation*. Refer to Appendix G for the field sampling documentation.

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 SOIL SAMPLING RESULTS

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To evaluate soil conditions following removal of the USTs and their associated piping, post-excavation soil samples were collected from a total of 12 locations. The first six samples (numbered PS-1 thru PS-6) were collected around the perimeter of the concrete hold-down pad beneath Tanks 6 thru 9 on January 29, 1998. The final six samples (numbered PE-1 thru PE-6) were collected around the perimeter of the concrete hold-down pad beneath Tanks 1 thru 5 on February 6, 1998. No excessive TPHC results were found among any of these samples. 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. The analytical data package is provided in Appendix F.

All post-excavation soil samples collected from the perimeter of the hold-down pads in the UST excavation, including any piping associated with the former USTs at Building 1220, contained TPHC concentrations below the NJDEP residential direct contact total organic contaminants soil cleanup criteria of 10,000 milligrams per kilogram (mg/Kg) (N.J.A.C. 7:26D and revisions dated February 3, 1994). Among the PS series of soil samples, TPHC concentrations ranged from ND (samples PS-1 and PS-4) to 712.28 mg/Kg (sample PS-2). Among the PE series of soil samples, TPHC concentrations ranged from ND (samples PE-1, PE-2, and PE-5) to 249.60 mg/Kg (sample PE-6). According to the NJDEP Technical Regulations (N.J.A.C. 7:26E-2. 1(d) and Table 2-1), samples collected for TPHC analyses from excavations which contained USTs holding No. 6 heating oil must analyze one sample in four which contain greater than 100 mg/Kg TPHC for polynuclear aromatic hydrocarbons (PAHs). However, because the minimum detection levels (MDLs) for all soil samples collected were close to or greater than 200 mg/Kg, no PAH analyses were conducted on any of the soil samples.

3.2 GROUNDWATER SAMPLING RESULTS

The sample collected from Building 1220 on November 6, 1998, contained trichlorofluoromethane at 8.51 ug/l and acetone at 7.47 ug/l. No other compounds were detected.

The sample collected from Building 1220 on December 3, 1998, contained trichlorofluoromethane at 39.87 ug/l and bis(2-ethylhexyl)phthalate at 2.06 ug/l. No other compounds were detected. Bis(2-ethylhexyl)phthalate was detected in the field blank at a concentration of 1.89 ug/l. No other compounds were detected in the field blank.

A summary of the analytical results and comparison to the NJDEP groundwater cleanup criteria is provided in Table 3. The analytical data package is provided in Appendix G. The full data package, including quality control, is on file at U.S. Fort Monmouth, DPW.

Groundwater samples collected on November 6, 1998, and December 3,1998, were either below the detection limit or in compliance with the New Jersey Ground Water Quality Criteria (GWQC).

3.3 CONCLUSIONS AND RECOMMENDATIONS

The analytical results for all post-excavation soil samples collected from the UST closure excavation at Building 1220 were below the NJDEP soil cleanup criteria for total organic contaminants.

Based on the post-excavation sampling results, soil 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.

Based on the analytical results of the groundwater samples collected at Building 1220 on November 6, 1998, and December 3, 1998, groundwater quality at Building 1220 was either below the detection limit or in compliance with the New Jersey Ground Water Quality Criteria (GWQC).

No further action is proposed in regard to the closure and site assessment of UST No. 81533-175 thru 183 at Building 1220.

TABLES

TABLE 1

SUMMARY OF POST-EXCAVATION SAMPLING ACTIVITIES
BUILDING 1220, MAIN POST AREA
FORT MONMOUTH, NEW JERSEY

Page 1 of 3

Sample ID	Date of Collection	Date Analysis Started	Matrix	Sample Type	Analytical Parameters*	NJDEP Method
PS-1	1/29/98	2/2/98	Soil	Post-Excavation	ТРНС	OQA-QAM-025
PS-2	1/29/98	2/2/98	Soil	Post-Excavation	TPHC	OQA-QAM-025
PS-3	1/29/98	2/2/98	Soil	Post-Excavation	TPHC	OQA-QAM-025
PS-4	1/29/98	2/2/98	Soil	Post-Excavation	TPHC	OQA-QAM-025
PS-5	1/29/98	2/2/98	Soil	Post-Excavation	TPHC	OQA-QAM-025
PS-6	1/29/98	2/2/98	Soil	Post-Excavation	TPHC	OQA-QAM-025
HOLE#1	1/29/98	2/2/98	Soil	Post-Excavation	TPHC	OQA-QAM-025
HOLE#2	1/29/98	2/2/98	Soil	Post-Excavation	TPHC	OQA-QAM-025
HOLE#3	1/29/98	2/2/98	Soil	Post-Excavation	TPHC	OQA-QAM-025

Note:

* TPHC Total Petroleum Hydrocarbons

TABLE 1

SUMMARY OF POST-EXCAVATION SAMPLING ACTIVITIES
BUILDING 1220, MAIN POST AREA
FORT MONMOUTH, NEW JERSEY

Page 2 of 3

Sample ID	Date of Collection	Date Analysis Started	Matrix	Sample Type	Analytical Parameters*	NJDEP Method
PE-1	1/29/98	2/2/98	Soil	Post-Excavation	ТРНС	OQA-QAM-025
PE-2	1/29/98	2/2/98	Soil	Post-Excavation	TPHC	OQA-QAM-025
PE-3	1/29/98	2/2/98	Soil	Post-Excavation	TPHC	OQA-QAM-025
PE-4	1/29/98	2/2/98	Soil	Post-Excavation	TPHC	OQA-QAM-025
PE-5	1/29/98	2/2/98	Soil	Post-Excavation	TPHC	OQA-QAM-025
PE-6	1/29/98	2/2/98	Soil	Post-Excavation	TPHC	OQA-QAM-025

Note:

* TPHC Total Petroleum Hydrocarbons

TABLE 1 SUMMARY OF SAMPLING ACTIVITIES **BUILDING 1220, MAIN POST AREA** FORT MONMOUTH, NEW JERSEY

Page 3 of 3

Sample ID	Date of Collection	Date Analysis Started	Matrix	Sample Type	Analytical Parameters*	Sampling Method**
4035.07	11/6/98	11/10/98	Aqueous	Groundwater	VOCs, SVOCs	PPNDP
4035.08	11/6/98	11/18/98	Aqueous	Groundwater	VOCs, SVOCs	PPNDP
4107.05	12/3/98	12/8/98	Aqueous	Groundwater	VOCs, SVOCs	PPNDP
4107.06	12/3/98	12/18/98	Aqueous	Groundwater	VOCs, SVOCs	PPNDP

Note:

*VOCs: *SVOCs: Volatile Organic Compounds plus 15 tentatively identified compounds Semivolatile organic compounds plus 15 tentatively identified compounds Passively Placed Narrow Diameter Point

**PPNDP:

TABLE 2 PAGE 1 OF 2

POST-EXCAVATION SOIL SAMPLING RESULTS **BUILDING 1220** FORT MONMOUTH, NEW JERSEY

Sample ID/Depth	Sample Laboratory ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (mg/kg)	Compound of Concern	Result (mg/kg)	NJDEP Soil Cleanup Criteria * (mg/kg)	Exceeds Cleanup Criteria
PS - 1	3303.01	1-29-98	2-2-98	Total Solid			83.82 %	N/A	
15'-0" to 15'-6"				TPHC	183	yes	ND	10,000	
PS - 2	3303.02	1-29-98	2-2-98	Total Solid			82.00 %	N/A	
15'-0" to 15'-6"				TPHC	191	yes	712.28	10,000	
PS-3"	3303.03	1-29-98	2-2-98	Total Solid			72.37 %	N/A	
15'-0" to 15'-6"				TPHC	204	yes	280.63	10,000	
PS-4	3303.04	1-29-98	2-2-98	Total Solid			74.73 %	N/A	
15'-0" to 15'-6"				TPHC	207	yes	ND	10,000	
PS-5	3303.05	1-29-98	2-2-98	Total Solid			81.20 %	N/A	
15'-0" to 15'-6"				TPHC	181	yes	511.31	10,000	
PS-6"	3303.06	1-29-98	2-2-98	Total Solid			78.80 %	N/A	
15'-0" to 15'-6"				TPHC	194	yes	431.79	10,000	
Hole #1	3307.01	1-30-98	2-2-98	Total Solid			75.64 %	N/A	
16'-0" to 16'-6"				TPHC	203	yes	476.63	10,000	
Hole #2	3307.02	1-30-98	2-2-98	Total Solid		,	70.24 %	N/A	
16'-0" to 16'-6"				TPHC	222	yes	ND	10,000	
Hole #3	3307.03	1-30-98	2-2-98	Total Solid			78.70 %	N/A	
16'-0" to 16'-6"				TPHC	193	yes	ND	10,000	

Notes:

Cleanup criteria for total organics Not applicable

N/A

Does not exceed criteria TPHC Total Petroleum Hydrocarbons

None Detected ND

TABLE 2 PAGE 2 OF 2

POST-EXCAVATION SOIL SAMPLING RESULTS BUILDING 1220 FORT MONMOUTH, NEW JERSEY

Sample ID/Depth	Sample Laboratory ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (mg/kg)	Compound of Concern	Result (mg/kg)	NJDEP Soil Cleanup Criteria * (mg/kg)	Exceeds Cleanup Criteria
PE - 1	3323.01	2-6-98	2-7-98	Total Solid			80.78 %	N/A	
15'-0" to 15'-6"				TPHC	187	yes	ND	10,000	
PE - 2	3323.02	2-6-98	2-7-98	Total Solid			79.80 %	N/A	
15'-0" to 15'-6"				TPHC	196	yes	ND	10,000	
PE-3"	3323.03	2-6-98	2-7 - 98	Total Solid			79.71 %	N/A	
15'-0" to 15'-6"				TPHC	192	yes	196.51	10,000	
PE-4	3323.04	2-6-98	2-7-98	Total Solid			70.50 %	N/A	
15'-0" to 15'-6"	•			TPHC	219	yes	240.23	10,000	
PE-5	3323.05	2-6-98	2-7-98	Total Solid			78.80%	N/A	
15'-0" to 15'-6"				TPHC	195	yes	ND	10,000	
PE-6"	3323.06	2-6-98	2-7-98	Total Solid			75.75 %	N/A	
15'-0" to 15'-6"				TPHC	200	yes	249.60	10,000	

Notes:

Cleanup criteria for total organics

N/A Not applicable

-- Does not exceed criteria
- TPHC Total Petroleum Hydrocarbons

ND None Detected

Table 3 **VOLATILE ORGANICS ANALYSIS DATA SHEET**

Lab Name:

FMETL

NJDEP#

<u>13461</u>

Matrix: (soil/water) WATER

Date Sampled:

11/6/98

Location:

<u>1220</u>

Lab Sample ID: 4035.01(Trip Blank)

CAS NO.	COMPOUND NAME	MDL	RESULTS	QUALIFIER	REGULATORY	EXCEEDS
	,	(ug/L)	· · · · · · · · · · · · · · · · · · ·	T	LEVEL(ug/L)	CRITERIA
107028	Acrolein	1.85	Not Detected		50	по
107131	Acrylonitrile	2.78	Not Detected		50	no
75650	tert-Butyl alcohol	8.52	Not Detected		nle	по
1634044	Methyl-tert-Butyl ether	0.16	Not Detected		nle	no
108203	Di-isopropyl ether	0.25	Not Detected		nle	no
	Dichlorodifluoromethane	1.68	Not Detected		nle	no
74-87-3	Chloromethane	1.16	Not Detected		30	no
75-01-4	Vinyl Chloride	1.06	Not Detected		5	no
74-83-9	Bromomethane	1.10	Not Detected		10	no
75-00-3	Chloroethane	1.01	Not Detected		nle	no
75-69-4	Trichlorofluoromethane	0.50	Not Detected		nle	no
75-35-4	1, 1-Dichloroethene	0.24	Not Detected		2	no
67-64-1	Acetone	1.36	Not Detected		700	no
75-15-0	Carbon Disulfide	0.46	Not Detected		nle	no
75-09-2	Methylene Chloride	0.24	Not Detected		2	no
156-60-5	trans-1,2-Dichloroethene	0.16	Not Detected		100	по
75-35-3	1,1-Dichloroethane	0.12	Not Detected		70	no
108-05-4	Vinyl Acetate	0.78	Not Detected		nle	no
78-93-3	2-Butanone	0.62	Not Detected	-	300	no
156-59-2	cis-1,2-Dichloroethene	0.17	Not Detected		10	по
67-66-3	Chloroform	0.30	Not Detected		6	по
75-55-6	1,1,1-Trichloroethane	0.23	Not Detected		30	по
56-23-5	Carbon Tetrachloride	0.47	Not Detected		2	no
71-43-2	Benzeze	0.23	Not Detected		1	no
107-06-2	1,2-Dichloroethane	0.18	Not Detected		2	no
79-01-6	Trichloroethene	0.23	Not Detected		ı	no
78-87-5	1, 2-Dichloropropane	0.40	Not Detected		ı	по
75-27-4	Bromodichloromethane	0.55	Not Detected	-	ı	no
110-75-8	2-Chloroethyl vinyl ether	0.65	Not Detected	-	nle	по
10061-01-5	cis-1,3-Dichloropropene	0.69	Not Detected	-	nle	no

Table 3 **VOLATILE ORGANICS ANALYSIS DATA SHEET**

Lab Name:

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FMETL

NJDEP#

<u>13461</u>

Matrix: (soil/water) WATER

Date Sampled:

11/6/98

Location:

<u>1220</u>

Lab Sample ID: 4035.01(Trip Blank)

-						
CAS NO.	COMPOUND NAME	MDL (ug/L)	RESULTS	QUALIFIER	REGULATORY LEVEL(ug/L)	EXCEEDS CRITERIA
108-10-1	4-Methyl-2-Pentanone	0.59	Not Detected		400	no
108-88-3	Toluene	0.37	Not Detected		1000	no
10061-02-6	trans-1,3-Dichloropropene	0.87	Not Detected	-	nle	по
79-00-5	1,1,2-Trichloroethane	0.48	Not Detected		3	no
127-18-4	Tetrachloroethene	0.32	Not Detected	-	1	по
591-78-6	2-Hexanone	0.71	Not Detected	-	nle	no
126-48-1	Dibromochloromethane	0.86	Not Detected	-	10	no
108-90-7	Chlorobenzene	0.39	Not Detected		4	no
100-41-4	Ethylbenzene	0.65	Not Detected		700	no
1330-20-7	m+p-Xylenes	1.14	Not Detected	-	nle	no
1330-20-7	o-Xylene	0.62	Not Detected	-	nle	no
100-42-5	Styrene	0.56	Not Detected	-	100	no
75-25-2	Bromoform	0.70	Not Detected	-	4	по
79-34-5	1,1,2,2-Tetrachloroethane	0.47	Not Detected		2	no
541-73-1	1,3-Dichlorobenzene	0.55	Not Detected		600	no
106-46-7	1,4-Dichlorobenzene	0.57	Not Detected		75	no
95-50-1	1,2-Dichlorobenzene	0.64	Not Detected	-	600	no

Table 3 VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:

FMETL

NJDEP#

13461

Matrix: (soil/water) WATER

Date Sampled:

11/06/98

Location:

<u>1220</u>

Lab Sample ID: 4035.02(Field Blank)

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CAS NO.	COMPOUND NAME	MDL (ug/L)	RESULTS	QUALIFIER	REGULATORY LEVEL(ug/L)	EXCEEDS CRITERIA
107028	Acrolein	1.85	Not Detected		50	по
107131	Acrylonitrile	2.78	Not Detected		50	no
75650	tert-Butyl alcohol	8.52	Not Detected	-	nle	no
1634044	Methyl-tert-Butyl ether	0.16	Not Detected		nle	no
108203	Di-isopropyl ether	0.25	Not Detected		nle	no
	Dichlorodifluoromethane	1.68	Not Detected		nle	no
74-87-3	Chloromethane	1.16	Not Detected	_	30	no
75-01-4	Vinyl Chloride	1.06	Not Detected	-	5	no
74-83-9	Bromomethane	1.10	Not Detected	-	10	no
75-00-3	Chloroethane	1.01	Not Detected		nle	no
75-69-4	Trichlorofluoromethane	0.50	Not Detected	-	піе	no
75-35-4	1, 1-Dichloroethene	0.24	Not Detected	-	2	no
67-64-1	Acetone	1.36	Not Detected		700	по
75-15-0	Carbon Disulfide	0.46	Not Detected		nle	no
75-09-2	Methylene Chloride	0.24	Not Detected		2	по
156-60-5	trans-1,2-Dichloroethene	0.16	Not Detected		100	no
75-35-3	1,1-Dichloroethane	0.12	Not Detected		70	no
108-05-4	Vinyl Acetate	0.78	Not Detected	-	nle	по
78-93-3	2-Butanone	0.62	Not Detected		300	no
156-59-2	cis-1,2-Dichloroethene	0.17	Not Detected	_	10	no
67-66-3	Chloroform	0.30	Not Detected		6	no
75-55-6	1,1,1-Trichloroethane	0.23	Not Detected		30	ņo
56-23-5	Carbon Tetrachloride	0.47	Not Detected		2	по
71-43-2	Benzeze	0.23	Not Detected		1	no
107-06-2	1,2-Dichloroethane	0.18	Not Detected		2	no
79-01-6	Trichloroethene	0.23	Not Detected		1	no
78-87-5	1, 2-Dichloropropane	0.40	Not Detected		1	no
75-27-4	Bromodichloromethane	0.55	Not Detected		1	по
110-75-8	2-Chloroethyl vinyl ether	0.65	Not Detected		лle	no
10061-01-5	cis-1,3-Dichloropropene	0.69	Not Detected		лlе	по

Table 3 VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:

FMETL

NJDEP#

<u>13461</u>

Matrix: (soil/water) WATER

Date Sampled:

11/06/98

Location:

<u>1220</u>

Lab Sample ID: 4035.02(Field Blank)

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CAS NO.	COMPOUND NAME	MDL (ug/L)	RESULTS	QUALIFIER	REGULATORY LEVEL(ug/L)	EXCEEDS CRITERIA
108-10-1	4-Methyl-2-Pentanone	0.59	Not Detected		400	no
108-88-3	Toluene	0.37	Not Detected		1000	no
10061-02-6	trans-1,3-Dichloropropene	0.87	Not Detected	-	nle	по
79-00-5	1,1,2-Trichloroethane	0.48	Not Detected	-	3	no
127-18-4	Tetrachloroethene	0.32	Not Detected		1	no
591-78-6	2-Hexanone	0.71	Not Detected		nle	no
126-48-1	Dibromochloromethane	0.86	Not Detected	_	10	no
108-90-7	Chlorobenzene	0.39	Not Detected	-	4	no
100-41-4	Ethylbenzene	0.65	Not Detected		700	no
1330-20-7	m+p-Xylenes	1.14	Not Detected		nle	no
1330-20-7	o-Xylene	0.62	Not Detected		nle	no
100-42-5	Styrene	0.56	Not Detected		100	no
75-25-2	Bromoform	0.70	Not Detected	-	4	no
79-34-5	1,1,2,2-Tetrachloroethane	0.47	Not Detected		2	no
541-73-1	1,3-Dichlorobenzene	0.55	Not Detected		600	no
106-46-7	1,4-Dichlorobenzene	0.57	Not Detected		75	no
95-50-1	1,2-Dichlorobenzene	0.64	Not Detected		600	no

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Table 3 VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:

FMETL

NJDEP#

<u>13461</u>

Matrix: (soil/water) WATER

Date Sampled:

11/6/98

Location:

<u>1220</u>

Lab Sample ID: 4035.07(Bldg 1220)

Date Sampi	cu. <u>11/0/20</u>		1220	2	mpie 1D. <u>4055.0</u>	.,, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
CAS NO.	COMPOUND NAME	MDL (ug/L)	RESULTS	QUALIFIER	REGULATORY LEVEL(ug/L)	EXCEEDS CRITERIA
107028	Acrolein	1.85	Not Detected		50	no
107131	Acrylonitrile	2.78	Not Detected		50	по
75650	tert-Butyl alcohol	8.52	Not Detected		nle	по
1634044	Methyl-tert-Butyl ether	0.16	Not Detected		nle	no
108203	Di-isopropyl ether	0.25	Not Detected		nle	no
	Dichlorodifluoromethane	1.68	Not Detected		nle	no
74-87-3	Chloromethane	1.16	Not Detected		30	no
75-01-4	Vinyl Chloride	1.06	Not Detected		5	no
74-83-9	Bromomethane	1,10	Not Detected		10	no
75-00-3	Chloroethane	1.01	Not Detected		nle	по
75-69-4	Trichlorofluoromethane	0.50	8.51		nle	по
75-35-4	1, 1-Dichloroethene	0.24	Not Detected		2	no
67-64-1	Acetone	1.36	7.47		700	no
75-15-0	Carbon Disulfide	0.46	Not Detected		nle	no
75-09-2	Methylene Chloride	0.24	Not Detected	-	2	no
156-60-5	trans-1,2-Dichloroethene	0.16	Not Detected		100	по
75-35-3	1,1-Dichloroethane	0.12	Not Detected	_	70	no
108-05-4	Vinyl Acetate	0.78	Not Detected		nle	no
78-93-3	2-Butanone	0.62	Not Detected		300	по
156-59-2	cis-1,2-Dichloroethene	0.17	Not Detected		10	no
67-66-3	Chloroform	0.30	Not Detected		6	no
75-55-6	1,1,1-Trichloroethane	0.23	Not Detected		30	no
56-23-5	Carbon Tetrachloride	0.47	Not Detected		2	no
71-43-2	Benzeze	0.23	Not Detected	_	1	по
107-06-2	1,2-Dichloroethane	0.18	Not Detected		2	no
79-01-6	Trichloroethene	0.23	Not Detected		ī	no
78-87-5	1, 2-Dichloropropane	0.40	Not Detected		i	no
75-27-4	Bromodichloromethane	0.55	Not Detected	_	1	no
110-75-8	2-Chloroethyl vinyl ether	0.65	Not Detected		nle	no
10061-01-5	cis-1,3-Dichloropropene	0.69	Not Detected		nle	по

Table 3 **VOLATILE ORGANICS ANALYSIS DATA SHEET**

Lab Name:

FMETL

NJDEP#

13461

Matrix: (soil/water) WATER

Date Sampled:

11/6/98

Location:

<u>1220</u>

Lab Sample ID: 4035.07(Bldg 1220)

_T -						
CAS NO.	COMPOUND NAME	MDL (ug/L)	RESULTS	QUALIFIER	REGULATORY LEVEL(ug/L)	EXCEEDS CRITERIA
108-10-1	4-Methyl-2-Pentanone	0.59	Not Detected		400	no
108-88-3	Toluene	0.37	Not Detected		1000	по
10061-02-6	trans-1,3-Dichloropropene	0.87	Not Detected	_	nle	no
79-00-5	1,1,2-Trichloroethane	0.48	Not Detected		3	no
127-18-4	Tetrachloroethene	0.32	Not Detected		1	no
591-78-6	2-Hexanone	0.71	Not Detected		nle	no
126-48-1	Dibromochloromethane	0.86	Not Detected		10	no
108-90-7	Chlorobenzene	0.39	Not Detected		4	по
100-41-4	Ethylbenzene	0.65	Not Detected		700	no
1330-20-7	m+p-Xylenes	1.14	Not Detected		nle	по
1330-20-7	o-Xylene	0.62	Not Detected		nle	no
100-42-5	Styrene	0.56	Not Detected		100	no
75-25-2	Bromoform	0.70	Not Detected		4	no
79-34-5	1,1,2,2-Tetrachloroethane	0.47	Not Detected		2	no
541-73-1	1,3-Dichlorobenzene	0.55	Not Detected		600	no
106-46-7	1,4-Dichlorobenzene	0.57	Not Detected	-	75	no
95-50-1	1,2-Dichlorobenzene	0.64	Not Detected	_	600	no

Table 3 SEMI-VOLATILE ANALYSIS DATA SHEET

Lab Name:

FMETL

NJDEP#

<u>13461</u>

Matrix: (soil/water) WATER

Date Sampled:

11/6/98

Location:

1220

Lab Sample ID: 4035.02(Field Blank)

CAS NO.	COMPOUND NAME	MDL (ug/L)	RESULTS	QUALIFIER	REGULATORY LEVEL(ug/L)	EXCEEDS CRITERIA
110-86-1	Pyridine	2.52	Not Detected		nle	по
62-75-9	N-nitroso-dimethylamine	2.64	Not Detected		20	no
62-53-3	Aniline	2.90	Not Detected	-	nle	no
111-44-4	bis(2-Chloroethyl)ether	2.45	Not Detected		10	no
541-73-1	1,3-Dichlorobenzene	2.65	Not Detected	-	600	во
106-46-7	1,4-Dichlorobenzene	2.50	Not Detected	-	75	по
100-51-6	Benzyl alcohol	2.09	Not Detected		nie	no
95-50-1	1,2-Dichlorobenzene	2.44	Not Detected	-	600	no
108-60-1	bis(2-chloroisopropyl)ether	2.96	Not Detected		300	no
621-64-7	n-Nitroso-di-n-propylamine	2.22	Not Detected		20	no
67-72-1	Hexachloroethane	2.59	Not Detected		10	по
98-95-3	Nitrobenzene	2.45	Not Detected	-	10	по
78-59-1	Isophorone	2.31	Not Detected		100	no
111-91-1	bis(2-Chloroethoxy)methane	2.54	Not Detected		nle	no
120-82-1	1,2,4-Trichlorobenzene	2.58	Not Detected	-	9	no
91-20-3	Naphthalene	3.03	Not Detected		nle	no
106-47-8	4-Chloroaniline	2.55	Not Detected	_	nle	no
87-68-3	Hexachlorobutadiene	0.64	Not Detected	-	1	no
91-57-6	2-Methylnaphthalene	2.49	Not Detected	_	nle	по
77-47-4	Hexachlorocyclopentadiene	1.59	Not Detected		50	no
91-58-7	2-Chloronaphthalene	2.15	Not Detected		nle	no
88-74-4	2-Nitroaniline	1.62	Not Detected		nle	по
131-11-3	Dimethylphthalate	2.74	Not Detected		7000	по
208-96-8	Acenaphthylene	2.35	Not Detected		nle	no

Table 3 SEMI-VOLATILE ANALYSIS DATA SHEET

Lab Name:

FMETL

NJDEP#

<u>13461</u>

Matrix: (soil/water) WATER

Date Sampled:

11/6/98

Location:

<u>1220</u>

Lab Sample ID: 4035.02(Field Blank)

•						
CAS NO.	COMPOUND NAME	MDL (ug/L)	RESULTS	QUALIFIER	REGULATORY LEVEL(ug/L)	EXCEEDS CRITERIA
606-20-2	2,6-Dinitrotoluene	1.54	Not Detected		nle	no
99-09-2	3-Nitroaniline	1.62	Not Detected		nle	no
83-32-9	Acenaphthene	1.98	Not Detected	-	400	no
132-64-9	Dibenzofuran	2.13	Not Detected	-	nle	no
121-14-2	2,4-Dinitrotoluene	1.22	Not Detected	-	10	no
84-66-2	Diethylphthalate	1.68	Not Detected		5000	во
86-73-7	Fluorene	1.93	Not Detected		300	no
7005-72-3	4-Chlorophenyl-phenylether	1.53	Not Detected	-	nle	no
100-01-6	4-Nitroaniline	2.70	Not Detected		nle	no
86-30-6	n-Nitrosodiphenylamine	1.73	Not Detected		20	no
103-33-3	Azobenzene	1.92	Not Detected	-	nle	no
101-55-3	4-Bromophenyl-phenylether	1.54	Not Detected		nle	по
118-74-1	Hexachlorobenzene	1.88	Not Detected		10	no
85-01-8	Phenanthrene	1.67	Not Detected	_	nle	no
120-12-7	Anthracene	1.79	Not Detected		2000	no
84-74-2	Di-n-butylphthalate	1.83	Not Detected		900	по
206-44-0	Fluoranthene	1.85	Not Detected		300	no
92-87-5	Benzidine	4.11	Not Detected	_	50	no
129-00-0	Pyrene	1.02	Not Detected	-	200	no
85-68-7	Butylbenzylphthalate	1.15	Not Detected	_	100	no
56-55-3	Benzo[a]anthracene	1.57	Not Detected		10	no
91-94-1	3,3'-Dichlorobenzidine	2.28	Not Detected		60	no
218-01-9	Chrysene	2.32	Not Detected		20	no
117-81-7	bis(2-Ethylhexyl)phthalate	1.29	Not Detected		30	по
117-84-0	Di-n-octylphthalate	1.30	Not Detected		100	по
205-99-2	Benzo[b]fluoranthene	1.31	Not Detected	-	10	no
207-08-9	Benzo[k]fluoranthene	1.57	Not Detected		2	no
50-32-8	Benzo[a]pyrene	1.36	Not Detected		20	no
193-39-5	Indeno[1,2,3-cd]pyrene	1.22	Not Detected		20	no
53-70-3	Dibenz[a,h]anthracene	3.12	Not Detected	_	20	no
191-24-2	Benzo[g,h,i]perylene	1.13	Not Detected		nle	no

Table 3 SEMI-VOLATILE ANALYSIS DATA SHEET

Lab Name:

FMETL

NJDEP#

<u>13461</u>

Matrix: (soil/water) WATER

Date Sampled:

F - 1

. •==== 11/6/98

Location:

1220

Lab Sample ID: 4035.08(Bldg 1220)

CAS NO.	COMPOUND NAME	MDL (ug/L)	RESULTS	QUALIFIER	REGULATORY LEVEL(ug/L)	EXCEEDS CRITERIA
110-86-1	Pyridine	2.52	Not Detected		nle	по
62-75-9	N-nitroso-dimethylamine	2.64	Not Detected		20	no
62-53-3	Aniline	2.90	Not Detected	-	nle	по
111-44-4	bis(2-Chloroethyl)ether	2.45	Not Detected	_	10	no
541-73-1	1,3-Dichlorobenzene	2.65	Not Detected		600	no
106-46-7	1,4-Dichlorobenzene	2.50	Not Detected		75	no
100-51-6	Benzyl alcohol	2.09	Not Detected	-	nle	no
95-50-1	1,2-Dichlorobenzene	2.44	Not Detected	-	600	no
108-60-1	bis(2-chloroisopropyl)ether	2.96	Not Detected	-	300	no
621-64-7	n-Nitroso-di-n-propylamine	2.22	Not Detected	-	20	no
67-72-1	Hexachloroethane	2.59	Not Detected	-	10	no
98-95-3	Nitrobenzene	2.45	Not Detected		10	no
78-59-1	Isophorone	2.31	Not Detected		100	ПÓ
111-91-1	bis(2-Chloroethoxy)methane	2.54	Not Detected		nle	no
120-82-1	1,2,4-Trichlorobenzene	2.58	Not Detected	-	9	по
91-20-3	Naphthalene	3.03	Not Detected	_	nle	по
106-47-8	4-Chloroaniline	2.55	Not Detected		nle	по
87-68-3	Hexachlorobutadiene	0.64	Not Detected		1	по
91-57-6	2-Methylnaphthalene	2.49	Not Detected	_	nle	по
77-47-4	Hexachlorocyclopentadiene	1.59	Not Detected	-	50	по
91-58-7	2-Chloronaphthalene	2.15	Not Detected		nle	по
88-74-4	2-Nitroaniline	1.62	Not Detected	-	nle	no
131-11-3	Dimethylphthalate	2.74	Not Detected		7000	no
208-96-8	Acenaphthylene	2.35	Not Detected		nle	no

Table 3 SEMI-VOLATILE ANALYSIS DATA SHEET

Lab Name:

FMETL

NJDEP#

13461

Matrix: (soil/water) WATER

Date Sampled:

11/6/98

Location:

<u>1220</u>

Lab Sample ID: 4035.08(Bldg 1220)

CAS NO.	COMPOUND NAME	MDL (ug/L)	RESULTS	QUALIFIER	REGULATORY LEVEL(ug/L)	EXCEEDS CRITERIA
606-20-2	2,6-Dinitrotoluene	1.54	Not Detected		nle	по
99-09-2	3-Nitroaniline	1.62	Not Detected	_	nle	no
83-32-9	Acenaphthene	1.98	Not Detected		400	no
132-64-9	Dibenzofuran	2.13	Not Detected		nle	no
121-14-2	2,4-Dinitrotoluene	1.22	Not Detected		10	no
84-66-2	Diethylphthalate	1.68	Not Detected	-	5000	по
86-73-7	Fluorene	1.93	Not Detected	-	300	no
7005-72-3	4-Chlorophenyl-phenylether	1.53	Not Detected		nle	no
100-01-6	4-Nitroaniline	2.70	Not Detected	-	nle	no
86-30-6	n-Nitrosodiphenylamine	1.73	Not Detected	-	20	no
103-33-3	Azobenzene	1.92	Not Detected	-	nle	no
101-55-3	4-Bromophenyl-phenylether	1.54	Not Detected	-	nle	no
118-74-1	Hexachlorobenzene	1.88	Not Detected		10	no
85-01-8	Phenanthrene	1.67	Not Detected	-	nle	no
120-12-7	Anthracene	1.79	Not Detected		2000	no
84-74-2	Di-n-butylphthalate	1.83	Not Detected	~~	900	no
206-44-0	Fluoranthene	1.85	Not Detected		300	no
92-87-5	Benzidine	4.11	Not Detected		50	no
129-00-0	Pyrene	1.02	Not Detected	-	200	no
85-68-7	Butylbenzylphthalate	1.15	Not Detected	_	100	no
56-55-3	Benzo[a]anthracene	1.57	Not Detected	-	10	no
91-94-1	3,3'-Dichlorobenzidine	2.28	Not Detected		60	no
218-01-9	Chrysene	2.32	Not Detected		20	по
117-81-7	bis(2-Ethylhexyl)phthalate	1.29	Not Detected		30	no
117-84-0	Di-n-octylphthalate	1.30	Not Detected		100	по
205-99-2	Benzo[b]fluoranthene	1.31	Not Detected	-	10	no
207-08-9	Benzo[k]fluoranthene	1.57	Not Detected		2	по
50-32-8	Benzo[a]pyrene	1.36	Not Detected	-	20	по
193-39-5	Indeno[1,2,3-cd]pyrene	1.22	Not Detected	-	20	no
53-70-3	Dibenz[a,h]anthracene	3.12	Not Detected	<u> </u>	20	no
191-24-2	Benzo[g,h,i]perylene	1.13	Not Detected		nle	no

Table 3 VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:

FMETL

NJDEP#

<u>13461</u>

Matrix: (soil/water) WATER

Date Sampled:

12/3/98

Location:

<u>1220</u>

Lab Sample ID: 4107.01(Trip Blank)

CAS NO.	COMPOUND NAME	MDL (ug/L)	RESULTS	QUALIFIER	REGULATORY LEVEL(ug/L)	EXCEEDS CRITERIA
107028	Acrolein	1.85	Not Detected		50	по
107131	Acrylonitrile	2.78	Not Detected		50	по
75650	tert-Butyl alcohol	8.52	Not Detected	_	nle	no
1634044	Methyl-tert-Butyl ether	0.16	Not Detected		nle	no
108203	Di-isopropyl ether	0.25	Not Detected	-	nle	по
	Dichlorodifluoromethane	1.68	Not Detected	_	nle	no
74-87-3	Chloromethane	1.16	Not Detected		30	no
75-01-4	Vinyl Chloride	1.06	Not Detected		5	no
74-83-9	Bromomethane	1.10	Not Detected		10	no
75-00-3	Chloroethane	1.01	Not Detected		nle	no
75-69-4	Trichlorofluoromethane	0.50	Not Detected		nle	no
75-35-4	1, 1-Dichloroethene	0.24	Not Detected	-	2	no
67-64-1	Acetone	1.36	Not Detected	-	700	по
75-15-0	Carbon Disulfide	0.46	Not Detected		nle	no
75-09-2	Methylene Chloride	0.24	Not Detected		2	по
156-60-5	trans-1,2-Dichloroethene	0.16	Not Detected		100	по
75-35-3	1,1-Dichloroethane	0.12	Not Detected		70	no
108-05-4	Vinyl Acetate	0.78	Not Detected	_	nle	no
78-93-3	2-Виталопе	0.62	Not Detected		300	no
156-59-2	cis-1,2-Dichloroethene	0.17	Not Detected		10	no
67-66-3	Chloroform	0.30	Not Detected		6	no
75-55-6	1,1,1-Trichloroethane	0.23	Not Detected	-	30	no
56-23-5	Carbon Tetrachloride	0.47	Not Detected		2	no
71-43-2	Benzeze	0.23	Not Detected		1	по
107-06-2	1,2-Dichloroethane	0.18	Not Detected	_	2	no
79-01-6	Trichloroethene	0.23	Not Detected		1	no
78-87-5	1, 2-Dichloropropane	0.40	Not Detected		1	no
75-27-4	Bromodichloromethane	0.55	Not Detected		I	no
110-75-8	2-Chloroethyl vinyl ether	0.65	Not Detected		nle	no
10061-01-5	cis-1,3-Dichloropropene	0.69	Not Detected		nle	no

Table 3 VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:

FMETL

NJDEP#

<u>13461</u>

Matrix: (soil/water) WATER

Date Sampled:

12/3/98

Location:

<u>1220</u>

Lab Sample ID: 4107.01(Trip Blank)

CAS NO.	COMPOUND NAME	MDL (ug/L)	RESULTS	QUALIFIER	REGULATORY LEVEL(ug/L)	EXCEEDS CRITERIA
108-10-1	4-Methyl-2-Pentanone	0.59	Not Detected		400	no
108-88-3	Тошеле	0.37	Not Detected	-	1000	no
10061-02-6	trans-1,3-Dichloropropene	0.87	Not Detected		nle	по
79-00-5	1,1,2-Trichloroethane	0.48	Not Detected		3	no
127-18-4	Tetrachloroethene	0.32	Not Detected		1	no
591-78-6	2-Hexanone	0.71	Not Detected	-	nle	no
126-48-1	Dibromochloromethane	0.86	Not Detected		10	во
108-90-7	Chlorobenzene	0.39	Not Detected	-	4	ю
100-41-4	Ethylbenzene	0.65	Not Detected		700	no
1330-20-7	m+p-Xylenes	1.14	Not Detected		nle	по
1330-20-7	o-Xylene	0.62	Not Detected		nle	no
100-42-5	Styrene	0.56	Not Detected		100	во
75-25-2	Bromoform	0.70	Not Detected		4	no
79-34-5	1,1,2,2-Tetrachloroethane	0.47	Not Detected		2	no
541-73-1	1,3-Dichlorobenzene	0.55	Not Detected		600	no
106-46-7	1,4-Dichlorobenzene	0.57	Not Detected	-	75	no
95-50-1	1,2-Dichlorobenzene	0.64	Not Detected	<u>-</u>	600	no

Table 3 VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:

FMETL

NJDEP#

<u>13461</u>

Matrix: (soil/water) WATER

Date Sampled:

12/03/98

Location:

1220

Lab Sample ID: 4107.02(Field Blank)

Date Sampled: <u>12/03/98</u>		Location	. 1220	Lab Sample 1D. 4107.02(Field			
CAS NO.	COMPOUND NAME	MDL (ug/L)	RESULTS	QUALIFIER	REGULATORY LEVEL(ug/L)	EXCEEDS CRITERIA	
107028	Acrolein	1.85	Not Detected	<u></u>	50	no	
107131	Acrylonitrile	2.78	Not Detected		50	no	
75650	tert-Butyl alcohol	8.52	Not Detected		nle	по	
1634044	Methyl-tert-Butyl ether	0.16	Not Detected		nle	no	
108203	Di-isopropyl ether	0.25	Not Detected		nle	no	
	Dichlorodifluoromethane	1.68	Not Detected		nle	no	
74-87-3	Chloromethane	1.16	Not Detected		30	по	
75-01-4	Vinyl Chloride	1.06	Not Detected		5	no	
74-83-9	Bromomethane	1.10	Not Detected		10	по	
75-00-3	Chloroethane	1.01	Not Detected		nle	по	
75-69-4	Trichlorofluoromethane	0.50	Not Detected		nle	ро	
75-35-4	1, 1-Dichloroethene	0.24	Not Detected	_	2	по	
67-64-1	Acetone	1,36	Not Detected		700	no	
75-15-0	Carbon Disulfide	0.46	Not Detected		nle	no	
75-09-2	Methylene Chloride	0.24	Not Detected		2	no	
156-60-5	trans-1,2-Dichloroethene	0.16	Not Detected	-	100	no	
75-35-3	1,1-Dichloroethane	0.12	Not Detected		70	no	
108-05-4	Vinyl Acetate	0.78	Not Detected		nle	no	
78-93-3	2-Butanone	0.62	Not Detected		300	по	
156-59-2	cis-1,2-Dichloroethene	0.17	Not Detected		10	no	
67-66-3	Chloroform	0.30	Not Detected		6	no	
75-55-6	1,1,1-Trichloroethane	0.23	Not Detected		30	no	
56-23-5	Carbon Tetrachloride	0.47	Not Detected		2	no	
71-43-2	Benzeze	0.23	Not Detected		1	no	
107-06-2	1,2-Dichloroethane	0.18	Not Detected	-	2	no	
79-01-6	Trichloroethene	0.23	Not Detected		1	no	
78-87-5	1, 2-Dichloropropane	0.40	Not Detected		1	no	
75-27-4	Bromodichloromethane	0.55	Not Detected		1	no	
110-75-8	2-Chloroethyl vinyl ether	0.65	Not Detected		nle	no	
10061-01-5	cis-1,3-Dichloropropene	0.69	Not Detected		nle	no	

Table 3. VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:

FMETL

NJDEP#

<u>13461</u>

Matrix: (soil/water) WATER

Date Sampled:

12/3/98

Location:

<u>1220</u>

Lab Sample ID: 4107.02(Field Blank)

Date bumpied: <u>12/3/30</u>			<u></u>	240 5411pte 15. 1107.05(11cte		
CAS NO.	COMPOUND NAME	MDL (ug/L)	RESULTS	QUALIFIER	REGULATORY LEVEL(ug/L)	EXCEEDS CRITERIA
108-10-1	4-Methyl-2-Pentanone	0.59	Not Detected	_	400	no
108-88-3	Toluene	0.37	Not Detected	-	1000	no
10061-02-6	trans-1,3-Dichloropropene	0.87	Not Detected	-	nle	по
79-00-5	1,1,2-Trichloroethane	0.48	Not Detected		3	no
127-18-4	Tetrachloroethene	0.32	Not Detected		1	no
591-78-6	2-Hexanone	0.71	Not Detected		nle	no
126-48-1	Dibromochloromethane	0.86	Not Detected	-	10	no
108-90-7	Chlorobenzene	0.39	Not Detected	-	4	no
100-41-4	Ethylbenzene	0.65	Not Detected	-	700	no
1330-20-7	m+p-Xylenes	1.14	Not Detected		nle	во
1330-20-7	o-Xylene	0.62	Not Detected	-	nle	no
100-42-5	Styrene	0.56	Not Detected	-	100	no
75-25-2	Bromoform	0.70	Not Detected		4	no
79-34-5	1,1,2,2-Tetrachloroethane	0.47	Not Detected		2	по
541-73-1	1,3-Dichlorobenzene	0.55	Not Detected		600	no
106-46-7	1,4-Dichlorobenzene	0.57	Not Detected		75	no
95-50-1	1,2-Dichlorobenzene	0.64	Not Detected		600	no

Table 3 VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:

FMETL

NJDEP#

<u>13461</u>

Matrix: (soil/water) WATER

Date Sampled:

12/3/98

Location:

1220

Lab Sample ID: 4107.05(Bldg 1220)

Date Samp	icu. <u>12/3/76</u>	Location	. 1220	Lau 5	ampie 1D. <u>4107.</u>)3(Diug 1220)
CAS NO.	COMPOUND NAME	MDL (ug/L)	RESULTS	QUALIFIER	REGULATORY LEVEL(ug/L)	EXCEEDS CRITERIA
107028	Acrolein	1.85	Not Detected		50	no
107131	Acrylonitrile	2.78	Not Detected		50	по
75650	tert-Butyl alcohol	8.52	Not Detected	<u>-</u>	nle	no
1634044	Methyl-tert-Butyl ether	0.16	Not Detected	-	nle	no
108203	Di-isopropyl ether	0.25	Not Detected		nle	no
	Dichlorodifluoromethane	1.68	Not Detected	-	nle	по
74-87-3	Chloromethane	1.16	Not Detected	-	30	no
75-01-4	Vinyl Chloride	1.06	Not Detected		5	no
74-83-9	Bromomethane	1.10	Not Detected		10	по
75-00-3	Chloroethane	1.01	Not Detected		nle	no
75-69-4	Trichlorofluoromethane	0.50	39.87		nle	no
75-35-4	1, 1-Dichloroethene	0.24	Not Detected	-	2	no
67-64-1	Acetone	1.36	Not Detected		700	по
75-15-0	Carbon Disulfide	0.46	Not Detected	-	nle	no
75-09-2	Methylene Chloride	0.24	Not Detected		2	no
156-60-5	trans-1,2-Dichloroethene	0.16	Not Detected		100	no
75-35-3	1,1-Dichloroethane	0.12	Not Detected	_	70	no
108-05-4	Vinyl Acetate	0.78	Not Detected		nle	no
78-93-3	2-Butanone	0.62	Not Detected		300	no
156-59-2	cis-1,2-Dichloroethene	0.17	Not Detected		10	no
67-66-3	Chloroform	0.30	Not Detected		6	no
75-55-6	1,1,1-Trichloroethane	0.23	Not Detected		30	no
56-23-5	Carbon Tetrachloride	0.47	Not Detected		2	по
71-43-2	Benzeze	0.23	Not Detected		1	no
107-06-2	1,2-Dichloroethane	0.18	Not Detected		2	no
79-01-6	Trichloroethene	0.23	Not Detected		1	no
78-87-5	1, 2-Dichloropropane	0.40	Not Detected		1	no
75-27-4	Bromodichloromethane	0.55	Not Detected		1	no
110-75-8	2-Chloroethyl vinyl ether	0.65	Not Detected		nle	no
10061-01-5	cis-1,3-Dichloropropene	0.69	Not Detected		nle	no

Table 3 **VOLATILE ORGANICS ANALYSIS DATA SHEET**

Lab Name:

FMETL

NJDEP#

13461

Matrix: (soil/water) WATER

Date Sampled:

12/3/98

Location:

1220

Lab Sample ID: 4107.05(Bldg 1220)

CAS NO.	COMPOUND NAME	MDL (ug/L)	RESULTS	QUALIFIER	REGULATORY LEVE	EXCEEDS L(ug/L) CRITER
108-10-1	4-Methyl-2-Pentanone	0.59	Not Detected		400	no
108-88-3	Toluene	0.37	Not Detected	-	1000	no
10061-02-6	trans-1,3-Dichloropropene	0.87	Not Detected		nle	no
79-00-5	1,1,2-Trichloroethane	0.48	Not Detected	-	3	no
127-18-4	Tetrachloroethene	0.32	Not Detected	-	1	no
591-78-6	2-Hexanone	0.71	Not Detected		nle	no
126-48-1	Dibromochloromethane	0.86	Not Detected	-	10	no
108-90-7	Chlorobenzene	0.39	Not Detected	-	4	no
100-41-4	Ethylbenzene	0.65	Not Detected		700	во
1330-20-7	m+p-Xylenes	1.14	Not Detected	-	nle	no
1330-20-7	o-Xylene	0.62	Not Detected	-	nle	no
100-42-5	Styrene	0.56	Not Detected		100	no
75-25-2	Bromoform	0.70	Not Detected		4	no
79-34-5	1,1,2,2-Tetrachloroethane	0.47	Not Detected		2	no
541-73-1	1,3-Dichlorobenzene	0.55	Not Detected	-	600	no
106-46-7	1,4-Dichlorobenzene	0.57	Not Detected		75	no
95-50-1	1,2-Dichlorobenzene	0.64	Not Detected		600	no

Table 3 SEMI-VOLATILE ANALYSIS DATA SHEET

Lab Name:

FMETL

NJDEP#

<u>13461</u>

Matrix: (soil/water) WATER

Date Sampled:

12/3/98

Location:

<u>1220</u>

Lab Sample ID: 4107.02(Field Blank)

CAS NO.	COMPOUND NAME	MDL (ug/L)	RESULTS	QUALIFIER	REGULATORY LEVEL(ug/L)	EXCEEDS CRITERIA
110-86-1	Pyridine	5.00	Not Detected	-	nle	no
62-75-9	N-nitroso-dimethylamine	0.94	Not Detected	-	20	no
62-53-3	Aniline	0.15	Not Detected		nle	no
111-44-4	bis(2-Chloroethyl)ether	0.48	Not Detected	_	10	no
541-73-1	1,3-Dichlorobenzene	0.33	Not Detected	-	600	no
106-46-7	1,4-Dichlorobenzene	0.23	Not Detected	-	75	no
100-51-6	Benzyl alcohol	0.18	Not Detected		nle	no
95-50-1	1,2-Dichlorobenzene	0.16	Not Detected	-	600	no
108-60-1	bis(2-chloroisopropyl)ether	0.61	Not Detected	-	300	по
621-64-7	n-Nitroso-di-n-propylamine	0.18	Not Detected	-	20	no
67-72-1	Hexachloroethane	0.33	Not Detected		10	no
98-95-3	Nitrobenzene	0.46	Not Detected	-	10	no
78-59-1	Isophorone	0.35	Not Detected		100	no
111-91-1	bis(2-Chloroethoxy)methane	0.46	Not Detected	-	nle	по
120-82-1	1,2,4-Trichlorobenzene	0.25	Not Detected	-	9	по
91-20-3	Naphthalene	0.25	Not Detected	-	nle	no
106-47-8	4-Chloroaniline	0.19	Not Detected		nle	no
87-68-3	Hexachlorobutadiene	0.38	Not Detected		1	no
91-57-6	2-Methylnaphthalene	0.16	Not Detected		nle	no
77-47-4	Hexachlorocyclopentadiene	1.50	Not Detected		50	no
91-58-7	2-Chloronaphthalene	0.32	Not Detected		nle	no
88-74-4	2-Nitroaniline	0.21	Not Detected		nle	no
131-11-3	Dimethylphthalate	0.18	Not Detected		7000	no
208-96-8	Acenaphthylene	0.19	Not Detected		nle	no

Table 3 SEMI-VOLATILE ANALYSIS DATA SHEET

Lab Name:

FMETL

NJDEP#

<u>13461</u>

Matrix: (soil/water) WATER

Date Sampled:

12/3/98

Location:

<u>1220</u>

Lab Sample ID: 4107.02(Field Blank)

Dute Sample	. <u>12/5/70</u>	Document	1220	Luo o	4107.c	Z(Tield Dialik)
CAS NO.	COMPOUND NAME	MDL (ug/L)	RESULTS	QUALIFIER	REGULATORY LEVEL(ug/L)	EXCEEDS CRITERIA
606-20-2	2,6-Dinitrotoluene	0.31	Not Detected		nle	по
99-09-2	3-Nitroaniline	0.26	Not Detected		nle	no
83-32-9	Acenaphthene	0.26	Not Detected		400	no
132-64-9	Dibenzofuran	0.32	Not Detected	-	nle	no
121-14-2	2,4-Dinitrotoluene	0.36	Not Detected		10	no
84-66-2	Diethylphthalate	0.82	Not Detected		5000	no
86-73-7	Fluorene	0.29	Not Detected	-	300	по
7005-72-3	4-Chlorophenyl-phenylether	0.31	Not Detected		nle	по
100-01-6	4-Nitroaniline	0.90	Not Detected		nle	по
86-30-6	n-Nitrosodiphenylamine	0.23	Not Detected		20	no
103-33-3	Azobenzene	0.80	Not Detected		nle	по
101-55-3	4-Bromophenyl-phenylether	0.55	Not Detected		nle	no
118-74-1	Hexachlorobenzene	0.82	Not Detected		10	no
85-01-8	Phenanthrene	0.18	Not Detected		nle	no
120-12-7	Anthracene	0.19	Not Detected	-	2000	no
84-74-2	Di-n-butylphthalate	0.23	Not Detected		900	no
206-44-0	Fluoranthene	0.41	Not Detected		300	no
92-87-5	Benzidine	1.45	Not Detected		50	no
129-00-0	Рутеле	0.32	Not Detected		200	no
85-68-7	Butylbenzylphthalate	0.47	Not Detected		100	no
56-55-3	Benzo[a]anthracene	0.22	Not Detected		10	по
91-94-1	3,3'-Dichlorobenzidine	0.46	Not Detected	-	60	no
218-01-9	Chrysene	0.20	Not Detected		20	no
117-81-7	bis(2-Ethylhexyl)phthalate	0.51	1.89		30	no
117-84-0	Di-n-octylphthalate	0.82	Not Detected		100	no
205-99-2	Benzo[b]fluoranthene	0.37	Not Detected	-	10	no
207-08-9	Benzo[k]fluoranthene	0.32	Not Detected		2	no
50-32-8	Benzo[a]pyrene	0.31	Not Detected		20	no
193-39-5	Indeno[1,2,3-cd]pyrene	0.79	Not Detected		20	по
53-70-3	Dibenz[a,h]anthracene	0.28	Not Detected		20	no
191-24-2	Benzo[g,h,i]perylene	0.40	Not Detected		nle	no

Table 3 SEMI-VOLATILE ANALYSIS DATA SHEET

Lab Name:

FMETL

NJDEP#

<u>13461</u>

Matrix: (soil/water) WATER

Date Sampled:

12/3/98

Location:

<u>1220</u>

Lab Sample ID: 4107.04(Bldg 1220)

CAS NO.	COMPOUND NAME	MDL (ug/L)	RESULTS	QUALIFIER	REGULATORY LEVEL(ug/L)	EXCEEDS CRITERIA
110-86-1	Pyridine	5.00	Not Detected		nle	по
62-75-9	N-nitroso-dimethylamine	0.94	Not Detected	-	20	no
62-53-3	Aniline	0.15	Not Detected		nle	no
111-44-4	bis(2-Chloroethyl)ether	0.48	Not Detected		10	no
541-73-1	1,3-Dichlorobenzene	0.33	Not Detected	- !	600	no
106-46-7	1,4-Dichlorobenzene	0.23	Not Detected		75	по
100-51-6	Benzyl alcohol	0.18	Not Detected	-	nle	no
95-50-1	1,2-Dichlorobenzene	0.16	Not Detected	-	600	no
108-60-1	bis(2-chloroisopropyl)ether	0.61	Not Detected		300	no
621-64-7	n-Nitroso-di-n-propylamine	0.18	Not Detected		20	no
67-72-1	Hexachloroethane	0.33	Not Detected	-	10	no
98-95-3	Nitrobenzene	0.46	Not Detected		10	по
78-59-1	Isophorone	0.35	Not Detected		100	no
111-91-1	bis(2-Chloroethoxy)methane	0.46	Not Detected	-	nle	no
120-82-1	1,2,4-Trichlorobenzene	0.25	Not Detected		9	no
91-20-3	Naphthalene	0.25	Not Detected	-	nle	по
106-47-8	4-Chloroaniline	0.19	Not Detected		nle	no
87-68-3	Hexachlorobutadiene	0.38	Not Detected		1	по
91-57-6	2-Methylnaphthalene	0.16	Not Detected	-	nle	no
77-47-4	Hexachlorocyclopentadiene	1.50	Not Detected	-	50	no
91-58-7	2-Chloronaphthalene	0.32	Not Detected		nle	no
88-74-4	2-Nitroaniline	0.21	Not Detected	_	nle	no
131-11-3	Dimethylphthalate	0.18	1.81		7000	no
208-96-8	Acenaphthylene	0.19	Not Detected	_	nle	no

Table 3 SEMI-VOLATILE ANALYSIS DATA SHEET

Lab Name:

FMETL

NJDEP#

<u>13461</u>

Matrix: (soil/water) WATER

Date Sampled:

12/3/98

Location:

1220

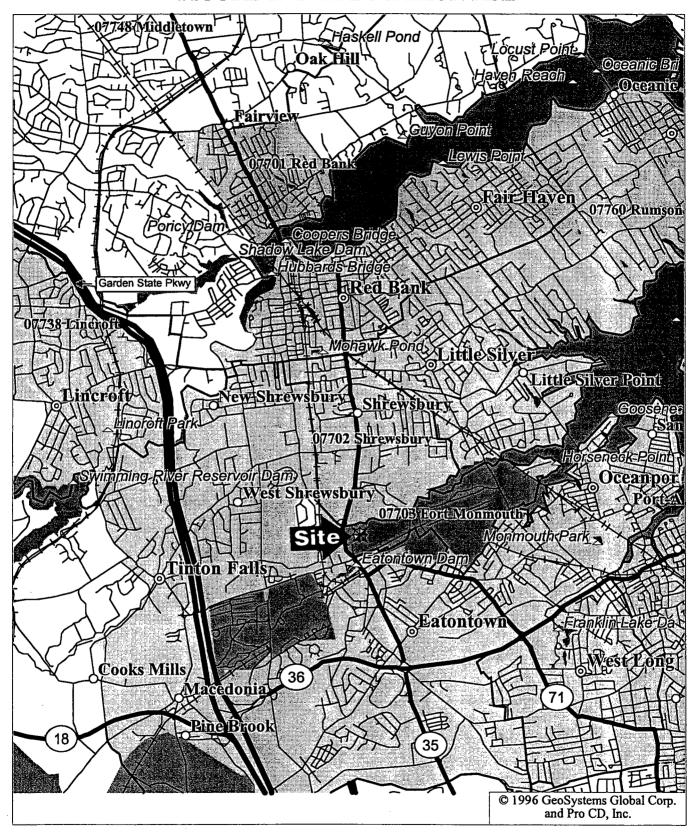
Lab Sample ID: 4107.04(Bldg 1220)

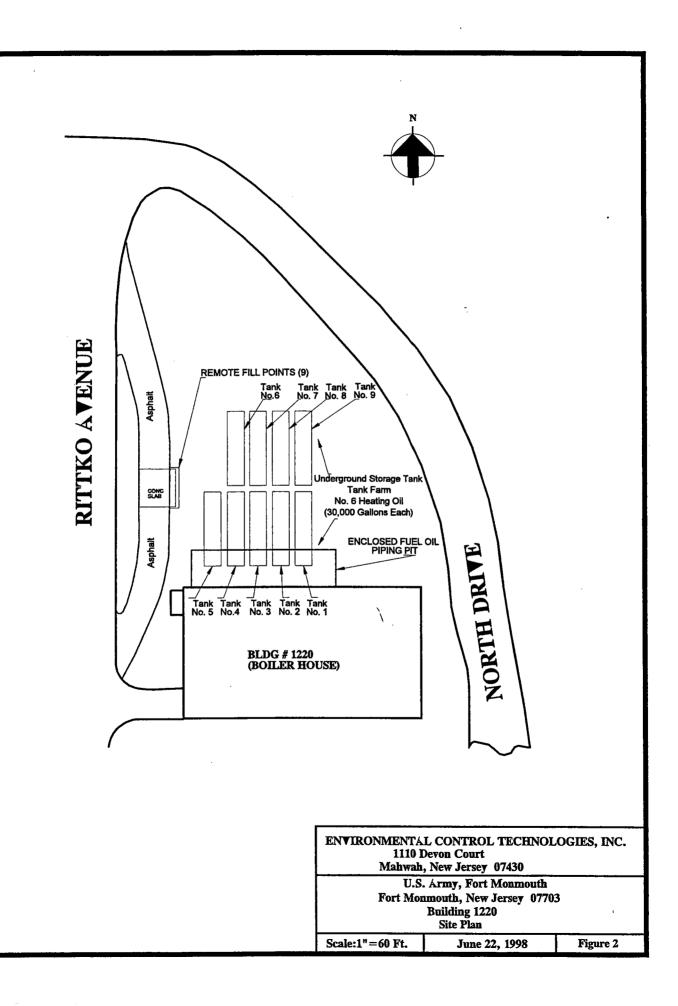
Date Sample	. <u>12/3/96</u>	Location	. 1220	Lau S	ampie 115. <u>4107.0</u>	74(Didg 1220)
CAS NO.	COMPOUND NAME	MDL (ug/L)	RESULTS	QUALIFIER	REGULATORY LEVEL(ug/L)	EXCEEDS CRITERIA
606-20-2	2,6-Dinitrotoluene	0.31	Not Detected		nle	no
99-09-2	3-Nitroaniline	0.26	Not Detected		nle	no
83-32-9	Acenaphthene	0.26	Not Detected	-	400	по
132-64-9	Dibenzofuran	0.32	Not Detected		nle	no
121-14-2	2,4-Dinitrotoluene	0.36	Not Detected		10	no
84-66-2	Diethylphthalate	0.82	Not Detected	_	5000	no
86-73-7	Fluorene	0.29	Not Detected		300	no
7005-72-3	4-Chlorophenyl-phenylether	0.31	Not Detected		nle	no
100-01-6	4-Nitroaniline	0.90	Not Detected		nle	no
86-30-6	n-Nitrosodiphenylamine	0.23	Not Detected		20	ВО
103-33-3	Azobenzene	0.80	Not Detected		nle	no
101-55-3	4-Bromophenyl-phenylether	0.55	Not Detected		nle	no
118-74-1	Hexachlorobenzene	0.82	Not Detected		10	no
85-01-8	Phenanthrene	0.18	Not Detected		nle	no
120-12-7	Anthracene	0.19	Not Detected		2000	по
84-74-2	Di-n-butylphthalate	0.23	Not Detected		900	по
206-44-0	Fluoranthene	0.41	Not Detected		300	no
92-87-5	Benzidine	1.45	Not Detected		50	no
129-00-0	Pyrene	0.32	Not Detected	-	200	no
85-68-7	Butylbenzylphthalate	0.47	Not Detected	-	100	по
56-55-3	Benzo[a]anthracene	0.22	Not Detected		10	no
91-94-1	3,3'-Dichlorobenzidine	0.46	Not Detected		60	no
218-01-9	Chrysene	0.20	Not Detected		20	no
117-81-7	bis(2-Ethylhexyl)phthalate	0.51	Not Detected		30	no
117-84-0	Di-n-octylphthalate	0.82	Not Detected	-	100	по
205-99-2	Benzo[b]fluoranthene	0.37	Not Detected		10	no
207-08-9	Benzo[k]fluoranthene	0.32	Not Detected		2	no
50-32-8	Benzo[a]pyrene	0.31	Not Detected		20	no
193-39-5	Indeno[1,2,3-cd]pyrene	0.79	Not Detected	_	20	no
53-70-3	Dibenz[a,h]anthracene	0.28	Not Detected		20	no
191-24-2	Benzo[g,h,i]perylene	0.40	Not Detected		nle	no
L	<u> </u>			<u> </u>	<u> </u>	L

APPENDIX A

FIGURES

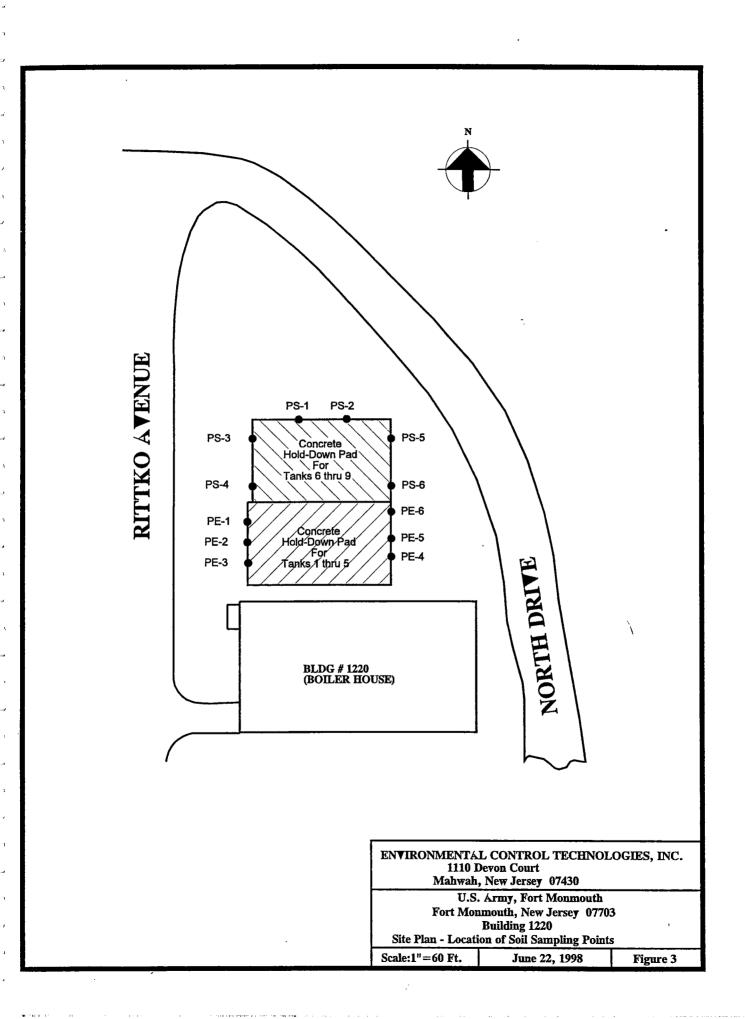
FIGURE 1. SITE LOCATION MAP





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APPENDIX B

SITE ASSESSMENT SUMMARY/
NJDEP STANDARD REPORTING FORM

1 1

New Jersey Department of Environmental Protection

Site Remediation Program

UST Site/Remedial Investigation Report Certification Form

A. Facility I	Name : <u>U.S. Army</u>	Fort Monmouth New Jersey
Facility S	Street Address: D	irectorate of Public Works Building 173
Municip	ality: Oceanport	County: Monmouth
Block:_	L	t(s):Telephone Number : 732-532-6224
B. Owner (RP)'s Name:	
Street A	ddress:	City:
State:		Zip: Telephone Number :
Report (S	es appropriate) estigation SIR) \$500 Fee I Investigation RIR) \$1000 Fee Ederal Agreement	 Complete all that apply) Assigned Case Manager: <u>Ian Curtis, Federal Case Manager</u> UST Registration Number: <u>81533-175 thru 183</u> (7 digits) Incident Report Number <u>97 - 12 - 31 - 1154 - 44</u> (10 or 12 digits) Tank Closure Number: <u>Federal Case Manager</u>
The attac	ту H. Elias	ns to the specific reporting requirements of N.J.A.C. 7:26E
		l Technologies Firm's UST Cert. Number:
		Ct. City: <u>Mahwah</u> p: 07430 Telephone Number : 201-236-8448
		equired only if work was conducted on USTs regulated per N.J.S.A. 58:10A-21 et seq.)
The followi 1. For a Coresolution 2. For a par	ng certification sharporation by a per n, certified as a true tnership or sole pro- nicipality, State, fe "I certify under per application and a information, I be significant civil	nsible Party(ies) of the Facility: all be signed [according to the requirements of N.J.A.C. 7:14B-1.7(b)] as follows: son authorized by a resolution of the board of directors to sign the document. A copy of the copy by the secretary of the corporation, shall be submitted along with the certification; or oprietorship, by a general partner or the proprietor, respectively; or deral or other public agency by either a principal executive officer or ranking elected Official. Enalty of law that I have personally examined and am familiar with the information submitted in this attached documents, and that based on my inquiry of those individuals responsible for obtaining the elieve that the submitted information is true, accurate, and complete. I am aware that there are penalties for knowingly submitting false, inaccurate, or incomplete information and that I am
Name (I		ne of the fourth degree if I make a written false statement which I do not believe to be true. I am also owingly direct or authorize the violation of any statute, I am personally liable for the penalties." James Ott Title: Directorate of Public Works
Signatur Compar	re:	U.S. Army Fort Monmouth Date: 9/4/00

																				•
9. Total regulated underground storage ta	ink cap	acit	y at facili	ly (ga	llons) <u>L</u>	2	7 0	0 0	101									_	,
10. Facility Type: A State B Commercial	8 🔀	Co Fe	unty/Mur deral	nicipai	F			ritable idenc		ublic S	Scho	xol	G H		Other Farm (: 54:4-23				N.J.S	
11. Is a copy of the facility site plan submitt	ed with	thi	s registra	tion p	ursu	ant	to N.J	.A.C.	7:14	B-27]YE	s		24:4-2. NO	3. 1 9 (-eq	•1	•	
SECTION B - SPECIFIC TANK INFO			_	•							_		-							
ALL underground tanks, including those tak 9/3/86) must be registered. Report all tank/	en out o	of o	peration us chang	(UNL es un	ESS less	Dre/	E TAN viously	K WA	NS F	IEMO\ d.	VED	FRO	M 7	THE	GROL	ו סמנ	PRIC)A T	o	
I. Tank Identification Number	TAN		NO. 7 5	7	ANK	NO 7		Ţ	ANK	(NO.		Ţ/		(NC			TAN		9	
2. CAS Number (hazardous substances only)	111	1.1			1.1.	1.1		11	11	1.1.1	1	11	1 1	1.1	1 1	, ,	1 1	1 1	111	
I. Date Tank installed (Month/Day/Year)	Mo. Da	y	Year	Ma.	Day	Y	ear i i	Mo.	Day	Year		Ma.	Dey j ·	Y	lear	Ma.	Day			•
I, Tank Size (gallons)	3	0	0 0 0		3 0	O	וסוס	厅	310	1010	U	ľ	गण	וטו	וטוס		310	101	UJU	1
i. Tank Contents (Mark one "X" for each tank)		_				<u> </u>				7						┞		_	- 13	4
A. Leaded gasoline		\vdash			+-				+	 			\bot	4		<u> </u>	_[1	4 S	
B. Unleaded gasoline	}	\vdash			+-	+-			+	+			+	+-	• •	 	+	+-	1.1.	
C. Alcohol endriched gasoline. D. Light diesel fuel (No. 1-D)		H		-	+-	+-			+	+			+	+-			+	+	·	•
E. Medium diesel fuel (No. 2-D)					+	+		 -	+-	+			+	+-		 	+	+		
F. Waste Oil						1			+	1			+	+		-	+	+		٠
G. Kerosene (No. 1)					\perp					Γ			_†	1			+	+		٠
H. Home heating oil (No. 2)		\Box																$oxed{\Box}$		•
J. Heating oil (No. 4)		-			-	1			ļ.,	1			\perp	\perp			\bot	L		•
K. Heavy heating oil (No. 6)		X			_ X	4-			X	4			-12	4			_ 2	4_		•
L Aviation fuel	 	 -	 		-+-	+-				+		 		+-			-+-	+-		•
M. Motor oil	 	+	 	 	+	+-				+			+	+-		-		+		•
N. Lubricating oil P. Sawage	 	\vdash			+	+			+	+			+	+-		-			43.	•
Q. Sawage sludge		1		1	\dashv	+			+	1			+	+		-	-+-	- 		•
R. Other hazardous substances (specify)		_																	ja ja	•
S. Hazardous waste (specify ID number)																				•
T. Mixtures (please specify)				 																
U. Emergency spill tank (specify substance)	ļ			├				 												•
V. Other petroleum products (please specify)				 												├				•
W. Other (please specify)	-		5'	+				 				 	.			 _	<u> </u>			•
6. Tank & Piping Construction (Mark one each for both tank & piping)	Tank		Piping	Tai		Pi	ping	Tar		Pipi	ng	Tai			iping	ł	nk		ping	
A. Bare Steel	X		X	1 12	9	_[X	Z	1_	X		X	1		<u> </u>	1	<u> </u>	D	<u> </u>	
B. Cathodically protected steel	- -			1-1-	4-	_			1			\Box	1	-1	4	H	4	\bot	_	
C. Fiberplass-coated steel	$\vdash \vdash \vdash$			++	+	-		 	 	- -		╁╌╂╴	4			┼-┼-	+-	-	-	
D. Fiberglass-reinforced plastic	╂╼╂╼╂		- - 	╁┼	+	-+		 	 	- -		++	+-		+-	╁┼	+		`	•
E. Internally lined	╁┸┸			╁┸				╁╌┸╴	ــــــــــــــــــــــــــــــــــــــ	لسلسا	L	╁┷┸╾	_ـــــــــــــــــــــــــــــــــــــ			╁┸		<u>.</u>		•
F. Other (please specify)	 			+				 	-			 		<u> </u>		-			<u> </u>	•
7. Tank & Piping Structure (Mark one each for both tank & piping)	Tani	(Piping	Та		Pi	ping	Tai		Pipi	_	Ta			iping	Ta	nk	Pi	ping	
A. Single wall	X		X	<u> . </u>	(X			X		7	()	_ T	X		XI_		X	
B. Double wall									T				T		T	\prod	1		i I	•
C. Other (please specify)																		2.2	de d	
8. Type of Monitoring/Detection System	Tani	(Piping	Ta	ink	P	iping	Ta	nk	Pip!	ng	Ta	nk	P	iping	7	ınk	·¿p	ipin;	
(Mark all that apply for both tank & piping) A. Statistical Inventory Reconciliation	1			1	7	ţ	¬ -	1 -	٦,	<u>.</u>	1		ר ר	ſ	<u> </u>	7	7	1		•
B. Manual Tank Gauging	 - - 		-+-	++				+	+		-	+-+	+		-	┼┽	+	\dashv	-	•
C, Inventory Control	1-1-1			+-+	+-			++	+-			++	+			┿			H	•
D. Interstitial	1-1-1		++	+-+	+		-	++	+-	-		+-+	十		 	+-+	╁	\dashv	-	•
E. Precision Test				1-1	+	$\neg \uparrow$		++	1	_	1	11	+		-	†-†	+		1	,
F. Ground water observation wells												11	1				_			
G. Vapor observation wells				\Box								\prod			,		\perp			
H. In-tank (automatic) monitoring gauge												\prod	\perp				\perp			
L Pariadia Tank Tost	1 1	i		1	- 1			1	i			i	1 -		-	- 1	1			

Tank Identification Number	Ī	ANK	NO. 7 5	TA		NO. 7 6	<u> </u>	ANK		<u>ד</u>	ANK 11	NO. 7 [8]	7	ANK I	NO. 7191
8. Type of Monitoring/Detection System K. None	Tar		Piping X	Tank	(Piping X	Tan		Piping	Tan		Piping	Tan		Piping
L Other (please specify) 9. Overfill Protection (tank only) (Mark one X for each tank)															
A. Yes		X			X			X			X				
10. Spill Containment Around Fill Pipe (Mark one X for each tank)			1		<u></u>	7			! 1						
A. Yes B. No	├─	$\neg x$		<u> </u>	X	 		X							
11. Tank Status (Mark one X for each tank) A. In-use	Tar	ık	Piping	Tank	<u> </u>	Piping	Tan	 k 	Piping	Tar		Piping	Tan	لسلسا	Piping
B. Empty less than 12 months C. Empty 12 months or more															
D. Emergency spill tank (sump) E. Emergency backup generator tank F. Abandoned in Place		-			_						-			-	\ddagger
G. Removed	X		X	X		X	X		X	X		X	X		X
H. Other (please specify)															
12. If box 11B, C, or D above has been marked, indicate the estimated date last used (month/day/year)	Mo.		Year	Ma. D	ey 	Year	Mo.	Day	Year	Ma.	Day	Year	Mo.	Day	Year
13. Closure information - Tank ID No.] [TANK	75		1	NO. 7[6]		ANK	77			NO. 7 8]9]
A. Date abandoned in place	Mo.	Day	Year	Ma. [l	Year	Ma.	Day	Year	Ma.	Day	1 1 1	1	Day	1. 1
B. Date taken temporarily out of service	111		111		1	111	Ш	1	111	1	1	111	1	1	1:1
C. Date removed	01	213	19918	0 12	2 3	19918	01	2 3	191918	0 1	213	191918	0 1	2 3	1,9,9
D. Date of Sale or Transfer		1	111		1	1111	$ \cdot $		111	1	1	1111	1	,	11.1
E_TMS # (if applicable) N/A	1	FEL	ERAL	CA	SE	MANA	GE	ME	NT	T					
F. ISRA # (if applicable)															
SECTION C - FINANCIAL RESPONS Does this facility have a Financial Responsi Please list the appropriate financial informa	bility	Assu	rance Me	chanisr	n a	s required	in 40	CFR	1 280? [ES	NO		N/A	\
Туре							Carr	ier / l	ssuing Ag	gency	,				
Effective Date Expiration (/ Date		_			Policy I	Numb	er				. \$ A	moun	· ·	
SECTION D - MONITORING SYSTE	MS]													
Does this facility have a release detection of the "No", please be aware that the facility mu	nonito st me	ring s et the	system w appropr	hich is iate de	in c adli	ompliance ne. (See '	with Date	N.J./ s to K	A.C. 7:14 (now* on	B-6? Page	4}		YES	X	NO
SECTION E - RECORDKEEPING/C															
Please answer all the questions in this sect 1. Does this facility have cathodic prot if "Yes", are the systems properly of 2. Are the performance claims and doe pursuant to N.J.A.C. 7:148-5? 3. Are the proper monitoring, testing, s N.J.A.C. 7:148-5 and 6? 4. Is the proper Release Response Pl 5. Does the facility have spill and over	ection operat cumer sampli an ker	systed and and artestion a	ems for a ad mainta n of mon epair and site purs	ull steel sined pu itoring s invent uant to	tan irsu syst ory N.J	ks and pip ant to N.J sems main records ke I.A.C. 7:14	ing? .A.C. taine ept or IB-5?	7:14 d by t	B-5? he owne pursuant	roro		F	for the YES YES YES YES YES YES		NC NC
6. Have all Fill Ports been permanenti	y mar	ked a	s per AP	1 #1637	pu	rsuant to	N.J.A	.C. 7	148-5?				YES	_	N

Tank Identification Number	7	ANK	(NO.	7	ANK 11	NO.	7	ANK	NO.			(NO.	7	ANK	NO.
8. Type of Monitoring/Detection System K. None	Tar		Piping	Tat		Piping	Tan		Piping	Tan		Piping [X]	Tan	k !	Piping
L Other (please specify) 9. Overfill Protection (tank only) (Mark one X for each tank)								J				173	L		-
A. Yes	ļ	×]	<u> </u>	-]		\Box	
B. No	 	^	<u> </u>		X			X	1	 	X	1	 -		<u> </u>
10. Spill Containment Around Fill Pipe (Mark one X for each tank)		ا	,			1		_	ז		_	_			1
					X				 	 					 -
B. No 11. Tank Status (Mark one X for each tank)	Tal		Piping	Tar		Piping	Tar		Piping	Tar		Piping	Tan	 ik T	Piping
A. In-use B. Empty less than 12 months	++	+-	++-	-	+-		┝┼╸	 		 	+		 - -	 	++-
C. Empty 12 months or more		1												 	++-
D. Emergency spill tank (sump)															
E. Emergency backup generator tank	\Box	4_			↓_						1_				11
F. Abandoned in Place	+- >	_	- x -	$\vdash \mid_{x}$		x		-	 x -	 	-	- x -	 - -	┼	╂╂╾
G. Removed H. Other (please specify)	1-1-	`1			<u> </u>		1	1	121	 	`	_121	 	<u> </u>	
12. If box 11B, C, or D above has been marked, indicate the estimated date	Mo.	Day	Year	Mo.	Day	Year	Mo.	Day	Year	Ма	Day	Year	Ma	Dey	Year
last used (month/day/year) 13. Closure Information - Tank ID No.	[TANI	K NO.	1	ANK	NO.		ANK	NO. 8 2	' '		K NO.	7	NK I	NO.
A. Date shandoned in place	Mo.	Day	Year	Mo.	Day	Year 	Mo.	Day	Year 	Ma.	Day	Yes	Ma	Day	Year
B. Date taken temporarily out of service		1	111		1	1111	Ιī		111	1	1	1111	1		111
C. Date removed	01	213	1998	0:1	2,3	19918	01	213	1991	011	21	319:9:	1		
D. Date of Sale or Transfer	13.	-13	1,0,0,0	١,٠	-10	1.01010	 	1	1101011	1 .	21.	3 43131	1	 	
	+44		DERAL	1	CE	BEARIA			ATT.	+-	<u> </u>	1111	┼	<u> </u>	111
E_TMS # (if applicable) N/A	 	FEL	JEKAL	104	10E	MANA	GE	ME	NI	 			┼		
F. ISRA # (if applicable)	<u> </u>												<u> </u>		
SECTION C - FINANCIAL RESPONS Does this facility have a Financial Responsi Please list the appropriate financial informa	bility .	Assu	rance Me	chani	sm a	s required	in 40	O CFF	R 280? [Y	ES		1	N/A	4
Туре			-				Сал	ier / l	ssuing A	gency	•	_			. <u> </u>
Effective Date Expiration (_/_ Date					Policy I	Numb	oer	 -			_ \$ A	moun	t	
SECTION D - MONITORING SYSTE	MS]													
Does this facility have a release detection r if "No", please be aware that the facility mu	nonito st me	oring :	system w appropri	hich i iat e d	s in c eadli	ompliance ne. (See '	with Date	L.N. r s to b	A.C. 7:14 Know* on	IB-67 Page	4)] YES	X] ио
SECTION E - RECORDKEEPING/C															
Please answer all the questions in this sect 1. Does this facility have cathodic prot If "Yes", are the systems properly of 2. Are the performance claims and doe pursuant to N.J.A.C. 7:14B-5?	ection perat cume	syst ed ar ntatio	ems for a nd mainta on of moni	Il stee ined p toring	al tani pursu psyst	ks and pip lant to N.J lems main	ing? .A.C. taine	. 7:14 d by 1	B-5? the owne	or or o			for th YES YES YES		ire facili NO NO NO
 Are the proper monitoring, testing, s N.J.A.C. 7:14B-5 and 6? Is the proper Release Response Pl. Does the facility have spill and over Have all Fill Ports been permanent 	an ke _l fill pr	pt on otect	-site pursi ion syster	uant t ns pu	o N.J Irsuai	I.A.C. 7:14 nt to N.J.A	4B-57 I.C. 7	? ':14B-	-4?	t to			YES YES YES	S X	NO NO NO

	IMPORTA	T Information	
EE:	processing. Registration and Billing Sche		velope will expedite
ENALTY:	All Initial Registration fees are \$100 per f Failure by owner or operator of a regulate	d underground storage tank to comply with any requirem	ent of the State US
MERGENCY:	Act or regulations may result in the penals If a discharge or spill occurs, the NIDEP I	ues set form in NJS.A. 58:10A-10. Hotline at (609) 292-7172 must be called IMMEDIATEL	V 24 harra a dan
	: Residential heating oil underground stora	ge tanks are exempt from all upgrade requirements.	1 - 24 DOLES & CAY.
		OW (critical deadlines)	
December 22, 1988 -	All new federally regulated tank system	us must have eathodic protection and spill/overfill protecti	OR.
		ms must have cathodic protection and spill/overfill protec	
December 22, 1990 -	- All federally regulated piping must hav	e begun leak detection.	
February 19, 1993 ~	 All federally regulated tank systems mu 	ast maintain funancial responsibility assurance.	
December 22, 1993 -	5 0		•
December 22, 1998 -	All regulated tanks shall install cathodic	c protection and spill/overfill protection.	
		TIFICATIONS	et et 1000 e page
		THE SAME AS THE PERSON SIGNING CERTIFICAT persons are required to sign No. 1 and No. 2, then they may	
CERTIFICATION N	വ ്:	÷	
Must be signed by the	highest ranking individual at the facility	with overall responsibility	
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(I	Typed / Printed Name)	(Signatury)	
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documents, and that be	ased on my inquiry of those individuals	d and am familiar with the information submitted be immediately responsible for obtaining the informati ware that there are significant civil and criminal per	ion. I believe that
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APPENDIX C

WASTE MANIFESTS

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STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS SUBSTANCES REGULATION FOR THE PROPERTY OF T

Plea		US WASTE M 320, Albany, New			Form Approve	.d. OMB No. 20	50-0039. Expires 9-30-96
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1 [3. Generator's Name and Malling Address		1 1			الأرامة أأرا	
	FUEL TANK MAINTENANCE SERVICE, INC.				1.00	過少ける	
	P.O. BOX 305 - RIDGEFIELD PARK, HJ. (4. Generator's Phone (201) 440-7672	7660 _{(1023) (10}	• • •	*			
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	7. Transporter 2 (Company Name)	8. US EPA ID Numb	oer !		FOR INTE		
	9. Designated Facility Name and Site Address NEW YORK OIL RECOVERY, INC. 94 HAUSMAN STREET	10. US EPA ID Num	nber				
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DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF HAZARDOUS SUBSTANCES REGULATION

HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212

a contact than and

	Generator's US EPA No.	-		2. Page 1			shaded areas
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3 Generator's Name and Mailing Address ATTA U.S.ARMT COMMUNICATION BI C70 Joseph Fallon, Bldg. 1 4. Generator's Phone (732 532 622	SERELPH-PH-E ECTRONIC CON 73 FT HOUNO	y Hand <i>y</i> hath	POST	B. General	or's ID	3264 Police 0	idistrinati
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9. Designated Facility Name and Site Address NSW YORK OIL RECOVERY, IN		A ID Number		G, State F	acility's ID	· setti i	rgy Caracast
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 GENERATOR'S CERTIFICATION: I hereby d are classified, packed, marked and labeled, and are in ment regulations and state laws and regulations. 	ectare that the contents of the all respects in proper condition	is consignment are fu on for transport by hig	lly and accur hway accord	alely described ling to applica	f above by po ble internatio	roper shippin mal and natio	onal govern-
If I am a large quantity generator, I certify that I have nomically practicable and that I have selected the practic health and the environment; OR II I am a small generavallable to me and that I can afford.	able method treatment, storage	e, or disposal currently a	vallable to me	e which minimia	es lhe presen	el and future li	hreal to human
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20. Facility Owner or Operator: Certification of re	ecolpt of hazardous mate	itals covered by thi	s manifest	except as no	oted in Item	n 19.	
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	3. Generator's Name and Mailing Address							
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1	Main Post - c/o Jo	seph Fallon,	Bldg.	173				
	A CATION SPACE SELFM-PW-EV	Fort Monmout	h, NJ	07703				
	4. Generator Phone ELFM - PW - EV	D-533-422	3 US EPA II	Number		A State Trans	porter's ID JA 376	
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	in proper condition for transport. The materials	described on this manifest are not a	subject to federal	hazardous waste re	gulations.			
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Oil Recovery

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FUEL TANK MAINTENANCE			6	B. Transporter	1 Phone (201)	440-76
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4. Generator's Phone (732) 532-6223 FORT MONMO				
5. Transporter 1 Company Name 6.	US EPA ID Number	A State Tre	insporter's ID JA 37	
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7. Transporter 2 Company Name 8.	US EPA ID Number	C. State Tre	ensporter's ID	
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NEW YORK OIL RECOVERY, INC.				
94 HAUSMAN STREET		F. Facility's	Phone	
BROOKLYN, NY 11222	IYD981141872	(718) 599-5120	
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PA Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

1 — TSD MAIL TO-TSD'S STATE

State of New Jersey Department of Environmental Protection Hazardous Waste Regulation Program Manifest Section CN 404



CN 421, Trenton, NJ 08625-0421 type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-96 1. Generator's US EPA ID No. Manifest 2. Page 1 **UNIFORM HAZARDOUS** Information in the shaded areas is not required by Federal law WASTE MANIFEST Generator's Name and Mailing Address inications Electronics Command SELFM-PW-EV. Fort Normouth, NO 07703 US EPA ID Number E. State Trans. ID-NJDEPE | Designated Facility Name and Site Address US EPA ID Number Decal No. RDI, PO. BOXSA F. Transporter's Phone (G. State Facility's ID MJD01814104416104 OID Brdce, NJ 0885 H. Facility's Phone (108) US DOT Description (Including Proper Shipping Name, Hazard Class or Division, ID Number and Packing Group) Type Quantity WASTE COMbustible Liquid, N.O.S., Combustible Liquid NA 1993, PMG III XX/17/X38/73 Ь С d Additional Descriptions for Materials Listed Above K. Handling Codes for Wastes Listed Above Bid6 1220 81533-176- C2,000 GAI 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 faith effecto minimize my waste generation and select the best waste management method that is available to me and that I can afford Signature Transporter 1 Acknowledgement of Red Signature Month Day Yea Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Day Month 9. Discrepancy Indication Space Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19 Printed/Typed Name Signature Month Day

SIGNATURE AND INFORMATION MUST BE LEGIBLE ON ALL COPIES



State of New Jersey Department of Environmental Protection Hazardous Waste Regulation Program **Manifest Section**

CN 421, Trenton, NJ 08625-0421 Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.) UNIFORM HAZARDOUS **WASTE MANIFEST** ATIN' SELFM-PW-EV, FORT Novmound Generator's Phone (103) 533 (23) US EPA ID Number Transporter 1 Company Name HVMEE Transporter 2 Company Name Designated Facility Name and Site Address US EPA ID Numbe ROI ROBOX SA MIDDOSYOUNDE OLD BRIDGE AJ 08837 11. US DOT Description (Including Proper Shipping Name, Hazard Class or Division, ID Number and Packing Group) Combustable Liquid, N.O.S. a. Combust & Liquid NA 1993 PAR III b. R C. d. J. Additional Descriptions for Materials Listed III (13.10 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 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, Phave made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Printed/Typed Name

Printed/Typed Name 上村 水水 Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name

17. Transporter 1 Acknowledgement of Receipt of Materials

Signature

Signature

Signature

Month Day



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



on elite (12-pitch) typewriter.) Information in the shaded areas HASTE MANIFEST is not required by Federal law. US EPA ID Numbe ilal. Unit Wt∕Vo 13 1443 PH6 the lability, and are in all respects in proper condition for transport by highway according to applicable Caraty that have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be cable method of treatment; storage; or disposal currently available to me in the real part Month Day Signature TABLE CONTAINER TYPES Signature

APPENDIX D

UST DISPOSAL CERTIFICATES

APPENDIX E CONTAMINATED SOIL WEIGH TICKETS

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CERTIFIED WEIGHTMASTER WEIGHT TICKET	Directorate for In	on Fort Monimout nstallation Logistic New Jersey 0770	s, Sup Svcs Div.
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WEIGHT TICKET	Directorate for	Ison Fort Monmouth Installation Logistics, Sup Svcs Div. h, New Jersey 07703
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Fort Monmouth, New Jersey 0770		nstallation Logistics, Sup Svcs Div. New Jersey 07703		
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3 JAN 18 8814 Form 1871 -- August 1988

USAGPM 2718-

Client:

U.S. Army

Lab. ID#:

3292

DPW. SELFM-PW-EV

Date Rec'd:

21-Jan-98

Bldg. 173

Analysis Start:

22-Jan-98

Ft. Monmouth, NJ 07703

Analysis Complete:

23-Jan-98

Analysis:

OQA-QAM-025

UST Reg. #:

Matrix:

Soil

Closure #:

Analyst:

D.DEINHARDT

DICAR #:

Ext. Meth:

Shake

Location #:

BLDG, 1220

Ext. Meth:	Shake			Location #:		BLDG. 1220
Sample	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	TPHC Result (mg/kg)
3292.01	LOAD 1	1.00	15.83	75.01	198	5579.20
3292.02	LOAD 2	2.00	15.56	36.89	409	48340.02
3292.03	LOAD 3	1.00	15.26	78.93	195	7880.33
3292.04	LOAD 4	1.00	15.94	73.96	199	3821.84
3292.05	LOAD 5	1.00	15.46	68.42	222	6161.04
3292.06	LOAD 6	1.00	15.31	78.56	195	5327.26
3292.07	LOAD 7	1.00	15.02	76.68	204	1258.65
3292.08	LOAD 8	1.00	15.63	54.19	277	9365.84
3292.09	LOAD 9	1.00	15.95	79.17	186	8472.88
3292.10	LOAD 10	1.00	15.66	80.46	187	3415.00
3292.11	LOAD 11	1.00	15.30	81.20	189	3475.47
3292.12	LOAD 12	1.00	15.03	76.38	205	15465.17
METHOD BLANK	22-Jan-98	1.00	15.00	100.00	157	ND

ND = Not Detected

MDL = Method Detection Limit

Daniel K. Wright Laboratory Director

1

Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703

Tel (732)532-4359 Fax (732)532-3484 EMail:appleby@doim6.monmouth.army.mil

NJDEP Certification #13461

Chain of Custody Record

Customer:	レてエ	Project No:				<u></u>	Analy	sis Parame	ters		Comments:
Phone#: 732-)DERA ()OMA			BLDG 1			Ų					·
Samplers Name / Co	ompany: HARRY H. EZ	1AS, EZ7	·Z-	Sample	#	2000					
Lab Sample I.D.	Sample Location	Date	Time	Туре	bottles	10					Remarks / Preservation Method
01 (017)	EXCHUATION OF	1-21-98	6857	SCIL	1	X					
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linquished by (signatu		Received by	79		Relind	juished by	(sjgnature):	Date/1	ime: R	eceived by ((signature):
)Reduced, (_)Standard, (_)Scre					Remarks:					

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CERTIFIED WEIGHTMASTER WEIGHT TICKET	Directorate for In Fort Monmouth,	son Fort Monmouth nstaliation Logistics , New Jersey 0770	, Sup Svcs Div.
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CERTIFIED WEIGHTMASTER WEIGHT TICKET	Directorate for Ir	on Fort Monmouth estallation Logistics New Jersey 07703	, Sup Svcs Div.
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SELFE Form 1877 August 1986		1 June 194 10	
CERTIFIED WEIGHTMASTER WEIGHT TICKET	Directorate for in	on Fort Monmouth nstallation Logistics, Sup Svcs Div. New Jersey 07703	
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	30. 300	Lbs. NET	
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CERTIFIED WEIGHTMASTER		son Fort Monmouth	<u></u>
CERTIFIED WEIGHTMASTER WEIGHT TICKET	Directorate for	son Fort Monmouth Installation Logistics,	Sup Svcs Div.
	Directorate for	son Fort Monmouth Installation Logistics, I, New Jersey 07703	Sup Svcs Div.
	Directorate for Fort Monmouth were	son Fort Monmouth Installation Logistics, I, New Jersey 07703	Sup Svcs Div.
	Directorate for Fort Monmouth west	son Fort Monmouth Installation Logistics, I, New Jersey 07703	Sup Svcs Div.
	Directorate for Fort Monmouth west	son Fort Monmouth Installation Logistics, I, New Jersey 07703	Sup Svcs Div.
	Directorate for Fort Monmouth WEIGHT 57810 30,710	son Fort Monmouth Installation Logistics, I, New Jersey 07703	Sup Svcs Div.
	Directorate for Fort Monmouth west	son Fort Monmouth Installation Logistics, I, New Jersey 07703	Sup Svcs Div.
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Client:

U.S. Army

Lab. ID #:

3314

DPW. SELFM-PW-EV

Date Rec'd:

02-Feb-98

Bldg. 173

Analysis Start:

05-Feb-98

Ft. Monmouth, NJ 07703 Analysis Complete:

06-Feb-98

Analysis:

OQA-QAM-025

UST Reg. #:

Matrix:

Soil

Closure #:

Analyst:

D.DEINHARDT

DICAR #:

Ext Moth

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Location #

BLDC 1990

Ext. Meth:	Shake				BLDG. 1220	
Sample	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	TPHC Result (mg/kg)
3314.01	LOAD 1	1.00	15.78	77.72	192	555.11
3314.02	LOAD 2	1.00	15.67	77.22	194	1284.95
3314.03	LOAD 3	1.00	15.36	78.00	196	523.44
3314.04	LOAD 4	1.00	15.48	78.53	193	440.35
3314.05	LOAD 5	1.00	15.29	78.07	197	680.49
3314.06	LOAD 6	1.00	15.95	75.48	195	419.47
3314.07	LOAD 7	1.00	15.01	77.08	203	742.49
3314.08	LOAD 8	1.00	14.99	78.66	199	607.84
3314.09	LOAD 9	1.00	15.71	79.38	188	506.72
3314.10	LOAD 10	1.00	15.50	79.03	192	513.15
3314.11	LOAD 11	1.00	15.23	81.01	190	496.19
3314.12	LOAD 12	1.00	15.89	79.99	185	379.71
3314.13	LOAD 13	1.00	15.58	83.03	182	388.11
3314.14	LOAD 14	1.00	15.46	78.83	193	388.28
3314.15	LOAD 15	1.00	15.97	78.00	189	522.13
3314.16	LOAD 16	1.00	15.29	78.52	196	ND
3314.17	LOAD 17	1.00	15.67	77.79	193	1416.28
3314.18	LOAD 18	1.00	15.96	79.79	185	502.76
3314.19	LOAD 19	1.00	15.12	77.42	201	1010.49
3314.20	LOAD 20	1.00	15.58	79.01	191	270.51
3314.21	LOAD 21	1.00	15.42	79.00	193	327.23
3314.22	LOAD 22	1.00	15.40	79.15	193	1057.62
METHOD BLANK	5-Feb-98	1.00	15.00	100.00	157	ND

ND = Not Detected

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MDL = Method Detection Limit

Daniel K. Wright Laboratory Director

1

Fort Monmouth Environmental Testing Laboratory

Bldg. 173. SELFM-PW-EV, Fort Monmouth, NJ 07703

NJDEP Certification #13461

Tel (732)532-4359 Fax (732)532-3484 EMail:appleby@doim6.monmouth.army.mil

Chain of Custody Record

Analysis Parameters Comments: **Customer:** Project No: Location: BLDG 1270 389-2210 Phone #: ()DERA ()OMA ()Other: **C**🗗 UST REMOVALS Samplers Name / Company : Home H. Elias Sample ECTI Remarks / Preservation Method Lab Sample I.D. Sample Location Date Time Type bottles 3314 SOIL 0832 0840 0438 0946 1035 1045 1116 iUS3 12:32 12 257 LUAT LOAN Religiuished by (signature): Date/Time: Received by (signature): Relinquished by (signature): Date/Time: Received by (signature): Relinquished by (signature): Received by (signature): Date/Time: Relinquished by (signature): Received by (signature): Date/Time: Report Type: ()Full, ()Reduced, ()Standard, ()Screen / non-certified Remarks: Turnaround time: (_)Standard 4 wks, (_)Rush Days, ()ASAP Verbal Hrs.

Fort Monmouth Environmental Testing Laboratory

Bidg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703

Tel (908)532-4359 Fax (908)532-3484 EMail:appleby@doim6.monmouth.army.mil

NJDEP Certification #13461

Chain of Custody Record

Customer:	マエ	Project No:						Ana	lysis l	Param	eters	· · · · · ·		Comments:
Phone #: 389	r- 2210	Location:	31dg 12	20										
()DERA ()OMA ()Other:		Location: BLG [220 UST ROMOVAL											
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Lab Sample I.D.	Sample Location	Date	Date Time Type bottles											Remarks / Preservation Method
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	Fort Monmout	h, New Jersey 07	7703
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SEL14 Form 1871 — August 1986

DATE

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DRIVER OFF

DRIVER ON

WEIGHMASTER

Client:

U.S. Army

Lab. ID#:

3266

DPW. SELFM-PW-EV

Ft. Monmouth, NJ 07703

Date Rec'd:

06-Jan-98

Bldg. 173

Analysis Complete:

Analysis Start:

06-Jan-98

Analysis:

OQA-QAM-025

UST Reg. #:

07-Jan-98

Matrix:

Closure #:

Analyst:

Soil

D.DEINHARDT

DICAR #:

Ext. Meth:	th: Shake Location #:								
Sample	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	TPHC Result (mg/kg)			
3266.01	C-1	1.00	15.66	80.93	185	4150.56			
3266.02	C-2	1.00	15.63	80.67	186	4251.92			
3266.03	C-3	1.00	15.62	81.09	186	10371.29			
3266.04	C-4	1.00	15.43	80.66	189	11572.24			
3266.05	C-5	1.00	15.51	78.17	194	9457.50			
METHOD BLANK	6-Jan-98	1.00	15.00	100.00	157	ND			

ND = Not Detected

MDL = Method Detection Limit

Laboratory Director

For Monmouth Environmental resting Laboratory

Bldg. 173, SELFM-PW-LV. Fort Monmouth. NJ 07703 🦠

Lef (732)532-1359 Fax (732)532-3484 EMail:appleby a dointo:monmonth army.inif

Chain of Custody Record

NJDEP Certification #13461

Customer: 807	T	Project No	UST	Remo	Removals		Ana	ilysis Pa	rameters		Comments:	Comments:
	-389-2210	Location.	BLDG	1220	,			i : !				
()DERA ()OMA ()Other:	<u> </u>				1 2						
Samplers Name / Cor	mpany: Just JAVA	Di, EZT	エ	Sample	#	JH.CA		!				
Lab Sample LD	Sample Location	Date	lime	Type	bottles	, -		;	-	1	Remarks / Preservat	ion Method
201C-1	FIRST LODD	1/5/98	1015	Soil	1							
C-2	Seron LOAD	l'i	1100	11	1							
r C-3	THIRD LOAD FIFTH LOAD		1150									
	POUNTH LAD		1256									
V C-4 C-5	FIFTH LOAD	1	1430		V	<u> </u>						
					-							
												•
												. ,
											<u> </u>	_
				<u></u>								
Reliminationed by signaria		Received by (· .		Reline	juished by	(signature): <u>I</u>	Date/Time:	Receive	d by (signature):	
Harry W. Z. Ke	7		Lu	<u> </u>							·	
Relinquished by (signatu	re): Date/Γime: //	Received by	signature):		Relino	juished by	(signature): 1	ate/Time:	Receive	d by (signature):	
Report Type: (_)Full, (_)	Reduced, (_)Standard, (_)Scree	en / non-certifi	ed			Remarks						
Turnaround time: (_)Stand		, (_)ASAP V		rs.				ESULT	s to	908	-276-7975	
						<u> </u>						

print legibly Page ____ of

~me042d.xls12/16/97

APPENDIX F SOIL ANALYTICAL DATA PACKAGE

Client:

U.S. Army

Lab. ID #:

3323

DPW. SELFM-PW-EV

Date Rec'd:

06-Feb-98

Bldg. 173

Analysis Start:

06-Feb-98

Ft. Monmouth, NJ 07703

Analysis Complete:

07-Feb-98

Analysis:

OQA-QAM-025

UST Reg. #:

Matrix:

Soil

Closure #:

Analyst:

D.DEINHARDT

DICAR #:

Location #:

100.00

15.00

BLDG. 1220

Ext. Meth:

Shake

Sample	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	TPHC Result (mg/kg)	
3323.01	P.E. 1	1.00	15.56	80.78	187	ND	
3323.02	P.E. 2	1.00	15.04	79.80	196	ND	
3323.03	P.E. 3	1.00	15.37	79.71	192	196.51	
3323.04	P.E. 4	1.00	15.25	70.50	219	240.23	
3323.05	P.E. 5	1.00	15.32	78.80	195	ND	
3323.06	P.E. 6	1.00	15.52	75.75	200	249.60	
		ļ					
		·					
		<u> </u>	<u> </u>	<u> </u>			
	<u> </u>	-			<u> </u>		
		<u> </u>		ļ			
	<u> </u>	<u> </u>	<u> </u>				
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	<u> </u>		 	-			
	<u> </u>						
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	<u> </u>	<u> </u>					
	ļ		ļ				

ND = Not Detected

METHOD BLANK

MDL = Method Detection Limit

6-Feb-98

1.00

Daniel K. Wright Laboratory Director

157

ND

Client:

61.1

U.S. Army

Lab. ID#:

3303

DPW. SELFM-PW-EV

Ft. Monmouth, NJ 07703

Date Rec'd:

29-Jan-98

Bldg. 173

Analysis Complete:

02-Feb-98

Analysis Start:

02-Feb-98

Analysis:

OQA-QAM-025

UST Reg. #:

Matrix:

Soil

Closure #:

Analyst:

D.DEINHARDT

DICAR #:

Shak

cation #

Ext. Meth:	Shake			Location #:		Bldg 1220
Sample	Field II)	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	TPHC Result (mg/kg)
3303.01	PS-1	1.00	15.36	83.82	183	ND
3303.02	PS-2	1.00	15.01	82.00	191	712.28
3303.03	PS-3	1.00	15.90	72.37	204	280.63
3303.04	PS-4	1.00	15.16	74.73	207	ND
3303.05	PS-5	1.00	15.96	81.20	181	511.31
3303.06	PS-6	1.00	15.37	78.80	194	431.79
METHOD BLANK	2-Feb-98	1.00	15.00	100.00	157	ND

ND = Not Detected

MDL = Method Detection Limit

Daniel K. Wright Laboratory Director

Client:

U.S. Army

Lab. ID#:

3307

DPW. SELFM-PW-EV

Date Rec'd:

30-Jan-98

Bldg. 173

Analysis Start:

02-Feb-98

Ft. Monmouth, NJ 07703

Analysis Complete:

02-Feb-98

Analysis:

OQA-QAM-025

Matrix:

Soil

UST Reg. #: Closure #:

Analyst:

D.DEINHARDT

DICAR #:

=						
Ext. Meth:	Shake			Location #:		Bldg 1220
Sample	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	TPHC Result (mg/kg)
3307.01	Hole #1	1.00	15.29	75.64	203	476.63
3307.02	Hole #2	1.00	15.07	70.24	222	ND
3307.03	Hole #3	1.00	15.50	78.70	193	ND
METHOD BLANK	2-Feb-98	1.00	15.00	100.00	157	ND

ND = Not Detected

MDL = Method Detection Limit

Daniel K. Wright Laboratory Director

APPENDIX G GROUNDWATER ANALYTICAL DATA PACKAGE

FORT MONMOUTH ENVIRONMENTAL

TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS

PHONE: (732)532-6224 FAX: (732)532-3484

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

NJDEP LABORATORY CERTIFICATION # 13461



ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: UST Program

BLDG. 1220

Field Location No. &	Laboratory	Matrix	Date and Time	Date Received
Location	Sample ID#		Of Collection	
Trip Blank	4035.01	Aqueous	06-Nov-98	11/06/98
Field Blank	4035.02	Aqueous	06-Nov-98 09:29	11/06/98
Bldg. 1220 B-1 16'-19'	4035.05	Aqueous	06-Nov-98 13:30	11/06/98
Bldg. 1220 B-1 16'-19'	4035.06	Aqueous	06-Nov-98 14:15	11/06/98
Bldg. 1220 B-2 18'-21'	4035.07	Aqueous	06-Nov-98 13:50	11/06/98
Bldg. 1220 B-2 18'-21'	4035.08	Aqueous	06-Nov-98 14:30	11/06/98

ANALYSIS: FORT MONMOUTH ENVIRONMENTAL LAB. VOA+15, BN+15

Daniel Wright/Date
Laboratory Director

12-8-54

ENCLOSURE: CHAIN OF CUSTODY FIELD DOCUMENTATION RESULTS

Table of Contents

Section	<u>Pages</u>
Chain of Custody	1-2
Field Documentation	3-5
Methodology Review	6-7
Conformance/Non-Conformance Summary	8-10
Laboratory Chronicle	11-12
Volatile Organics	13-14
Analytical Results Summary	15-24
Tune Results Summary	25-28
Method Blank Results Summary	29
Calibration Summary	30-33
Surrogate Recovery Summary	34
MS/MSD Results Summary	35-36
Internal Standard Area & RT Summary	37
Chromatograms	38-47
Base Neutrals	48
Analytical Results Summary	49-56
Tune Results Summary	57-62
Method Blank Results Summary	63
Calibration Summary	64-71
Surrogate Recovery Summary	72
MS/MSD Results Summary	73
Internal Standard Area & RT Summary	74-76
Chromatograms	77-84
Laboratory Deliverables Checklist	85
Laboratory Authentication Statement	86

CHAIN OF CUSTODY

Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-3484 EMail:appleby@doim6.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Custo	mer: Cun	Alla	ESY / WESAL	Project No:						Ana	lysis I	aram	eters		1	Comments:
	#: 1202	24	./	Location: 2	BLIG, 1700 - CW-1 2504 + BC	-117,		V	Ø							,
	A (NOMA)			<u></u>			20	0	N							
Sample	ers Name / Co	npany :	MARK LAU	MA TUS	3	Sample	#	4	+							
	Sample I.D.	Sa	mple Location	Date	Time	Туре	bottles	15	15							Remarks / Preservation Method
40	35. 1	This	BLANK	11-6-98		AQ.	2	×			<u> </u>					HCL
	2	FIELD	BLANK	"	0929	61	3	×	*							HOL/ 24°C
	3	2700 - CI	W-1-PIT = 5/4.51	11	0953	11	2	X								SAMPLES FOR CAMS. APAGE [FICE] + JOSEPH FACCONS
	4	BLOG. Z	504 - 89-11.91	(1	1100	()	3	×	×	ļ						400/2400
	5	BLOG.	220-8-1-16-19	",	1330	11	2	×								HCL
	6	p1	4-8-1- 11	И	1415	L)	1		X							eyoc
	7	BUG.	18-21' 1220-8-2 - 16-19' /	o 4	1350	1,	2	X				1				HCC
	8	BLOG.	1220-8-2- "	l;	1430	1,	1		×							2400
	9		Duf.	11		ι,	3	X	×							HCL/44°C
	(m) 10-															
		_														
				1												
Relinqui	ished by (signatu	re):	Date/Time:	Received by	(signature):		Relin	quished	by (sig	mature)) :	Date/	Time:	Recei	ved by	(signature):
Monther 11-6-98 1515 ///////																
Relinqui	Relinquished by (signature): Date/Time: Received by (signature): Relinquished by (signature): Date/Time: Received by (signature):									(signature):						
Report T	Report Type: (_)Full, (_)Reduced, (_)Standard, (_)Screen / non-certified Remarks:															
	_		cs, (_)Rush Days			s.										

FIELD DOCUMENTATION

Post Remedial Groundwater Sampling at Former Underground Storage Tank Site [# 2 fuel oil]

FOR BLDG. # 1220- [B-2]

Ground Water Sampling with the use of a Passively Placed Narrow Diameter Point (PPNDP)

Objective:

To collect a representative groundwater sample utilizing a narrow diameter point [PPNDP] This is a small diameter [1-inch OD] screened casing passively placed in a borehole. The casing is of p.v.c. construction.

1. Methods

A. A solid push - rod (bull point) is used to create a narrow diameter hole to a depth below the water table. A piece of schedule 40 PVC screen with 0.010-inch slots and an end cap is placed to the bottom of the hole. Glues or adhesives are not used for joining the casing. Threaded PVC casing is used. No filter or gravel pack is used.

2. Installation

- A. Using a Geoprobe, a borehole was advanced with a pre-probe with a diameter slightly larger than the casing. The hole was made to a depth of 22 feet. The water table was at 18 feet below ground surface.
- B. The screened section of PVC was placed into the borehole so the screened section was across the ground water table from 17 22 feet. Riser casing from 17 +3 feet.

3. Purging

A. Three volumes of the standing water in the point were purged. The amount of water extracted was app. 0.123 gal. Three to five volumes are purged due to the potential for cross contamination of the screen from upper soil horizons. This was accomplished utilizing a peristaltic pump, and utilizing food grade tubing.

4. Sampling

A. Sampling methods, sample preservation requirements, sample handling times, decontamination procedure for field equipment, and frequency for field blanks, field duplicates and trip blanks conform to applicable industry methods such as those specified in the NJDEP "Field Sampling Procedures Manual" in effect as of the date on which sampling is performed. Any deviations from the methods in the "Field Sampling Procedures Manual" pursuant to N.J.A.C. 7:26E-1.6(c) has been approved by the person responsible for conducting the remediation.

All samples were preserved in the field immediately after collection and submitted to the laboratory as soon as possible and no later than 48 hours after sample collection.

The acquisition of samples and water level measurements were performed as recommended and described in the May 1992 edition of NJDEP Field Sampling Procedures Manual.

5. Quality Assurance/Quality Control

A. Decontamination

The associated equipment (bull point, riser pipe, etc.) was decontaminated between borings using the following procedure:

- 1. Remove all adherent soil material.
- 2. Wash with a laboratory grade glassware detergent.
- 3. Rinsed with potable water.
- 4. Rinse with distilled and deionized ASTM Type II water.

B. Field Blanks

- 1 Field blank was shared with bldg. 2700 CW-1 taken same day.
- C. Sample bottles: Supplied by Environmental Sampling Supply, Oakland, Calif. The sample bottles are certified clean and are sealed upon delivery.
- D. P.V.C. Screens: Supplied by Bedrock Enterprises, Forked River N.J.

Geoprobe Operator: Mark Laura

Employer: U.S. Army, Fort Monmouth

Phone Number: [732] 532-8990

NJDEP License #: J-1486

Matthe 12-2-98 Mark Laura / Date

METHODOLOGY SUMMARY

Methodology Summary

EPA Method 624 Gas Chromatographic Determination of Volatiles in Water

FF 1

Surrogates and internal standards are added to a 5 ml aliquot of sample. The sample is then purged and desorbed into a GC/MS system. The organic compounds are separated by the gas chromatograph and detected using the mass spectrometer. Volatiles are identified and quantitated.

EPA Method 3510/8270 Gas Chromatographic Determination of Semi-volatiles in Water

Surrogates are added to a measured volume of sample, usually 1 liter, at a specified pH. The sample is serially extracted with Methylene Chloride using a separatory funnel. The extract concentrated and internal standards are added. The sample is injected into a GC/MS system. Semi-volatiles are identified and quantitated.

CONFORMANCE/ NON-CONFORMANCE SUMMARY

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT

			Indicate Yes, No, N/A
1.	Chromatograms lal	beled/Compounds identified	
		and method blanks)	yes
2.	Retention times for	chromatograms provided	400
3.	GC/MS Tune Spec	ifications	
	a.	BFB Meet Criteria	Yes
	b.	DFTPP Meet Criteria	Yes-
4.		equency - Performed every 24 hours for 600	
	series and 12 hours	for 8000 series	-400
5.		n – Initial Calibration performed before sample	
		uing calibration performed within 24 hours of 600 series and 12 hours for 8000 series	yes_
6.	GC/MS Calibration	n requirements	
	a.	Calibration Check Compounds Meet Criteria	_yes
	b.	System Performance Check Compounds Meet Criteria	-yes
7.	Blank Contamination	on - If yes, List compounds and concentrations in each blank:	<u> 100</u>
	a.	VOA Fraction	
	b.	B/N Fraction	
	c.	Acid Fraction NA	
8.	Surrogate Recoveri	es Meet Criteria	405
	If not met, list outside the acc	those compounds and their recoveries, which fall eptable range:	,
	a.	VOA Fraction	
	ъ.	B/N Fraction	
	C.	Acid Fraction AJA	
	If not met, wer as "estimated"	re the calculations checked and the results qualified?	
9.	Matrix Spike/Matri	ix Spike Duplicate Recoveries Meet Criteria	1000
	(If not met, list tho	se compounds and their recoveries, which fall	l
	outside the accepta	ble range)	
	a.	VOA Fraction	
	ь.	B/N Fraction	
	C.	Acid Fraction / JA-	

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT (cont.)

			Indicate Yes, No, N/A
10.		Area/Retention Time Shift Meet Criteria ose compounds, which fall outside the acceptable range)	<u>40</u>
	a.	VOA Fraction	
	ь.	B/N Fraction	
	c.	Acid Fraction_	
11.	Extraction Holdin	g Time Met	yes_
	If not met, list the	number of days exceeded for each sample:	
12.	Analysis Holding	Time Met	40
	If not met, list the	number of days exceeded for each sample:	,
Add	litional Comments:	lomed on 4035.04 19140,2504 8.941.9	
Lab	oratory Manager:	Date: 12-4-94	

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY NJDEPE # 13461

Definition of Qualifiers

MDL: Method Detection Limit

J : Compound identified below detection limit
 B : Compound in both sample and blank
 D : Results from dilution of sample
 U : Compound searched for but not detected

Volatue Analysis Keport U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Nam VB02067.D

Sample Name

VBLK64

Operator Skelton

Field ID

VBLK64

Date Acquired 10 Nov 98 3:32 pm

Sample Multiplier

1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethan			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ethe			not detected	nie	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloroprope			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane]		not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD I)
---------	---

Lab Name:	FMETL		Project	980932	Vblke	64
NJDEP#	13461	Case No.: 4035	SDG	No	Location UST	Γ
Matrix: (soil/	water)	WATER	Ł	.ab Sample	ID: VBLK64	
Sample wt/vo	ol:	5.0 (g/ml) ML		.ab File ID:	VB02067.D	
Level: (low/r	ned)	LOW	ľ	Date Receiv	/ed: 11/06/98	
% Moisture:	not dec.			Date Analyz	red: 11/10/98	
GC Column:	HP5M	S ID: 0.25 (mm)	E	Dilution Fac	tor: <u>1.0</u>	- -
Soil Extract \	Volume:	(uL)	\$	Soil Aliquot	Volume:	(uL)
Number TICs	s found:	0	CONCENTR. (ug/L or ug/K			
CAS NO.		COMPOUND NAME		RT	EST. CONC.	Q

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

Data File Nam vb02079.d

Sample Name

4035.01 Trip Blank

Operator Date Acquired 11 Nov 98 12:38 am

Skelton

Field ID

Sample Multiplier

1

CAS#	Compound Name	R. <u>T</u> .	Response	Result	Regulatory Level (ug/l)*	_ MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol		T T	not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	пle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethan			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1.1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone		 	not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene		-	not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ethe			not detected	nle	0.65 ug/L	
	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloroprope			not detected	nle	0.87 ug/L	
	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
	Tetrachloroethene			not detected	1	0.32 ug/L	
	2-Hexanone			not detected	nle	0.71 ug/L	
	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene		1	not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
	1,1,2,2-Tetrachloroethan			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

R.T. = Retention Time

1E VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Lab Name:	FMETL			Project	980932		Tr	ip Blar	ık
NJDEP#	13461	Cas	e No.: 4035	SDG N	lo	Loc	cation	UST	
Matrix: (soil/	water)	WATER		La	ab Sample	D: 4	4035.01	·	
Sample wt/ve	ol:	5.0	(g/ml) ML	La	ab File ID:	,	VB0207	9.D	 -
Level: (low/r	ned)	LOW		D	ate Receiv	ved: _	11/06/9	В	_
% Moisture:	not dec.			D	ate Analyz	zed: _	11/11/9	B	
GC Column:	HP5M	S ID: 0.2	5 (mm)	D	ilution Fac	tor: _	1.0		_
Soil Extract \	Volume:		_ (uL)	S	oil Aliquot	Volun	ne:		_ (uL)
				CONCENTRA	TION UN	ITS:			
Number TICs	s found:	0	-	(ug/L or ug/Kg) UG	/L			
CAS NO.		COMPOU	ND NAME		RT	ES1	r. con	C.	Q

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

Data File Nam vb02080.d Operator Skelton

80.d Sample Name on Field ID 4035.02 Field Blank

Date Acquired 11 Nov 98 1:23 am

Sample Multiplier

1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	, MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	l
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethan			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	<u> </u>
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.46 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.13 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone	-		not detected	300	0.62 ug/L	
10 75 5	cis-1,2-Dichloroethene			not detected	10	0.02 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.30 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.23 ug/L	
79-01-6	Trichloroethene			not detected	1 1	0.13 ug/L 0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.40 ug/L	
110-75-8	2-Chloroethyl vinyl ethe			not detected	nle	0.65 ug/L	
10061-01-5				not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
	trans-1,3-Dichloroprope			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.87 ug/L 0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	 	0.48 ug/L 0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.32 ug/L 0.71 ug/L	
	Dibromochloromethane			not detected	10	0.71 ug/L 0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.80 ug/L 0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected			
1330-20-7	o-Xylene				nle	1.14 ug/L	
100-42-5	Styrene			not detected	nle	0.62 ug/L	
				not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

1E **VOLATILE ORGANICS ANALYSIS DATA SHEET**

FIELD ID TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	FMETL			Project	980932		rieid	siank
NJDEP#	13461	Cas	e No.: 4035	SDG N	lo	Loc	cation <u>US</u>	ST
Matrix: (soil/	water)	WATER		La	ab Sample	ID: 4	4035.02	
Sample wt/v	ol:	5.0	(g/ml) ML	La	ab File ID:	_	VB02080.D	
Level: (low/i	med)	LOW		D	ate Receiv	red: 1	11/06/98	
% Moisture:	not dec.			D	ate Analyz	ed: _	11/11/98	
GC Column:	HP5M	S ID: 0.2	25 (mm)	D	ilution Fac	tor: _	1.0	
Soil Extract	Volume:		_ (uL)	S	oil Aliquot	Volun	ne:	(uL)
Number TIC	s found:	0		CONCENTRA (ug/L or ug/Kg			<u>.</u>	
CAS NO		COMPOU			RΤ	FS1	r conc	

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

Data File Nam vb02084.d

Sample Name

4035.07

Operator

Skelton

Field ID

Bldg 1220-B-2

Date Acquired 11 Nov 98 4:25 am

Sample Multiplier

1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	· · · · · · · ·
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
130232	Dichlorodifluoromethan			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane	8.54	590725	8.51 ug/L	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene	<u> </u>	7,0,20	not detected	2	0.24 ug/L	
67-64-1	Acetone	10.51	54498	7.47 ug/L	700	1.36 ug/L	
75-15-0	Carbon Disulfide	10.51	31130	not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride	-		not detected	2	0.40 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.10 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
18-23-3	cis-1,2-Dichloroethene			not detected	10	0.02 ug/L 0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.30 ug/L 0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.23 ug/L 0.47 ug/L	
71-43-2	Benzene			not detected	1	0.47 ug/L 0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.23 ug/L	
79-01-6	Trichloroethene			not detected	1	0.18 ug/L	
78-87-5	1,2-Dichloropropane			not detected	+ - ; -	0.23 ug/L 0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.40 ug/L 0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ethe			not detected	nle	0.65 ug/L	
	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone	-		not detected	400	0.59 ug/L	
108-10-1	Toluene			not detected	1000	0.39 ug/L 0.37 ug/L	
	trans-1,3-Dichloroprope			not detected	nle	0.37 ug/L 0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.87 ug/L 0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1 1	0.48 ug/L 0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
	Dibromochloromethane		· · · · · ·	not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4 700	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	 -
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene		لحجيجا	not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

1E

F: 7

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Lab Name: I	FMETL			Project	980932		Bldg	1220-E	3-2
NJDEP#	13461	Ca	se No.: 4035	SDG N	ю	Lo	cation	UST	
Matrix: (soil/wa	ater)	WATER	_	La	b Sample	ID:	4035.07		
Sample wt/vol	:	5.0	(g/ml) ML	La	b File ID:	•	VB0208	4.D	_
Level: (low/m	ed)	LOW	_	Da	ate Receiv	ved:	11/06/98	3	_
% Moisture: no	ot dec.			Da	ate Analyz	zed:	11/11/98	}	_
GC Column: HP5MS ID: 0.25 (mm)				Dilution Factor: 1.0				_	
Soil Extract Vo	olume: _		_ (uL)	Sc	oil Aliquot	Volur	me:		_ (uL)
Number TICs	found:	0		ONCENTRA g/L or ug/Kg			 -		
CAS NO.		COMPOL	JND NAME		RT	ES	T. CONO	3 .	Q

BASE NEUTRALS

Semi-Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification #13461**

Data File Name bna01289.d

Sample Name

Sblk162

Operator

Skelton

Misc Info

Sblk162 A 981110

Date Acquired 18 Nov 1998 10:48 pm

Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	2.52 ug/I	,
62-75-9	N-nitroso-dimethylamine			not detected	20	2.64 ug/I	,
62-53-3	Aniline			not detected	NLE	2.90 ug/I	,
111-44-4	bis(2-Chloroethyl)ether			not detected	10	2.45 ug/I	, 🗀 🗀
541-73-1	1,3-Dichlorobenzene			not detected	600	2.65 ug/I	,
106-46-7	1,4-Dichlorobenzene			not detected	75	2.50 ug/I	
100-51-6	Benzyl alcohol			not detected	NLE	2.09 ug/I	,
95-50-1	1,2-Dichlorobenzene			not detected	600	2.44 ug/I	,]
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	2.96 ug/I	,
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	2.22 ug/I	
67-72-1	Hexachloroethane			not detected	10	2.59 ug/I	
98-95-3	Nitrobenzene			not detected	10	2.45 ug/I	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	2.54 ug/I	,
120-82-1	1,2,4-Trichlorobenzene	<u> </u>		not detected	9_	2.58 ug/I	.T
91-20-3	Naphthalene			not detected	NLE	3.03 ug/I	,
106-47-8	4-Chloroaniline			not detected	NLE	2.55 ug/I	,
87-68-3	Hexachlorobutadiene		,	not detected	1	0.64 ug/I	
91-57-6	2-Methylnaphthalene		11.2	not detected	NLE	2.49 ug/I	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.59 ug/I	
91-58-7	2-Chloronaphthalene			not detected	NLE	2.15 ug/I	
88-74-4	2-Nitroaniline			not detected	NLE	1.62 ug/I	
131-11-3	Dimethylphthalate			not detected	7000	2.74 ug/I	
208-96-8	Acenaphthylene			not detected	NLE	2.35 ug/I	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	1.54 ug/I	
99-09-2	3-Nitroaniline			not detected	NLE	1.62 ug/I	
83-32-9	Acenaphthene			not detected	400	1.98 ug/l	,
132-64-9	Dibenzofuran			not detected	NLE	2.13 ug/I	

Semi-Volatile Analysis Report Page 2

Data File Name bna01289.d

Sample Name

Sblk162

Operator

Skelton

Misc Info

Sblk162 A 981110

Date Acquired

18 Nov 1998 10:48 pm

Sample Multiplier 1

							
121-14-2	2,4-Dinitrotoluene		not detected	10	1.22	ug/L	
84-66-2	Diethylphthalate		not detected	5000	1.68	ug/L	
86-73-7	Fluorene		not detected	300	1.93	ug/L	
7005-72-3	4-Chlorophenyl-phenylether		not detected	NLE	1.53	ug/L	
100-01-6	4-Nitroaniline		not detected	NLE	2.70	ug/L	
86-30-6	n-Nitrosodiphenylamine		not detected	20	1.73	ug/L	
103-33-3	Azobenzene		not detected	NLE	1.92	ug/L	
101-55-3	4-Bromophenyl-phenylether		not detected	NLE	1.54	ug/L	
118-74-1	Hexachlorobenzene		not detected	10	1.88	ug/L	
85-01-8	Phenanthrene		not detected	NLE	1.67	ug/L	
120-12-7	Anthracene	1 1 1 1 1	not detected	2000		ug/L	
84-74-2	Di-n-butylphthalate		not detected	900	1.83	ug/L	
206-44-0	Fluoranthene		not detected	300	1.85	ug/L	
92-87-5	Benzidine		not detected	50	4.11	ug/L	
129-00-0	Pyrene		not detected	200	1.02	ug/L	
85-68-7	Butylbenzylphthalate		not detected	100	1.15	ug/L	
56-55-3	Benzo[a]anthracene		not detected	10	1.57	ug/L	
91-94-1	3,3'-Dichlorobenzidine		not detected	60	2.28	ug/L	
218-01-9	Chrysene		not detected	20	2.32	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate		not detected	30	1.29	ug/L	
117-84-0	Di-n-octylphthalate		not detected	100	1.30	ug/L	
205-99-2	Benzo[b]fluoranthene		not detected	10	1.31	ug/L	
207-08-9	Benzo[k]fluoranthene		not detected	2	1.57	ug/L	
50-32-8	Benzo[a]pyrene		not detected	20		ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene		not detected	20		ug/L	
53-70-3	Dibenz[a,h]anthracene		not detected	20		ug/L	
191-24-2	Benzo[g,h,i]perylene		not detected	NLE		ug/L	

Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

 $\mathbf{MDL} = \mathbf{Method\ Detection\ Limit}$

NLE = No Limit Established

R.T. = Retention Time

1**5** / 3

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Lab Name:	FMETL			La	ab Code 13461	Sblk162
Project	980932	C	ase No.: 4035		Location UST S	DG No.:
Matrix: (soil/	water)	WATER			Lab Sample ID:	Sblk162
Sample wt/ve	ol:	1000	(g/ml) <u>ML</u>	<u></u>	Lab File ID:	BNA01289.D
Level: (low/r	med)	LOW			Date Received:	11/06/98
% Moisture:		de	canted: (Y/N)	N	Date Extracted:	11/10/98
Concentrate	d Extract	Volume:	1000 (uL)		Date Analyzed:	11/18/98
Injection Vol	ume: 1.0	(uL)			Dilution Factor:	1.0
GPC Cleanu	ıp: (Y/N)	N	pH: <u>7</u>			

CONCENTRATION UNITS:

26.39

Number TICs found:	المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع	(ug/L or ug/Kg) UG/L				
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q		
1. 000301-02-0	9-Octadecenamide, (Z)-	23.23	23	JN		

unknown

Semi-Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification #13461**

Data File Name bna01291.d

Sample Name

4035.02

Operator

FI- 1

110

40. 21

Skelton

Misc Info

Field Blank

Date Acquired 19 Nov 1998 12:11 am

Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	2.52 ug/	L
62-75-9	N-nitroso-dimethylamine			not detected	20	2.64 ug/	L
62-53-3	Aniline			not detected	NLE	2.90 ug/	<u>L</u>
111-44-4	bis(2-Chloroethyl)ether			not detected	10	2.45 ug/	L
541-73-1	1,3-Dichlorobenzene	\bot		not detected	600	2.65 ug/	L
106-46-7	1,4-Dichlorobenzene			not detected	75	2.50 ug/	L
100-51-6	Benzyl alcohol		·	not detected	NLE	2.09 ug/	L
95-50-1	1,2-Dichlorobenzene			not detected	600	2.44 ug/	L
108-60-1	bis(2-chloroisopropyl)ether		11.1	not detected	300	2.96 ug/	L
621-64-7	n-Nitroso-di-n-propylamine		14.	not detected	20	2.22 ug/	L
67-72-1	Hexachloroethane		A Western	not detected	10	2.59 ug/	L
98-95-3	Nitrobenzene		1: - : -	not detected	10	2.45 ug/	<u>L</u>
111-91-1	bis(2-Chloroethoxy)methane		5 4 5	not detected	NLE	2.54 ug/	L
120-82-1	1,2,4-Trichlorobenzene			not detected	9	2.58 ug/	L
91-20-3	Naphthalene			not detected	NLE	3.03 ug/	<u>L</u>
106-47-8	4-Chloroaniline			not detected	NLE	2.55 ug/	L
87-68-3	Hexachlorobutadiene			not detected	1	0.64 ug/	L
91-57-6	2-Methylnaphthalene			not detected	NLE	2.49 ug/	L .
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.59 ug/	L
91-58-7	2-Chloronaphthalene			not detected	NLE	2.15 ug/	L
88-74-4	2-Nitroaniline			not detected	NLE	1.62 ug/	Ĺ
131-11-3	Dimethylphthalate			not detected	7000	2.74 ug/	L
208-96-8	Acenaphthylene			not detected	NLE	2.35 ug/	L .
606-20-2	2,6-Dinitrotoluene			not detected	NLE	1.54 ug/	L
99-09-2	3-Nitroaniline		a 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	not detected	NLE	1.62 ug/	L
83-32-9	Acenaphthene		11.17.17	not detected	400	1.98 ug/	L
132-64-9	Dibenzofuran			not detected	NLE	2.13 ug/	Ľ.

Semi-Volatile Analysis Report Page 2

Data File Name bna01291.d

Sample Name

4035.02

Operator

Skelton

Misc Info

Field Blank

Date Acquired

19 Nov 1998 12:11 am

Sample Multiplier 1

		· .					
121-14-2	2,4-Dinitrotoluene		not detected	10	1.22	ug/L	
84-66-2	Diethylphthalate		not detected	5000	1.68	ug/L	
86-73-7	Fluorene		not detected	300	1.93	ug/L	
7005-72-3	4-Chlorophenyl-phenylether		not detected	NLE	1.53	ug/L	
100-01-6	4-Nitroaniline		not detected	NLE	2.70	ug/L	
86-30-6	n-Nitrosodiphenylamine		not detected	20	1.73	ug/L	
103-33-3	Azobenzene		not detected	NLE	1.92	ug/L	
101-55-3	4-Bromophenyl-phenylether		not detected	NLE	1.54	ug/L	
118-74-1	Hexachlorobenzene		not detected	10	1.88	ug/L	
85-01-8	Phenanthrene		not detected	NLE	1.67	ug/L	
120-12-7	Anthracene		not detected	2000	1.79	ug/L	
84-74-2	Di-n-butylphthalate		not detected	900	1.83	ug/L	
206-44-0	Fluoranthene		not detected	300	1.85	ug/L	
92-87-5	Benzidine		not detected	50	4.11	ug/L	
129-00-0	Pyrene		not detected	200	1.02	ug/L	
85-68-7	Butylbenzylphthalate		not detected	100	1.15	ug/L	
56-55-3	Benzo[a]anthracene		not detected	10	1.57	ug/L	
91-94-1	3,3'-Dichlorobenzidine	11 mg	not detected	60	2.28	ug/L	
218-01-9	Chrysene		not detected	20	2.32	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate		not detected	30	1.29	ug/L	
117-84-0	Di-n-octylphthalate	·•· •	not detected	100	1.30	ug/L	
205-99-2	Benzo[b]fluoranthene		not detected	10	1.31	ug/L	
207-08-9	Benzo[k]fluoranthene		not detected	2	1.57	ug/L	
50-32-8	Benzo[a]pyrene		not detected	20	1.36	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene		not detected	20	1.22	ug/L	-
53-70-3	Dibenz[a,h]anthracene		not detected	20	3.12	ug/L	
191-24-2	Benzo[g,h,i]perylene		not detected	NLE	1.13	ug/L	

Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Lab Name:	FMETL			L	ab Code 13461	Fleid Blank
Project	980932	C:	ase No.: 4035		Location UST S	DG No.:
Matrix: (soil/	water)	WATER			Lab Sample ID:	4035.02
Sample wt/vo	ol:	1000	_ (g/ml) ML		Lab File ID:	BNA01291.D
Level: (low/r	med)	LOW			Date Received:	11/06/98
% Moisture:		de	canted: (Y/N)	N	Date Extracted:	11/10/98
Concentrated	d Extract	Volume:	1000 (uL)		Date Analyzed:	11/19/98
Injection Vol	ume: 1.0	(uL)			Dilution Factor:	1.0
GPC Cleanu	p: (Y/N)	<u>N</u>	pH: 7			

CONCENTRATION UNITS:

Number TICs found:	2	(ug/L or ug/Kg)	UG/L
		. (-3. –33)	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000301-02-0	9-Octadecenamide, (Z)-	23.24	27	JN
2.	unknown	26.40	62	J

Semi-Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification #13461**

Data File Name bna01294.d

Sample Name

4035.08

Operator

Skelton

Misc Info

Bldg 1220 B-2

Date Acquired 19 Nov 1998 2:16 am

Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	2.52 ug	/L
62-75-9	N-nitroso-dimethylamine			not detected	20	2.64 ug	/L
62-53-3	Aniline			not detected	NLE	2.90 ug	/L
111-44-4	bis(2-Chloroethyl)ether			not detected	10	2.45 ug	/L
541-73-1	1,3-Dichlorobenzene		1 2 6 T	not detected	600	2.65 ug	/L
106-46-7	1,4-Dichlorobenzene		<u>.</u>	not detected	75	2.50 ug	/L
100-51-6	Benzyl alcohol			not detected	NLE	2.09 ug	/L
95-50-1	1,2-Dichlorobenzene			not detected	600	2.44 ug	/L
108-60-1	bis(2-chloroisopropyl)ether		ិ ខេត្តស៊ីស្គ	not detected	300	2.96 ug	/L
621-64-7	n-Nitroso-di-n-propylamine		· Profession	not detected	20	2.22 ug	/L
67-72-1	Hexachloroethane		Link tid	not detected	_10	2.59 ug	/L
98-95-3	Nitrobenzene			not detected	10	2.45 ug	/L
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	2.54 ug	/L
120-82-1	1,2,4-Trichlorobenzene			not detected	9	2.58 ug	/L
91-20-3	Naphthalene			not detected	NLE	3.03 ug	/L
106-47-8	4-Chloroaniline			not detected	NLE	2.55 ug	/L
87-68-3	Hexachlorobutadiene			not detected	1	0.64 ug	/L
91-57-6	2-Methylnaphthalene			not detected	NLE	2.49 ug	/L
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.59 ug	/L
91-58-7	2-Chloronaphthalene			not detected	NLE	2.15 ug	/L
88-74-4	2-Nitroaniline			not detected	NLE	1.62 ug	/L
131-11-3	Dimethylphthalate			not detected	7000	2.74 ug	/L
208-96-8	Acenaphthylene			not detected	NLE	2.35 ug	;/L
606-20-2	2,6-Dinitrotoluene			not detected	NLE	1.54 ug	/L
99-09-2	3-Nitroaniline		20.0	not detected	NLE	1.62 ug	/L
83-32-9	Acenaphthene	•	5.01	not detected	400	1.98 ug	:/L
132-64-9	Dibenzofuran			not detected	NLE	2.13 ug	/L

Semi-Volatile Analysis Report Page 2

Data File Name bna01294.d

Sample Name

4035.08

Operator

Skelton

Misc Info

Bldg 1220 B-2

Date Acquired

19 Nov 1998 2:16 am

Sample Multiplier 1

121-14-2	2,4-Dinitrotoluene		not detected	10	1.22	ug/L	
84-66-2	Diethylphthalate		not detected	5000	1.68	ug/L	
86-73-7	Fluorene		not detected	300_	1.93	ug/L	
7005-72-3	4-Chlorophenyl-phenylether		not detected	NLE	1.53	ug/L	
100-01-6	4-Nitroaniline		not detected	NLE	2.70	ug/L	
86-30-6	n-Nitrosodiphenylamine		not detected	20	1.73	ug/L	
103-33-3	Azobenzene		not detected	NLE	1.92	ug/L	
101-55-3	4-Bromophenyl-phenylether		not detected	NLE	1.54	ug/L	
118-74-1	Hexachlorobenzene		not detected	10	1.88	ug/L	
85-01-8	Phenanthrene		not detected	NLE	1.67	ug/L	
120-12-7	Anthracene		not detected	2000	1.79	ug/L	
84-74-2	Di-n-butylphthalate		not detected	900	1.83	ug/L	
206-44-0	Fluoranthene		not detected	300	1.85	ug/L	
92-87-5	Benzidine		not detected	50	4.11	ug/L	
129-00-0	Pyrene		not detected	200	1.02	ug/L	
85-68-7	Butylbenzylphthalate		not detected	100	1.15	ug/L	
56-55-3	Benzo[a]anthracene		not detected	10	1.57	ug/L	
91-94-1	3,3'-Dichlorobenzidine	- 144 - 1	not detected	60	2.28	ug/L	
218-01-9	Chrysene		not detected	20	2.32	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate		not detected	30	1.29	ug/L	
117-84-0	Di-n-octylphthalate		not detected	100	1.30	ug/L_	
205-99-2	Benzo[b]fluoranthene	A NUMBER OF THE PARTY OF THE PA	not detected	10	1.31	ug/L	
207-08-9	Benzo[k]fluoranthene		not detected	2	1.57	ug/L	
50-32-8	Benzo[a]pyrene		not detected	20	1.36	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene		not detected	20	1.22	ug/L	
53-70-3	Dibenz[a,h]anthracene		not detected	20	3.12	ug/L	
191-24-2	Benzo[g,h,i]perylene		not detected	NLE	1.13	ug/L	

Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Bldg1220B-2 Lab Name: **FMETL** Lab Code 13461 **Project** 980932 Case No.: 4035 SDG No.: Location UST Matrix: (soil/water) WATER Lab Sample ID: 4035.08 1000 Sample wt/vol: (g/ml) ML Lab File ID: BNA01294.D Level: (low/med) LOW Date Received: 11/06/98 Date Extracted: 11/10/98 decanted: (Y/N) % Moisture: N Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/19/98 Injection Volume: 1.0 (uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

Number TICs found: 2 (ug/L or ug/Kg) UG/L	
---	--

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000301-02-0	9-Octadecenamide, (Z)-	23.23	20	JN
2.	unknown	26.39	41	J

LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following Laboratory Deliverables checklist and Non-Conformance Summary shall be included in the data submission. All deviations from the accepted methodology and procedures, of performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The Technical Requirements for Site Remediation, effective June 7, 1993, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package and in the main body of the report.

1.	Cover page, Title Page listing Lab Certification #, facility name and address, & date of report submitted	<u>~</u>
2.	Table of Contents submitted	
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted	<u></u>
4.	Document paginated and legible	
5.	Chain of Custody submitted	<u>~</u>
6.	Samples submitted to lab within 48 hours of sample collection	
7.	Methodology Summary submitted	
8.	Laboratory Chronicle and Holding Time Check submitted	
9.	Results submitted on a dry weight basis	_
10.	Method Detection Limits submitted	
11.	Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP	_
	oratory Manager or Environmental Consultant's Signature	5

*Refer to NJAC 7:26E - Appendix A, Section IV - Reduced Data Deliverables - Non-USEPA/CLP Methods for further guidance.

Laboratory Certification #13461

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

FORT MONMOUTH ENVIRONMENTAL

TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS

PHONE: (732)532-6224 FAX: (732)532-3484

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

NJDEP LABORATORY CERTIFICATION # 13461



ANALYTICAL DATA REPORT

Fort Monmouth Environmental Laboratory ENVIRONMENTAL DIVISION

Fort Monmouth, New Jersey

PROJECT: UST Program

BLDG. 1220

Field Location No. & Location	Laboratory Sample ID#	Matrix	Date and Time Of Collection	Date Received
Trip Blank	4107.01	Aqueous	03-Dec-98	12/03/98
Field Blank	4107.02	Aqueous	03-Dec-98 10:56	12/03/98
Bldg. 1220 B-1	4107.03	Aqueous	03-Dec-98 13:40	12/03/98
Bldg. 1220 B-1	4107.04	Aqueous	03-Dec-98 14:16	12/03/98
Bldg. 1220 B-2	4107.05	Aqueous	03-Dec-98 14:54	12/03/98
Bldg. 1220 B-2	4107.06	Aqueous	03-Dec-98 15:12	12/03/98
Field Dup.	4107.07	Aqueous	03-Dec-98	12/03/98

ANALYSIS: FORT MONMOUTH ENVIRONMENTAL LAB VOA+15, BN+15

> Daniel Wright/Date Laboratory Director

Table of Contents

Section	Pages
Chain of Custody	1-2
Field Documentation	3-7
Methodology Summary	8-9
Conformance/Non-Conformance Summary	10-12
Laboratory Chronicle	13-14
Volatile Organics	15-16
Analytical Results Summary	17-28
Tune Results Summary	29-30
Method Blank Results Summary	31
Calibration Summary	32-33
Surrogate Recovery Summary	34
MS/MSD Results Summary	35-36
Internal Standard Area & RT Summary	37
Chromatograms	38-49
Base Neutrals	50
Analytical Results Summary	51-60
Tune Results Summary	61-66
Method Blank Results Summary	67
Calibration Summary	68-75
Surrogate Recovery Summary	76
MS/MSD Results Summary	77
Internal Standard Area & RT Summary	78-81
Chromatograms	82-91
Laboratory Deliverables Checklist	92
Laboratory Authentication Statement	93

CHAIN OF CUSTODY



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703

Tel (732)532-4359 Fax (732)532-3484 EMail:appleby@doi:n6.monmouth.army.mil

NJDEP Certification #13461

Chain of Custody Record

Customer: CHAS. APPLEBY/VENSAR		Project No:			Analysis Parameters						Comments:				
Phone #:			Location: 8006. 1220			v B									
()DERA ()OMA ()Other:						N									
Samplers Name / Company : Mone Laura -		TV.S. PUS 07 S		Sample	#	Ø A +	+								
Lab Sample L.D. Sample Location		Date	Time	Туре	pottles	15	15							Remarks / Preservation Method	
4107 - 1	TRIP	BLANK	12-3-48		AQ.	2	×								HEL
2	Fiero	BLANK	,,	1056	11	3	×	×							HOL/140c
3	BLOG. 13	220 B-1	ч	1340	11	2	×								jei
4	, /	11	ч	1416	11			×							د با <i>ه</i> د
5	BLDG.	1220 18-2	. 4	1454	11	2	×								HCL
6	1)	1)		1512	.,			×							240c
7	FIELD	DUP.	11		1)	3	×	×							400/2402
				,											
				6,2											
Relinquished by (signature): Date/Time: 12-3-98 /530		Received by (signature): Reline		quished by (signature):			:	Date/Time: Received by		ed by ((signature):				
Relinquished by (signature): Date/Time:				quished by (signature):				Date/Time: Received by		red by ((signature):				
Report Type: (_)Full, (_) Turnaround time: (_)Star			en / non-certifi		ا شیختین بیشترین	Remarks:									

FIELD DOCUMENTATION

Post Remedial Groundwater Sampling at Former Underground Storage Tank Site [# 2 fuel oil]

FOR BLDG. # 1220- [B-2]

Ground Water Sampling with the use of a Passively Placed Narrow Diameter Point (PPNDP)

Objective:

To collect a representative groundwater sample utilizing a narrow diameter point [PPNDP] This is a small diameter [1-inch OD] screened casing passively placed in a borehole. The casing is of p.v.c. construction.

1. Methods

A. A solid push - rod (bull point) is used to create a narrow diameter hole to a depth below the water table. A piece of schedule 40 PVC screen with 0.010-inch slots and an end cap is placed to the bottom of the hole. Glues or adhesives are not used for joining the casing. Threaded PVC casing is used. No filter or gravel pack is used.

2. Installation

- A. Using a Geoprobe, a borehole was advanced with a pre-probe with a diameter slightly larger than the casing. The hole was made to a depth of 22 feet. The water table was at 18 feet below ground surface.
- B. The screened section of PVC was placed into the borehole so the screened section was across the ground water table from 17 22 feet. Riser casing from 17 +3 feet.

3. Purging

A. Three volumes of the standing water in the point were purged. The amount of water extracted was app. 0.123 gal. Three to five volumes are purged due to the potential for cross contamination of the screen from upper soil horizons. This was accomplished utilizing a peristaltic pump, and utilizing food grade tubing.

4. Sampling

A. Sampling methods, sample preservation requirements, sample handling times, decontamination procedure for field equipment, and frequency for field blanks, field duplicates and trip blanks conform to applicable industry methods such as those specified in the NJDEP "Field Sampling Procedures Manual" in effect as of the date on which sampling is performed. Any deviations from the methods in the "Field Sampling Procedures Manual" pursuant to N.J.A.C. 7:26E-1.6(c) has been approved by the person responsible for conducting the remediation.

All samples were preserved in the field immediately after collection and submitted to the laboratory as soon as possible and no later than 48 hours after sample collection.

The acquisition of samples and water level measurements were performed as recommended and described in the May 1992 edition of NJDEP Field Sampling Procedures Manual.

5. Quality Assurance/Quality Control

A. Decontamination

The associated equipment (bull point, riser pipe, etc.) was decontaminated between borings using the following procedure:

- 1. Remove all adherent soil material.
- 2. Wash with a laboratory grade glassware detergent.
- 3. Rinsed with potable water.
- 4. Rinse with distilled and deionized ASTM Type II water.

B. Field Blanks

- 1 Field blank was shared with bldg. 2700 CW-1 taken same day.
- C. Sample bottles: Supplied by Environmental Sampling Supply, Oakland, Calif. The sample bottles are certified clean and are sealed upon delivery.
- D. P.V.C. Screens: Supplied by Bedrock Enterprises, Forked River N.J.

Geoprobe Operator: Mark Laura Employer: U.S. Army, Fort Monmouth Phone Number: [732] 532-8990 NJDEP License #: J-1486

Mark Laura / Date

METHODOLOGY SUMMARY

Methodology Summary

EPA Method 624
Gas Chromatographic Determination of Volatiles in Water

Surrogates and internal standards are added to a 5 ml aliquot of sample. The sample is then purged and desorbed into a GC/MS system. The organic compounds are separated by the gas chromatograph and detected using the mass spectrometer. Volatiles are identified and quantitated.

EPA Method 3510/8270 Gas Chromatographic Determination of Semi-volatiles in Water

Surrogates are added to a measured volume of sample, usually 1 liter, at a specified pH. The sample is serially extracted with Methylene Chloride using a separatory funnel. The extract concentrated and internal standards are added. The sample is injected into a GC/MS system. Semi-volatiles are identified and quantitated.

CONFORMANCE/ NON-CONFORMANCE SUMMARY

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT

			Indicate Yes, No, N/A
1.	Chromatograms la	beled/Compounds identified	
		s and method blanks)	<u> Yes</u>
2.	Retention times fo	r chromatograms provided	<u>yes</u>
3.	GC/MS Tune Spec	cifications	
	a.	BFB Meet Criteria	yes
	b.	DFTPP Meet Criteria	yes.
4.		equency – Performed every 24 hours for 600	4.4-0
	series and 12 hour	s for 8000 series	40
5 .	GC/MS Calibratio	n – Initial Calibration performed before sample	
		nuing calibration performed within 24 hours of	1.00
	sample analysis to	r 600 series and 12 hours for 8000 series	40
6.	GC/MS Calibratio	n requirements	
	a.	Calibration Check Compounds Meet Criteria	yes
	b.	System Performance Check Compounds Meet Criteria	yes
7.	Blank Contaminati	ion - If yes, List compounds and concentrations in each blank:	NO
	a.	VOA Fraction	
	ъ.	B/N Fraction	
	c.	Acid Fraction	
8.	Surrogate Recover	ies Meet Criteria	yes
	•	those compounds and their recoveries, which fall ceptable range:	·
	a.	VOA Fraction	
	ъ.	B/N Fraction	
	C.	Acid Fraction	
	If not met, we as "estimated"	re the calculations checked and the results qualified?	
9.	Matrix Spike/Matr	ix Spike Duplicate Recoveries Meet Criteria	URS
	(If not met, list the	se compounds and their recoveries, which fall	1
	outside the accepta	able range)	
	a.	VOA Fraction	
	ъ.	B/N Fraction	
	c.	Acid Fraction	

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT (cont.)

		Indicate Yes, No, N/A
10.	Internal Standard Area/Retention Time Shift Meet Criteria (If not met, list those compounds, which fall outside the acceptable range)	yos
	a. VOA Fraction	
	b. B/N Fraction	
	c. Acid Fraction	
11.	Extraction Holding Time Met	yes
	If not met, list the number of days exceeded for each sample:	
12.	Analysis Holding Time Met	yes
	If not met, list the number of days exceeded for each sample:	•
	itional Comments: Field Duplicate purposed on B-	-
		• -
Labo	oratory Manager: Date: 7-7-99	

VOLATILE ORGANICS

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY NJDEPE # 13461

Definition of Qualifiers

MDL: Method Detection Limit

J : Compound identified below detection limitB : Compound in both sample and blank

D : Results from dilution of sample

U: Compound searched for but not detected

Data File Nam vb02291.d Operator Skelton Sample Name

Vblk70 Vblk70

1

Date Acquired 8 Dec 98 7:00 pm

Field ID Sample Multiplier

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Oualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethan			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01_ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24_ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	11	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ethe			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/ L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
	trans-1,3-Dichloroprope			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene		L	not detected	600	0.64 ug/L	

^{*} Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

1E VOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

DLATILE ORGANICS ANALYSIS DATA SHEET	FIELD	IL
TENTATIVELY IDENTIFIED COMPOUNDS		

Lab Name:	FMETL		Project	980932			Vblk70)
NJDEP#	13461	Case No.: 4107	SDG N	0	Lo	cation	UST	
Matrix: (soil/	water)	WATER	La	ıb Sample	D:	Vblk70		··
Sample wt/v	ol:	5.0 (g/ml) ML	La	b File ID:		VB0229	91.D	
Level: (low/	med)	LOW	Da	ate Receiv	ved:	12/03/9	8	
% Moisture:	not dec.		Da	ate Analyz	zed:	12/08/9	8	
GC Column:	HP5M	IS ID: <u>0.25</u> (mm)	Di	lution Fac	ctor:	1.0		
Soil Extract	Volume:	(uL)	Sc	oil Aliquot	Volu	me:		(uL)
Number TIC	s found:	0	CONCENTRA (ug/L or ug/Kg					
CAS NO.		COMPOUND NAME		RT	ES	T. CON	c.	Q

Data File Nam vb02304.d

Sample Name

4107.01 Trip Blank

Operator Skelton
Date Acquired 9 Dec 98 4:41 am

Field ID

Sample Multiplier

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethan			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ethe			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloroprope			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

1E **VOLATILE ORGANICS ANALYSIS DATA SHEET** TENTATIVELY IDENTIFIED COMPOUNDS

FIELD I	D
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Lab Name:	FMETL			Project	980932	2	Tr	rip Blank	(
NJDEP#	13461	Ca	se No.: 4107	 -	No	Loca	ation	UST	
Matrix: (soil/	water)	WATER	_	L	ab Sampl	e ID: 4	107.01		
Sample wt/v	ol:	5.0	(g/ml) ML	L	ab File ID	: <u>v</u>	B0230	14.D	
Level: (low/i	med)	LOW	_		ate Recei	ved: 1	2/03/9	8	
% Moisture:	not dec.				ate Analy	zed: 1	2/09/9	8	
GC Column:	HP5M	S ID: 0.2	25 (mm)	[Dilution Fa	ctor: 1.	.0		
Soil Extract	Volume:		_ (uL)	S	Soil Aliquo	t Volum	e:		(uL
Number TIC:	s found:	0		CONCENTRA (ug/L or ug/K					
CAS NO.		COMPOL	JND NAME		RT	EST.	CON	c.	Q

FORM I VOA-TIC

Data File Nam vb02305.d Operator

Skelton

Sample Name

4107.02 Field Blank

Date Acquired 9 Dec 98 5:25 am

Sample Multiplier

Field ID 1

CAS#	Command Name	ът	D	Danile	Regulatory Level	MDL	0 116
107028	Compound Name	R.T.	Response	Result	(ug/l)*		Qualifier
	Acrolein		 	not detected	50	1.85 ug/L	
107131	Acrylonitrile		 	not detected	50	2.78 ug/L	ļ
75650	tert-Butyl alcohol		 	not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	ļ		not detected	nle	0.16 ug/L	<u> </u>
108203	Di-isopropyl ether		 	not detected	nle	0.25 ug/L	
<u> </u>	Dichlorodifluoromethan			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane		 	not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride		 	not detected	5	1.06 ug/L	
74-83-9	Bromomethane		 	not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not_detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide		 	not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform		L	not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	11	0.23 ug/L	
78-87-5	1,2-Dichloropropane		<u> </u>	not detected	1	0.40_ug/L	
75-27-4	Bromodichloromethane		L	not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ethe			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloroprope			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan			not detected	2	0.47 ug/L	*** ***
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene		1	not detected	75	0.57 ug/L	
200 10 /	1,2-Dichlorobenzene						

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Lab Name:	FMETL		Project	980932		Field	Blank ————
NJDEP#	13461	Case No.: 410	7 SDG N	No	Loc	ation <u>U</u>	ST
Matrix: (soil/	water)	WATER	L	ab Sample	ID: 4	107.02	
Sample wt/v	ol:	5.0 (g/ml) ML	L	ab File ID:	<u>\</u>	/B02305.[)
Level: (low/	med)	LOW	D	ate Receiv	/ed: <u>1</u>	2/03/98	
% Moisture:	not dec.		D	ate Analyz	zed: <u>1</u>	2/09/98	
GC Column:	HP5M	S ID: 0.25 (mm)	D	ilution Fac	tor: 1	.0	
Soil Extract	Volume:	(uL)	S	oil Aliquot	Volum	ne:	(uL
			CONCENTRA	ATION UN	ITS:		
Number TIC	s found:	0	(ug/L or ug/Ko	g) <u>UG</u>	/L		
CAS NO.		COMPOUND NAME		RT	EST	CONC.	Q

Data File Nam vb02307.d Operator Skelton

Skelton

Sample Name

4107.05 Bldg1220B-2

Date Acquired 9 Dec 98 6:55 am

Field ID Sample Multiplier

1

					Regulatory Level		
CAS#	Compound Name	R.T.	Response	Result	(ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethan			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane	8.55	3953481	39.87 ug/L	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform		· · · · · · · · · · · · · · · · · · ·	not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene		-	not detected	ī	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ethe			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloroprope			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan	-		not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene		 	not detected	600	0.47 ug/L 0.55 ug/L	
106-46-7	1,4-Dichlorobenzene	-		not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.57 ug/L 0.64 ug/L	
72-20-1	1,4-1/ICITIOTOUCHZCHC			not detected	000	0.04_ug/L	

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

F	IE	LD	ID

Lab Name: FM	ETL	Project 980932	Bldg. 1220B-2
Lab Name. Fivi		Pioject <u>960932</u>	<u> </u>
NJDEP# <u>134</u>	161 Case No.: 4107	SDG No Loc	cation UST
Matrix: (soil/wate	r) <u>WATER</u>	Lab Sample ID: 4	107.05
Sample wt/vol:	5.0 (g/ml) ML	Lab File ID:	/B02307.D
Level: (low/med)	LOW	Date Received: 1	2/03/98
% Moisture: not o	dec	Date Analyzed: 1	2/09/98
GC Column: H	P5MS ID: 0.25 (mm)	Dilution Factor: 1	.0
Soil Extract Volum	me: (uL)	Soil Aliquot Volum	ne: (uL)
Number TICs fou	ınd: 0	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
CAS NO.	COMPOUND NAME	RT EST	CONC. Q

BASE NEUTRAL

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name

BN02424.D

Sample Name

Sblk177

Operator Date Acquired

Skelton 19-Dec-98 Misc Info Sample Mu Sblk177 A 981208 1

ıltiol	

					Regulatory		
CAS#	Name	R.T.	Response	Result	Level (ug/L)*	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00 ug/L	T
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94 ug/L	
62-53-3	Aniline			not detected	NLE	0.15 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61 ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33 ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46 ug/L	
78-59-1	Isophorone			not detected	100	0.35 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46 ug/L	
65-85-0	Benzoic Acid		-	not detected	NLE	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25 ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0,38 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0,18 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene	1		not detected	NLE	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26 ug/L	
83-32-9	Acenaphthene			not detected	400	0,26 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	10	0.36 ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82 ug/L	
86-73-7	Fluorene			not detected	300	0,29 ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31 ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23 ug/L	<u></u>
103-33-3	Azobenzene			not detected	NLE	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0,55 ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82 ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18 ug/L	
120-12-7	Anthracene			not detected	2000	0.19 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23 ug/L	
206-44-0	Fluoranthene			not detected	300	0.41 ug/L	
92-87-5	Benzidine			not detected	50	1.45 ug/L	
129-00-0	Pyrene			not detected	200	0.32 ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22 ug/L	
91-94-i	3,3'-Dichlorobenzidine			not detected	60	0.46 ug/L	
218-01-9	Chrysene			not detected	. 20	0.20 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79 ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28 ug/L	1
191-24-2	Benzo[g,h,i]perylene	1		not detected	NLE	0.40 ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6

Oualifiers

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

			THE ELLINGER	ILD COM	00110	5		
Lab Name:	FMETL			Lab Cod	134	61	Sblk	1 <i>77</i> ———
Project:	98-0932	2 C	ase No.: 4107	Locat	ion: U	ST S	SDG No:	
Matrix: (soil/	water)	WATER		L	.ab Sar	nple ID:	Sblk177	
Sample wt/v	ol:	1000	(g/ml) ML	l	ab File	D:	BN02424.D	
Level: (low/i	med)	LOW		E	Date Re	eceived:	12/3/98	
% Moisture:		de	canted: (Y/N)	N[Date Ex	tracted:	12/8/98	
Concentrate	d Extract	Volume:	1000 (uL)	[Date Ar	nalyzed:	12/19/98	
Injection Vol	ume: <u>1.</u>	0 (uL)		[Dilution	Factor:	1.0	
GPC Cleanu	ıp: (Y/N)	N	_ pH:					
				CONCE	ITRAT	ION UN	ITS:	
Number TIC	s found:	0		(ug/L or	ıg/Kg)	UG	/L	
CAS NUMI	BER	СОМРО	OUND NAME		RT	. E	ST. CONC.	Q

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name

BN02403,D

Sample Name

4107.02 Field Blank

Operator Date Acquired Skeltor

Misc Info 18-Dec-98

Sample Multiplier

Regulatory Level (ug/L)* CAS# Response Result MDL Name R.T. Oualifiers 110-86-1 Pyridine not detected NLE 5.00 ug/L 62-75-9 N-nitroso-dimethylamine not detected 0.94 ug/L 62-53-3 Aniline not detected NLE 0.15 ug/L 111-44-4 bis(2-Chloroethyl)ether 0.48 ug/L not detected 10 106-46-7 1,4-Dichlorobenzene 75 0.23 ug/L not detected 100-51-6 0.18 Benzyl alcohol not detected NLE ug/L 95-50-1 1,2-Dichlorobenzene not detected 0.16 ug/L 108-60-1 bis(2-chloroisopropyl)ether not detected 300 0.61 ug/L 67-72-1 0.33 ug/L Hexachloroethane not detected 10 98-95-3 Nitrobenzene not detected 0.46 ug/L 10 78-59-1 0.35 ug/L Isophorone not detected 100 111-91-1 bis(2-Chloroethoxy)methane not detected NLE 0.46 ug/L 65-85-0 Benzoic Acid not detected NLE 0.26 ug/L 1,2,4-Trichlorobenzene 120-82-1 0.25 ug/L not detected 9 91-20-3 Naphthalene not detected NLE 0,25 ug/L 4-Chloroaniline 106-47-8 not detected NLE 0.19 ug/L 87-68-3 Hexachlorobutadiene 0.38 ug/L 91-57-6 2-Methylnaphthalene 0.16 ug/L NLE not detected 77-47-4 Hexachlorocyclopentadiene 1.50 ug/L 50 not detected 91-58-7 2-Chloronaphthalene not detected NLE 0.32 ug/L 88-74-4 2-Nitroaniline 0.21 ug/L not detected NLE 131-11-3 Dimethylphthalate not detected 7000 0.18 ug/L 208-96-8 Acenaphthylene 0.19 ug/L not detected NLE 606-20-2 2,6-Dinitrotoluene 0.31 ug/L not detected NLE 99-09-2 3-Nitroaniline not detected NLE 0.26 ug/L 83-32-9 Acenaphthene 0.26 ug/L 132-64-9 0.32 Dibenzofuran NLE ug/L not detected 121-14-2 2,4-Dinitrotoluene 0.36 ug/L not detected 10 84-66-2 Diethylphthalate not detected 5000 0.82 ug/L 86-73-7 Fluorene not detected 0.29 ug/L 300 ug/L 0.31 7005-72-3 4-Chlorophenyl-phenylether not detected NLE 0.90 ug/L 100-01-6 4-Nitroaniline NLE not detected n-Nitrosodiphenylamine 86-30-6 0.23 ug/L not detected 20 103-33-3 Azobenzene not detected NLE 0.80 ug/L 101-55-3 4-Bromophenyl-phenylether 0.55 ug/L detected 118-74-1 not detected 0.82 ug/L Hexachlorobenzene 85-01-8 not detected 0.18 ug/L NLE Phenanthrene 120-12-7 Anthracene not detected 2000 0.19 ug/L 84-74-2 Di-n-butylphthalate 0.23 ug/L not detected 900 0.41 ug/L 206-44-0 Fluoranthene not detected 300 1.45 ug/L 50 92-87-5 Benzidine not detected 0.32 ug/L 129-00-0 Рутепе not detected 200 0.47 85-68-7 Butylbenzylphthalate not detected 100 ug/L 56-<u>55-3</u> 0,22 ug/L Benzo[a]anthracene 0.46 ug/L 91-94-1 3,3'-Dichlorobenzidine 60 0.20 ug/L not detected 20 218-01-9 Chrysene 117-81-7 bis(2-Ethylhexyl)phthalate 24.87 19748 1.89 ug/L 30 0.51 ug/L 117-84-0 Di-n-octylphthalate not detected 100 0.82 ug/L 0.37 ug/L 205-99-2 Benzo[b]fluoranthene not detected 10 0.32 ug/L 207-08-9 Benzo[k]fluoranthene not detected 0.31 ug/L 50-32-8 Benzo[a]pyrene not detected 20 193-39-5 0.79 not detected 20 ug/L Indeno[1,2,3-cd]pyrene 0.28 ug/L 53-70-3 Dibenz[a,h]anthracene not detected 0.40 ug/L 191-24-2 Benzo[g,h,i]perylene

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6

Qualifiers

E= Value Exceeds Linear Range D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Field ID:

		. =	120 00	00.150		Cial D	
Lab Name:	FMETL		Lab Cod	13461		Field B	iank
Project:	98-0932	Case No.: 4107	Locat	ion: <u>UST</u>	SC	OG No:	
Matrix: (soil/v	vater)	WATER	ı	_ab Sample	e ID:	4107.02	
Sample wt/vo	ol:	1000 (g/ml) ML		_ab File ID:	_	BN02403.D	
Level: (low/n	ned)	LOW	I	Date Recei	ved:	12/3/98	
% Moisture:		decanted: (Y/N)	<u>N</u> I	Date Extrac	ted:	12/8/98	
Concentrated	d Extract	Volume: <u>1000</u> (uL)	I	Date Analyz	zed:	12/18/98	
Injection Volu	ıme: <u>1.0</u>	<u>) (uL) </u>	i	Dilution Fac	ctor:	1.0	
GPC Cleanup: (Y/N) N pH:							
Number TICs	s found:	0	CONCEI	NTRATION ug/Kg)	UNIT UG/L		
CAS NUME	BER	COMPOUND NAME		RT	ES	T. CONC.	Q

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name

BN02405.D

Sample Name

4107.06 Bldg1220B-2

Operator

Date Acquired

Skelton 18-Dec-98 Misc Info Sample Multiplier

iplier 1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00 u	/L
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94 u	Λ
62-53-3	Aniline			not detected	NLE	0.15 u	/L
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48 uş	/L
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23 us	/L
100-51-6	Benzyl alcohol			not detected	NLE	0.18 us	/L
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16 us	/L
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61 կ	/L
67-72-1	Hexachloroethane			not detected	10	0.33 uş	/L
98-95-3	Nitrobenzene			not detected	10	0.46 այ	/L
78-59-1	Isophorone			not_detected	100	0.35 น	/L
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46 պ	/L
65-85-0	Benzoic Acid			not detected	NLE	0.26 us	/L
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25 կ	/L
91-20-3	Naphthalene			not detected	NLE	0.25 ug	/L
106-47-8	4-Chloroaniline			not detected	NLE	0.19 պ	/L
87-68-3	Hexachlorobutadiene			not detected	1	0.38 ug	/L
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16 us	/L
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50 պ	Λ
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32 us	/L
88-74-4	2-Nitroaniline			not detected	NLE	0.21 us	/L
131-11-3	Dimethylphthalate			not detected	7000	0.18 այ	/L
208-96-8	Acenaphthylene			not detected	NLE	0.19 us	/L
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31 սբ	/L
99-09-2	3-Nitroaniline			not detected	NLE	0.26 ար	<u>/L</u>
83-32-9	Acenaphthene	_		not detected	400	0.26 us	/L
132-64-9	Dibenzofuran			not detected	NLE	0.32 სე	<u>/L</u>
121-14-2	2,4-Dinitrotoluene			not detected	10	0,36 սբ	/ <u>L</u>
84-66-2	Diethylphthalate			not detected	5000	0.82 ug	/L
86-73-7	Fluorene	4		not detected	300	0,29 սբ	<u>/L</u>
7005-72-3	4-Chlorophenyl-phenylether	ļ		not detected	NLE	0.31 ug	/L
100-01-6	4-Nitroaniline	 		not detected	NLE	0.90 บฺย	/L
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23 աջ	/L
103-33-3	Azobenzene	1		not detected	NLE	0.80 ug	/L
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55 us	/L
118-74-1	Hexachlorobenzene			not detected	10	0.82 ug	/L
85-01-8	Phenanthrene			not detected	NLE	0.18 ug	
120-12-7	Anthracene	+		not detected	2000	0.19 ug	
84-74-2	Di-n-butylphthalate	 -		not detected	900	0.23 ug	
206-44-0	Fluoranthene	+		not detected	300_	0.41 ug	
92-87-5	Benzidine			not detected	50	1.45 ug	
129-00-0	Pyrene	+		not detected	200	0.32 ug	
85-68-7	Butylbenzylphthalate	╙	L	not detected	100	0.47 ug	
56-55-3	Benzo[a]anthracene			not detected	10	0.22 ug	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46 ug	
218-01-9	Chrysene	1000	10000	not detected	20	0.20 ug	
117-81-7	bis(2-Ethylhexyl)phthalate	24.86	18327	2.06 ug/L	30	0.51 ug	
117-84-0	Di-n-octylphthalate	1		not detected	100	0.82 ug	
205-99-2	Benzo[b]fluoranthene	+		not detected	10	0.37 ug	
207-08-9	Benzo[k]fluoranthene	+		not detected	2	0.32 ug	
50-32-8	Benzo[a]pyrene			not detected	20	0.31 ug	
193-39-5	Indeno[1,2,3-cd]pyrene	+		not detected	20	0.79 ug	
53-70-3	Dibenz[a,h]anthracene	+		not detected	20	0.28 ug	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40 บg	<u>L </u>

^{*} Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6

Qualifiers

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established R.T.=Retention Time 1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

F	ie	ld	I	D

Lab Name:	FMETL			Lab Coo	13461		1220B-2
Project:	98-0932	Cas	se No.: 4107	Locat	ion: UST	SE	OG No:
Matrix: (soil/	water) <u>V</u>	/ATER	_	Ĺ	.ab Sample	ID:	4107.06
Sample wt/ve	ol: <u>1</u>	000	(g/ml) ML	ι	ab File ID:		BN02405.D
Levei: (low/r	med) <u>L</u>	ow	_		Date Receive	ed:	12/3/98
% Moisture:		deca	anted: (Y/N)	N [Date Extract	ed:	12/8/98
Concentrate	d Extract Vo	lume: <u>1</u>	000 (uL)	ι	Date Analyz	ed:	12/18/98
Injection Vol	ume: <u>1.0</u>	_ (uL)	·	[Dilution Fact	or:	1.0
GPC Cleanu	ıp: (Y/N) _	N	pH:				
					NTRATION		
Number TIC	s tound:	1		(ua/L or i	Ja/Ka)	UG/L	_

LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following Laboratory Deliverables checklist and Non-Conformance Summary shall be included in the data submission. All deviations from the accepted methodology and procedures, of performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The Technical Requirements for Site Remediation, effective June 7, 1993, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package and in the main body of the report.

1.	Cover page, Title Page listing Lab Certification #, facility name and address, & date of report submitted	
2.	Table of Contents submitted	
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted	
4.	Document paginated and legible	
5.	Chain of Custody submitted	
6.	Samples submitted to lab within 48 hours of sample collection	
7 .	Methodology Summary submitted	
8.	Laboratory Chronicle and Holding Time Check submitted	
9.	Results submitted on a dry weight basis	
10.	Method Detection Limits submitted	
11.	Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP	_
	oratory Manager or Environmental Consultant's Signature	5

*Refer to NJAC 7:26E - Appendix A, Section IV - Reduced Data Deliverables - Non-USEPA/CLP Methods for further guidance.

Laboratory Certification #13461

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

GPS SAMPLE LOCATION MAP(BLDG.1220)

US STATE PLANE 1983 NJ(NY EAST) 2900 NAD 1983 (CONUS)

(IN US SURVEY FEET)

SAMPLE POINT

POSITION/DESC.	Y COORD.(NORTHING)	X COORD.(EASTING)
SOIL		
PS-1	539055.468	615657.152
PS-2	539068.984	615691.296
PS-3	539032.704	615633.676
PS-4	539010.652	615642.924
PS-5	539068.984	615721.528
PS-6	539044.800	615731.132
PE-1	538990.024	615650.748
PE-2	538977.220	615656.440
PE-3	538962.840	615662.400
PE-4	538999.984	615749.628
PE-5	539011.008	615745.360 ·
PE-6	539028.436	615738.248
GROUNDWATER		
B2	539032.524	615719.740