

United States Army

Fort Monmouth, New Jersey

Underground Storage Tank Closure and Site Investigation Report

***Building 707
Main Post***

**NJDEP UST Registration No. 081533-226
Emergency UST Removal
Spill Case No. 94-5-13-0932-29**

July 1998

EXECUTIVE SUMMARY

On May 13, 1994, a steel underground storage tank (UST) was closed by removal at U.S. Army Fort Monmouth, Fort Monmouth, New Jersey. The UST, NJDEP Registration No. 081533-226, was discovered during demolition activities, and was directed as an emergency removal. The UST, NJDEP Registration No. 081533-226, was located immediately adjacent to Building 707 in the Main Post area of U.S. Army, Fort Monmouth. UST No. 081533-226 was a 1,000-gallon No. 2 fuel oil UST. The UST fill port was located directly above the tank. The tank closure was performed by U.S. Army Base Operation Contractor, Cleaning Up the Environment Inc. (CUTE), under the direct supervision of the DPW.

The site assessment was performed by U.S. Army personnel in accordance with the NJDEP *Technical Requirements for Site Remediation* (N.J.A.C. 7:26E) and the NJDEP *Field Sampling Procedures Manual*. Following removal of the UST, soil surrounding the tank was screened visually and with air monitoring equipment for evidence of contamination, and the UST was inspected for corrosion holes. Several holes were noted in the UST and evidence of potentially contaminated soil was observed surrounding the tank. Based on an inspection of the UST, and field screening of subsurface soils the Directorate of Public Works (DPW) concluded that an historical discharge was associated with the UST. On May 13, 1994, a spill was reported to the NJDEP "Hotline" for UST No. 081533-226 and was assigned Spill Case No. 94-5-13-0932-29.

On May 13, 1994, and May 20, 1994, approximately 100 cubic yards of potentially contaminated soil was removed from the perimeter of the UST excavation. Seventeen post-excitation soil samples were collected along the sidewalls of the excavation, immediately above groundwater. The samples were collected at a depth of 7.0 feet below ground surface (bgs). Groundwater was present at approximately 7.5 feet bgs. The samples were analyzed for total petroleum hydrocarbons (TPHC). All post excavation soil samples collected from the extended excavation contained TPHC concentrations below the NJDEP residential direct contact total organic contaminants soil cleanup criteria of 10,000 milligrams per kilogram (mg/kg)

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

In response to the observation of potentially contaminated soil near the shallow water table, two shallow overburden monitoring wells (MW-1 and MW-2) were installed at the Building 707 area on September 13, 1994. On May 18, 1995, and June 13, 1995, MW-1 and MW-2 were sampled for volatile organic compounds calibrated for xylene plus 15 tentatively identified compounds (VOCs), and semivolatile organic compounds plus 15 tentatively identified compounds (SVOCs). On January 30, 1997, monitoring wells MW-1 and MW-2 were sampled for VOCs. Sampling and analysis were performed in accordance with the NJDEP *Field Sampling Procedures Manual* and the *Technical Requirements For Site Remediation*.

The sample collected from MW-1 on May 18, 1995, contained either non-detectable concentrations of VOCs and SVOCs or concentrations below the Groundwater Quality Standards (GWQS). The sample collected from MW-2 on May 18, 1995, contained tetrachloroethene at a concentration of 1.1 ug/l, which exceeded the GWQS of 1.0 ug/l. All other VOC and SVOC compounds were either non-detectable or below the GWQS. The sample collected from MW-2 on January 30, 1997 contained methylene chloride at 25.18 ug/l, trichloroethene at 1.34 ug/l and tetrachloroethene at 1.25 ug/l. These compounds exceeded the criteria of 2.0 ug/l, 1.0 ug/l and 1.0 ug/l, respectively. either non-detectable concentrations of VOCs and SVOCs or concentrations below the GWQS.

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 remain in the former location of the UST.

Based on the groundwater analytical results, tetrachloroethene and trichloroethene concentrations, exceeding NJDEP GWQS detected in monitoring well MW-2, are not indicative of the UST field. These compounds will be monitored and addressed in the site-wide investigation currently being conducted at Fort Monmouth under Defense Environmental Restoration Program (DERP), a long term monitoring program, approved by NJDEP.

No further action is proposed in regard to the closure and site assessment of UST No. 081533-226 at Building 707.

1.0 UNDERGROUND STORAGE TANK DECOMMISSIONING ACTIVITIES

1.1 OVERVIEW

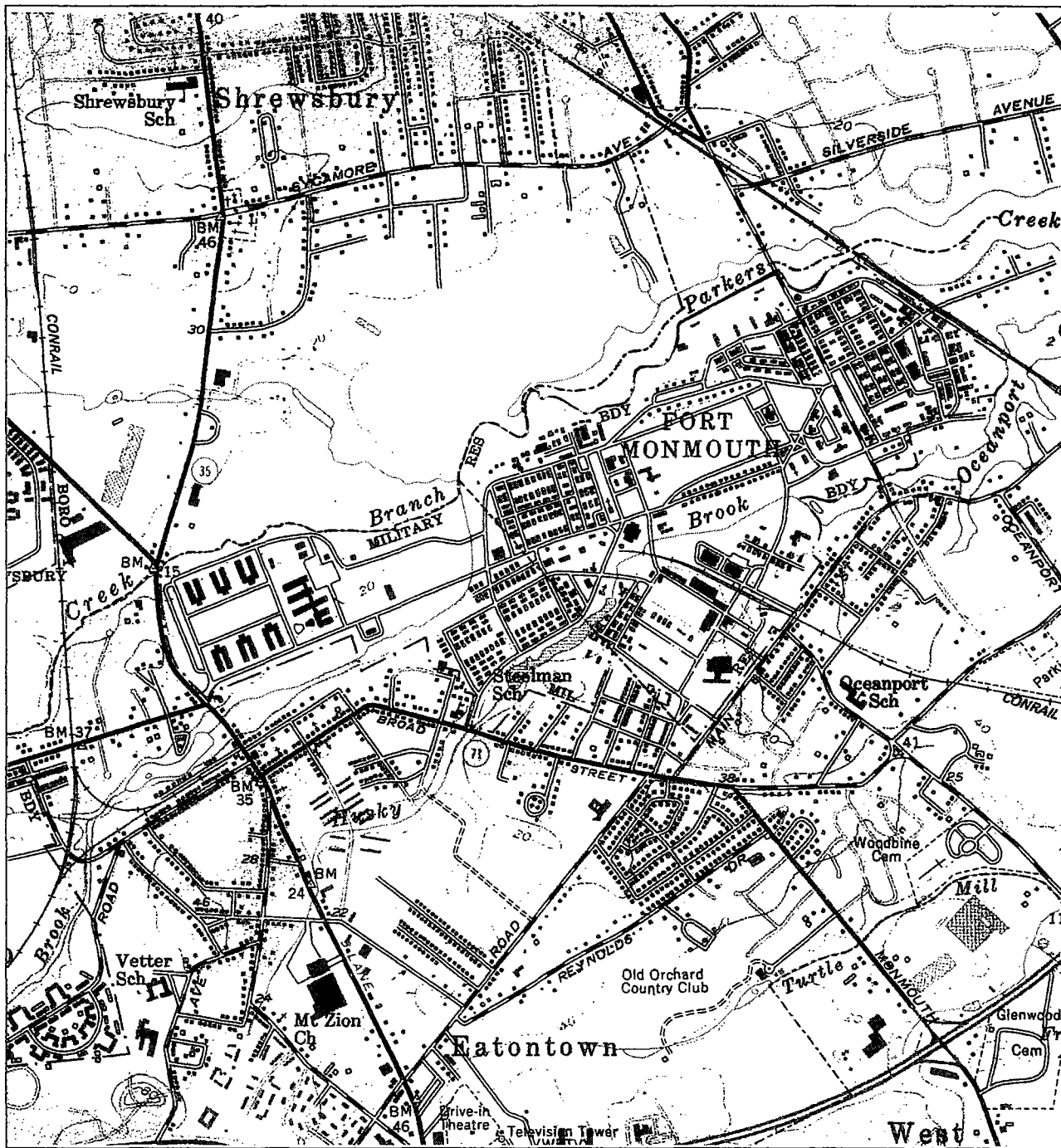
One underground storage tank (UST), New Jersey Department of Environmental Protection (NJDEP) Registration No. 081533-226, was closed at Building 707 at U.S. Army Fort Monmouth, Fort Monmouth, New Jersey on May 13, 1994. Refer to site location map on Figure 1. The UST was a steel 1,000-gallon tank containing No. 2 fuel oil.

Decommissioning activities for UST No. 081533-226 complied with all applicable Federal, State and Local laws and ordinances in effect at the date of decommissioning. These laws included but were not limited to: N.J.A.C. 7:14B-1 et seq., N.J.A.C. 5:23-1 et seq., and Occupational Safety and Health Administration (OSHA) 1910.146 & 1910.120. All permits including but not limited to the NJDEP-approved Decommissioning/Closure Plan were posted onsite for inspection. CUTE, the contractor that conducted the decommissioning activities, is registered and certified by the NJDEP for performing UST closure activities. Closure of UST No. 081533-226 proceeded as an emergency removal. The tank was previously unknown and was discovered during demolition activities. The signed certification for UST No. 081533-226 is included in Appendix A.

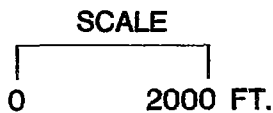
Based on an inspection of the UST, and field screening of subsurface soils the DPW has concluded that an historical discharge was associated with the UST. On July 27, 1994, a spill was reported to the NJDEP "Hotline" for UST No. 081533-226 and was assigned Spill Case No. 94-5-13-0932-29.

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

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



Source: Long Branch, New Jersey Quadrangle



NEW JERSEY



QUADRANGLE LOCATION

1.2 SITE DESCRIPTION

Building 707 is located in the southern portion of the Main Post area of Fort Monmouth, as shown on Figure 1. UST No. 081533-226 was located approximately 15 feet north of Building 707 and appurtenant piping ran approximately 15 feet southeast from the excavation to Building 707. The piping was abandoned in place. The fill port area was located directly above the tank. A site map is provided on Figure 2.

1.2.1 Geological/Hydrogeological Setting

The following is a description of the geological/hydrogeological setting of the area surrounding Building 707. 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

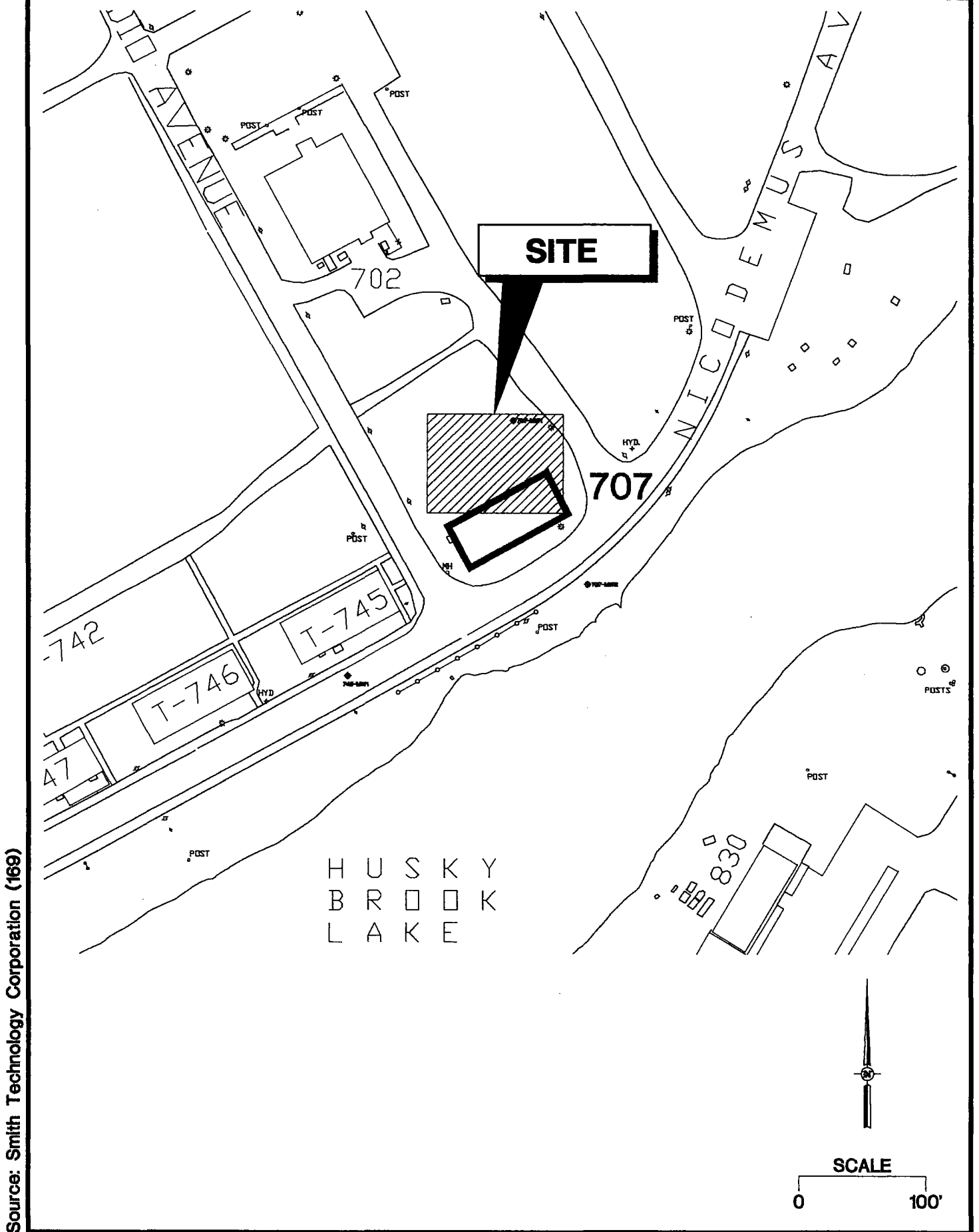
Monmouth County lies within the New Jersey Section of the Atlantic Coastal Plain physiographic province. The Main Post, Charles Wood, and the Evans areas are located in what may be referred to as the Outer Coastal Plain subprovince, or the Outer Lowlands.

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 (Zapeczka, 1989). These sediments, predominantly derived from deltaic, shallow marine, and continental shelf environments, date from Cretaceous through the Quaternary Periods. The mineralogy ranges from quartz to glauconite.

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

Local Geology

Based on the regional geologic map (Jablonski, 1968), the Cretaceous age Red Bank and Tinton Sands outcrop at the Main Post area. The Red Bank sand conformably overlies the Navesink Formation and dips to the southeast at 35 feet per mile. The upper member (Shrewsbury) of the Red Bank sand is a yellowish-gray to reddish brown clayey, medium-to-



coarse-grained sand that contains abundant rock fragments, minor mica and glauconite (Jablonski). The lower member (Sandy Hook) is a dark gray to black, medium-to-fine grained sand with abundant clay, mica, and glauconite.

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

Hydrogeology

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

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

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

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 involve with, or were affected by, the decommissioning of the UST system were minimized. All areas which posed, or may have been suspected to pose a vapor hazard were monitored by a qualified individual utilizing an organic vapor analyzer (OVA). The individual ascertained if the area was properly vented to render the area safe, as defined by OSHA.

1.4 REMOVAL OF UNDERGROUND STORAGE TANK

1.4.1 General Procedures

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

1.4.2 Underground Storage Tank Excavation and Cleaning

Prior to UST decommissioning activities, surficial soil was removed to expose the UST and associated piping. All free product present in the piping was drained into the UST, and the piping fittings were capped and left in place. The UST was purged to remove vapors prior to cutting and removal. A manway was made in the UST to allow for proper cleaning. The UST was completely emptied of all liquids prior to removal from the ground. Approximately 506 gallons of liquid were transported by Freehold Cartage Inc. to Lionetti Oil Recovery Co. Inc., a NJDEP-approved petroleum recycling and disposal company located in Old Bridge, New Jersey. Refer to Appendix B for the waste manifest (NJA-1603245).

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

1.5 UNDERGROUND STORAGE TANK TRANSPORTATION AND DISPOSAL

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

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

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

1.6 MANAGEMENT OF EXCAVATED SOILS

Based on visual observations, approximately 100 cubic yards of potentially contaminated soils were excavated from the UST excavation. Potentially contaminated soils were stockpiled separately from other excavated material and were placed on and covered with polyethylene sheets. Potentially contaminated soils were transported to 292 area on Main Post for storage prior to ultimate disposal at Soil Remediation of Philadelphia. Soils that did not exhibit signs of contamination were used as backfill following removal of the UST.

2.0 SITE INVESTIGATION ACTIVITIES

2.1 OVERVIEW

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

The following Parties participated in Closure and Site Investigation Activities.

- Closure Contractor: Cleaning Up The Environment Inc.
Closure Supervisor: John Lonergan
Phone Number: (201)427-2881
NJDEP Certification No.: 3248
- Subsurface Evaluator: Charles M. Appleby
Employer: U.S. Army, Fort Monmouth
Phone Number: (908) 532-6224
NJDEP Certification No.: 2056
- Analytical Laboratory: U.S. Army Fort Monmouth Environmental Laboratory
Contact Person: Brian K. McKee
Phone Number: (908)532-4359
NJDEP Certification No.: 13461
- Hazardous Waste Hauler: Freehold Cartage Inc.
Contact Person: Barry Olsen
Phone Number: (908)721-0900
NJDEP Hazardous Waste Hauler No.: 2265

2.2 FIELD SCREENING/MONITORING

Field screening was performed by a NJDEP Certified Sub-Surface Evaluator using an OVA and visual observations to identify potentially contaminated material. Additional soils were removed from the excavation surrounding UST No. 081533-226 until no evidence of contamination remained.

2.3 SOIL SAMPLING

On May 13, 1994, following removal of approximately 60 cubic yards of potentially contaminated soil from the excavation, post-excavation soil samples A, B, C, D, E, F, G, and H were collected from a total of eight (8) locations along the sidewalls of the excavation, immediately above groundwater. The samples were collected at a depth of 7.0 feet below ground surface (bgs). Groundwater was present at approximately 7.5 feet bgs. The samples were analyzed for total petroleum hydrocarbons (TPHC).

Based on an inspection of the UST, and field screening of subsurface soils the Directorate of Public Works (DPW) concluded that an historical discharge was associated with the UST. On May 13, 1994, a spill was reported to the NJDEP "Hotline" for UST No. 081533-226 and was assigned Spill Case No. 94-5-13-0932-29.

On May 20, 1994, approximately 40 cubic yards of potentially contaminated soil was removed from the perimeter of the UST excavation due to elevated TPHC concentrations. Post-excavation soil samples H, I, J, K, L, M, N, O, and P were collected on May 23, 1994 along the sidewalls of the extended portions of the excavation. The samples were collected at a depth of 3.5-4.0 feet bgs. The samples were analyzed for TPHC.

The site assessment was performed by U.S. Army personnel in accordance with the NJDEP *Technical Requirements* and the NJDEP *Field Sampling Procedures Manual*. A summary of sampling activities including parameters analyzed is provided in Table 1. The post-excavation soil samples were collected using polystyrene scoops. Actual soil TPHC values may be higher than reported, due to sample utensil absorbency. If absorbency resulted in reducing the actual soil TPHC concentration by 50 %, the highest soil contaminant would have been 22.2 mg/kg, still below the applicable NJDEP soil cleanup standard for total organic contaminants of 10,000 mg/kg. Following soil sampling activities, the samples were chilled and delivered to U.S. Army Fort Monmouth Environmental Laboratory located in Fort Monmouth, New Jersey, for analysis.

2.4 GROUNDWATER SAMPLING

2.4.1 Monitoring Well Installation

In response to the observation of potentially contaminated soil near the shallow water table, two shallow monitoring wells (MW-1 and MW-2) were installed at the Building 707 area on September 13, 1994. MW-1 was installed approximately 15 feet north of the UST excavation in the downgradient direction. MW-2 was installed approximately 18 feet southeast of the UST excavation. The wells were screened in the 2.5- to 12.5 foot interval, across the water table. The water table in MW-1 is approximately 9.1 feet below grade surface. The water table in MW-2 is approximately 6.10 feet below grade surface.

TABLE 1
SUMMARY OF SAMPLING ACTIVITIES
BUILDING 707, MAIN POST
FORT MONMOUTH, NEW JERSEY

Sample ID	Date of Collection	Matrix	Sample Type	Analytical Parameters (and USEPA Methods) *	Sampling Method
A	5/13/94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
B	5/13/94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
C	5/13/94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
D	5/13/94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
E	5/13/94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
F	5/13/94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
G	5/13/94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
H	5/13/94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
H	5/23/94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
I	5/23/94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
J	5/23/94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
K	5/23/94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
L	5/23/94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
M	5/23/94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
N	5/23/94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
O	5/23/94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
P	5/23/94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
MW-1	5/18/95	Aqueous	Groundwater	VOCs, SVOCs	Teflon Bottom Fill Bailer
MW-2	5/18/95	Aqueous	Groundwater	VOCs, SVOCs	Teflon Bottom Fill Bailer
MW-1	6/13/95	Aqueous	Groundwater	VOCs, SVOCs	Teflon Bottom Fill Bailer
MW-2	6/13/95	Aqueous	Groundwater	VOCs, SVOCs	Teflon Bottom Fill Bailer
MW-1	1/30/97	Aqueous	Groundwater	VOCs	Teflon Bottom Fill Bailer
MW-2	1/30/97	Aqueous	Groundwater	VOCs	Teflon Bottom Fill Bailer
MW-2 DUP	1/30/97	Aqueous	Groundwater	VOCs	Teflon Bottom Fill Bailer

*Note:

TPHC: Total Petroleum Hydrocarbons (Method 418.1 / soil and aqueous)
VOCs: Volatile Organic Compounds calibrated for xylene plus 10 tentatively identified compounds (Method 524.2 / aqueous)
SVOCs: Semivolatile Organic Compounds plus 15 tentatively identified compounds (Method 625 / aqueous)

Source: Smith Technology Corporation (Smith Project No. 09-5004-12)

The wells were constructed in accordance with the NJDEP's well construction protocols outlined in its May 1992 *Field Sampling Procedures Manual*. The NJDEP well drilling permits and well construction logs are presented in Appendix D.

The wells were constructed with 4-inch (ID) PVC riser and 0.020 slotted PVC well screen. A silica sand pack was installed in the annulus between the borehole wall and the screen. The sand pack was extended approximately 2 feet above the top of the screen. The sand pack above the well screen was graded down to a fine sand to minimize grout intrusion.

The boreholes were tremie-grouted with bentonite-cement grout from the top of the sand pack to 6 inches bgs. The wells are secured with a steel protective casing with a stickup that is approximately 2.0 feet above ground surface. The steel protective casings were set in place with concrete, which was placed in the remaining open boreholes. The elevation of the well riser was surveyed to the nearest 0.01 feet by a New Jersey-licensed surveyor. The well permit numbers were marked on the each well casing as required.

The monitoring wells were developed using a peristaltic surface pump. The wells were pumped for 1 hour or until silt free. All residual soils and liquids generated during monitoring well installation and development program were collected in New Jersey Department of Transportation-approved 55-gallon drums. The drums were placed in a designated secure location for waste characterization and offsite disposal.

2.4.2 Monitoring Well Sampling

On May 18, 1995 and June 13, 1995, MW-1 and MW-2 were sampled for volatile organic compounds calibrated for xylene plus 15 tentatively identified compounds (VOCs), and semivolatile organic compounds plus 15 tentatively identified compounds (SVOCs). On January 30, 1997 MW-1 and MW-2 were sampled for VOCs. Sampling and analysis were performed in accordance with the NJDEP *Field Sampling Procedures Manual* and the *Technical Requirements For Site Remediation*.

Prior to sampling, water levels were measured to the nearest 0.01 feet, and the distance to the bottom of each well was to be measured to the nearest 0.1 feet. The wells were checked for floating product (light non-aqueous phase liquids). The wells were purged of three to five well volumes of standing water. Sample volume was then collected using a dedicated decontaminated Teflon bottom-filled bailer attached to PTFE (Teflon)-coated stainless steel.

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 SOIL SAMPLING RESULTS

To evaluate soil conditions following removal of the UST, post-excavation soil samples were collected from a total of eight (8) locations on May 13, 1994 and from a total of nine (9) locations on May 23, 1994. All samples were analyzed for TPHC. The post-excavation sampling results were compared to the NJDEP residential direct contact total organic contaminants soil cleanup criteria of 10,000 mg/kg (N.J.A.C. 7:26D and revisions dated February 3, 1994). A summary of the analytical results and comparison to the NJDEP soil cleanup criteria is provided in Table 2 and the soil sampling results are shown on Figure 3. The analytical data package is provided in Appendix E.

Samples C and F, collected on May 13, 1994 contained TPHC concentrations of 50.5 mg/kg and 24.4 mg/kg, respectively. Samples A, B, D, E, and G, contained elevated levels of TPHC ranging in concentration from 4,260.0 mg/kg to 9,740.0 mg/kg. Sample H, collected along the northeastern sidewall, contained a TPHC concentration of 13,900.0 which exceeds the NJDEP soil cleanup criteria of 10,000 mg/kg.

Soil samples H and O, collected on May 23, 1994 contained TPHC concentrations of 7.79 mg/kg and 11.1 mg/kg. All other samples contained non-detectable concentrations of TPHC.

3.2 GROUNDWATER SAMPLING RESULTS

The sample collected from MW-1 on May 18, 1995, contained methylene chloride at 0.8 ug/l, chloroform at 1.1 ug/l, and di-n-butylphthalate at 110.0 ug/l. The results are below the NJDEP GWQS. No other compounds were detected.

The sample collected from MW-1 on June 13, 1995, contained methylene chloride at 2.3 ug/l, which exceeded the GWQS of 2.0 ug/l. This compound is also found in the sample field blank at a concentration of 2.1 ug/l. The sample also contained chloroform at 0.8 ug/l, which is below the NJDEP GWQS. No other compounds were detected.

The sample collected from MW-1 on January 30, 1997 contained methylene chloride at 25.18 ug/l, and chloroform at 7.53 ug/l, which exceeded the criteria of 2.0 ug/l and 6.0 ug/l, respectively. The trip blank and field blank contained methylene chloride at 5.55 ug/l and 110.66 ug/l, respectively. No other compounds were detected.

The sample collected from MW-2 on May 18, 1995, contained chloromethane at 0.9 ug/l, methylene chloride at 1.4 ug/l, 1,1-dichloroethane at 0.6 ug/l, trichloroethene at 0.8 ug/l, tetrachloroethene at 0.8 ug/l, and di-n-butylphthalate at 92.0 ug/l. All results were below the NJDEP GWQS. No other compounds were detected.

TABLE 2
 POST-EXCAVATION SOIL SAMPLING RESULTS
 BUILDING 707, MAIN POST
 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
A	1492.1	5/13/94	5/16/94	Total % Solid	--	--	79 %	--	--
				TPHC	69	yes	5,620	10,000	--
B	1492.2	5/13/94	5/16/94	Total % Solid	--	--	86 %	--	--
				TPHC	69	yes	9,740	10,000	--
C	1492.3	5/13/94	5/16/94	Total % Solid	--	--	85 %	--	--
				TPHC	6.6	yes	50.5	10,000	--
D	1492.4	5/13/94	5/16/94	Total % Solid	--	--	79 %	--	--
				TPHC	69	yes	5,300	10,000	--
E	1492.5	5/13/94	5/16/94	Total % Solid	--	--	80 %	--	--
				TPHC	46	yes	4,680	10,000	--
F	1492.6	5/13/94	5/16/94	Total % Solid	--	--	67 %	--	--
				TPHC	6.6	yes	24.4	10,000	--
G	1492.7	5/13/94	5/16/94	Total % Solid	--	--	82 %	--	--
				TPHC	69	yes	4,260	10,000	--
H	1492.8	5/13/94	5/16/94	Total % Solid	--	--	86%	--	--
				TPHC	69	yes	13,900	10,000	--
H	1502.1	5/23/94	5/24/94	Total % Solid	--	--	88 %	--	--
				TPHC	6.6	yes	7.79	10,000	--
I	1502.2	5/23/94	5/24/94	Total % Solid	--	--	92 %	--	--
				TPHC	6.6	yes	ND	10,000	--
J	1502.3	5/23/94	5/24/94	Total % Solid	--	--	85 %	--	--
				TPHC	6.6	yes	ND	10,000	--
K	1502.4	5/23/94	5/24/94	5/16/94	--	--	75 %	--	--
				TPHC	6.6	yes	ND	10,000	--
L	1502.5	5/23/94	5/24/94	Total % Solid	--	--	81 %	--	--
				TPHC	6.6	yes	ND	10,000	--
M	1502.6	5/23/94	5/24/94	Total % Solid	--	--	87 %	--	--
				TPHC	6.6	yes	ND	10,000	--

TABLE 2
 POST-EXCAVATION SOIL SAMPLING RESULTS
 BUILDING 707, MAIN POST
 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
N	1502.7	5/23/94	5/24/94	Total % Solid	--	--	86 %	--	--
				TPHC	6.6	yes	ND	10,000	--
O	1502.8	5/23/94	5/24/94	Total % Solid	--	--	85 %	--	--
				TPHC	6.6	yes	11.1	10,000	--
P	1502.9	5/23/94	5/24/94	Total % Solid	--	--	88 %	--	--
				TPHC	6.6	yes	ND	10,000	--

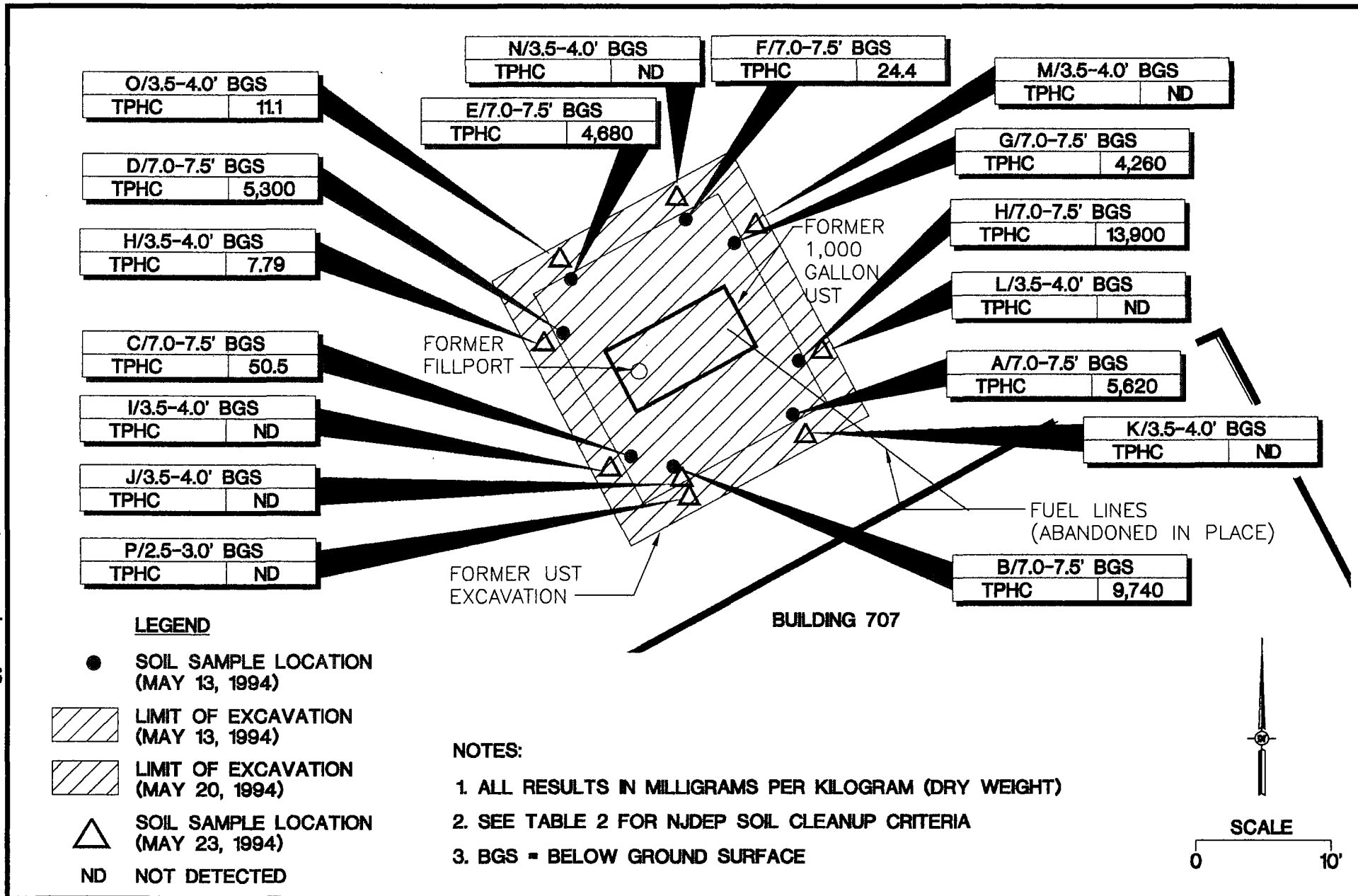
NOTES:

- : Not applicable / does not exceed criteria
- *: Cleanup criteria for total organics
- ND: Indicates compound not detected

Actual soil TPHC values may be higher than reported due to absorbancy by polystyrene scoops. If absorbancy resulted in reducing the actual soil TPHC concentration by 50%, the highest soil contaminant would be 22.2 mg/kg.

Source: Smith Technology Corporation (Smith Project No. 09-5004-12)
 707TBL.XLS

Source: Smith Technology Corporation (170)



The sample collected from MW-2 on June 13, 1995, contained methylene chloride at 2.1 ug/l, which exceeded the GWQS of 2.0 ug/l. This compound is also found in the sample field blank. The sample also contained 1,1-dichloroethane at 0.8 ug/l, tetrachloroethene at 1.1 ug/l, and trichloroethene at 1.0 ug/l. The tetrachloroethene concentration exceeded the GWQS of 1.0 ug/l. All other VOC and SVOC compounds were either non-detectable or below the GWQS.

The sample collected from MW-2 on January 30, 1997 contained methylene chloride at 25.18 ug/l, trichloroethene at 1.34 ug/l, and tetrachloroethene at 1.25 ug/l. These compounds exceeded the criteria of 2.0 ug/l, 1.0 ug/l and 1.0 ug/l, respectively. Methylene chloride was detected in the trip blank and field blank at concentrations of 5.55 ug/l and 110.66 ug/l, respectively. No other compounds were detected.

Based on the groundwater analytical results, tetrachloroethene and trichloroethene concentrations, exceeding NJDEP GWQS detected in monitoring well MW-2, are not indicative of the UST field. These compounds will be monitored and addressed in the site-wide investigation currently being conducted at Fort Monmouth under Defense Environmental Restoration Program (DERP), a long term monitoring program, approved by NJDEP.

No product or sheen was observed in MW-1 or MW-2 on any of the sampling dates. The depth to the water table in MW-1 was 9.0 feet below grade on May 18, 1995, 9.58 feet below grade on June 13, 1995, and 7.60 feet below grade on January 30, 1997. The depth to the water table in MW-2 was 14.93 feet below grade on May 18, 1995, 7.07 feet below grade on June 13, 1995 and 9.45 feet below grade on January 30, 1997.

All groundwater analytical results are presented in Table 3 and shown on Figure 4. The groundwater analytical data package is provided in Appendix F. The full data package, including quality control, is on file at U.S. Army Fort Monmouth, DPW.

3.3 CONCLUSIONS AND RECOMMENDATIONS

The analytical results for all post-excavation soil samples collected from the UST closure excavation at Building 707 are below the NJDEP soil cleanup criteria for total organic contaminants.

Based on the post-excavation soil sampling results, soils with concentrations of contaminants exceeding the NJDEP soil cleanup criteria do not remain in the former location of the UST.

Based on the analytical results of the groundwater samples collected from MW-1 and MW-2 on May 18, 1995, June 13, 1995, and January 30, 1997, groundwater quality at the Building 707 UST closure site exceeded the New Jersey Groundwater Quality Standards (GWQS) for methylene chloride, chloroform, tetrachloroethene, and trichloroethene. Methylene chloride is a common laboratory contaminant, and may reflect sampling and analytical interference rather than

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 707, MAIN POST, MW-1
FORT MONMOUTH, NEW JERSEY
SEMIVOLATILES

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/L)	Compound of Concern	Result (ug/L)	GWQS (ug/L)	Exceeds Criteria
MW-1	5/18/95	6/2/95	N-nitrosodimethylamine	2	--	ND	20	--
			bis(2-Chloroethyl)Ether	1	--	ND	10	--
			1,3-Dichlorobenzene	2	--	ND	600	--
			1,4-Dichlorobenzene	1	--	ND	75	--
			1,2-Dichlorobenzene	2	--	ND	600	--
			bis(2-chloroisopropyl)ether	5	--	ND	--	--
			N-Nitroso-Di-N-propylamine	2	--	ND	20	--
			Hexachloroethane	1	--	ND	10	--
			Nitrobenzene	2	--	ND	10	--
			Isophorone	1	--	ND	100	--
			bis(2-Chloroethoxy)methane	3	--	ND	--	--
			1,2,4-Trichlorobenzene	2	--	ND	9	--
			Naphthalene	2	--	ND	300	--
			Hexachlorobutadiene	2	--	ND	1	--
			Hexachlorocyclopentadiene	12	--	ND	50	--
			2-Chloronaphthalate	1	--	ND	--	--
			Dimethylphthalate	1	--	ND	--	--
			Acenaphthylene	5	--	ND	NA	--
			2,6-Dinitrotoluene	2	--	ND	NA	--
			Acenaphthene	3	--	ND	400	--
			2,4-Dinitrotoluene	3	--	ND	10	--
			Diethylphthalate	1	--	ND	5,000	--
			Fluorene	3	--	ND	300	--
			4-Chlorophenyl-phenylether	3	--	ND	--	--
			n-Nitrosodiphenylamine	6	--	ND	20	--
			1,2-Diphenylhydrazine(as az	6	--	ND	--	--
			4-Bromophenyl-phenylether	2	--	ND	--	--
			Hexachlorobenzene	2	--	ND	10	--
			Phenanthrene	2	--	ND	NA	--
			Anthracene	2	--	ND	2,000	--
			Di-n-butylphthalate	110	--	110	900	--
			Fluoranthene	1	--	ND	300	--
			Benzidine	1	--	ND	50	--
			Pyrene	2	--	ND	200	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 707, MAIN POST, MW-1
FORT MONMOUTH, NEW JERSEY
SEMIVOLATILES (continued)

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria			
MW-1	5/18/95	6/2/95	Butylbenzylphthalate	9	--	ND	--	--			
			Benzo(a)anthracene	2	--	ND	0.05	--			
			3,3'-Dichlorobenzidine	15	--	ND	60	--			
			Chrysene	2	--	ND	5	--			
			bis(2-Ethylhexyl)phthalate	4	--	ND	30	--			
			Di-n-octylphthalate	2	--	ND	100	--			
			Benzo(b)fluoranthene	1	--	ND	0.05	--			
			Benzo(k)fluoranthene	2	--	ND	0.5	--			
			Benzo(a)pyrene	2	--	ND	0.005	--			
			Indeno(1,2,3-cd)pyrene	2	--	ND	0.05	--			
			Dibenz(a,h)anthracene	3	--	ND	--	--			
			Benzo(g,h,i)perylene	2	--	ND	NA	--			
			SEMIVOLATILE TICS:								
					Unknown	--	--	9 J	--	--	

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 707, MAIN POST, MW-1
FORT MONMOUTH, NEW JERSEY
VOLATILES

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
MW-1	5/18/95	6/2/95	Dichlorodifluoromethane	0.5	--	ND	--	--
			Chloromethane	0.5	--	ND	30	--
			Bromomethane	0.5	--	ND	--	--
			Vinyl Chloride	0.5	--	ND	5	--
			Chloroethane	0.5	--	ND	--	--
			Trichlorofluoromethane	0.5	--	ND	--	--
			Methylene Chloride	0.8	--	0.8 B	2	--
			trans,1,2-Dichloroethene	0.5	--	ND	100	--
			1,1-Dichloroethene	0.5	--	ND	2	--
			1,1-Dichloroethane	0.5	--	ND	70	--
			2,2-Dichloropropane	0.5	--	ND	--	--
			Bromochloromethane	0.5	--	ND	--	--
			cis-1,2-Dichloroethene	0.5	--	ND	10	--
			Chloroform	1.10	--	1.10	6	--
			1,1-Dichloropropene	0.5	--	ND	--	--
			1,2-Dichloroethane	0.5	--	ND	2	--
			1,1,1-Trichloroethane	0.5	--	ND	30	--
			Dibromomethane	0.5	--	ND	--	--
			Carbon Tetrachloride	0.5	--	ND	2	--
			Bromodichloromethane	0.5	--	ND	1	--
			1,2-Dichloropropane	0.5	--	ND	1	--
			cis-1,3-Dichloropropene	0.5	--	ND	NA	--
			1,3-Dichloropropane	0.5	--	ND	--	--
			Trichloroethene	0.5	--	ND	1	--
			Dibromochloromethane	0.5	--	ND	10	--
			1,1,2-Trichloroethane	0.5	--	ND	3	--
			Benzene	0.5	--	ND	1	--
			trans-1,3-Dichloropropene	0.5	--	ND	NA	--
			Bromoform	0.5	--	ND	4	--
			1,1,1,2-Tetrachloroethane	0.5	--	ND	10	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 707, MAIN POST, MW-1
FORT MONMOUTH, NEW JERSEY
VOLATILES (continued)

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
MW-1	5/18/95	6/2/95	Tetrachloroethene	0.5	--	ND	1	--
			1,1,2,2-Tetrachloroethane	0.5	--	ND	2	--
			Toluene	0.5	--	ND	1,000	--
			1,2-Dibromoethane	0.5	--	ND	--	--
			Chlorobenzene	0.5	--	ND	4	--
			Ethylbenzene	0.5	--	ND	700	--
			Xylene (total)	0.5	--	ND	40	--
			Styrene	0.5	--	ND	100	--
			Isopropylbenzene	0.5	--	ND	--	--
			Bromobenzene	0.5	--	ND	--	--
			1,2,3-Trichloropropane	0.5	--	ND	--	--
			n-Propylbenzene	0.5	--	ND	--	--
			2-Chlorotoluene	0.5	--	ND	--	--
			4-Chlorotoluene	0.5	--	ND	--	--
			1,3,5-Trimethylbenzene	0.5	--	ND	--	--
			tert-Butylbenzene	0.5	--	ND	--	--
			1,2,4-Trimethylbenzene	0.5	--	ND	--	--
			sec-Butylbenzene	0.5	--	ND	--	--
			1,3-Dichlorobenzene	0.5	--	ND	600	--
			1,4-Dichlorobenzene	0.5	--	ND	75	--
			4-Isopropyltoluene	0.5	--	ND	--	--
			1,2-Dichlorobenzene	0.5	--	ND	600	--
			n-Butylbenzene	0.5	--	ND	--	--
			1,2-Dibromo-3-chloropropane	0.5	--	ND	NA	--
			1,2,4-Trichlorobenzene	0.5	--	ND	9	--
			Hexachlorobutadiene	0.5	--	ND	1	--
			Naphthalene	0.5	--	ND	300	--
			1,2,3-Trichlorobenzene	0.5	--	ND	--	--
			VOLATILE TICS:					
			NONE FOUND	--	--	--	--	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 707, MAIN POST, MW-2
FORT MONMOUTH, NEW JERSEY
SEMIVOLATILES

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
MW-2	5/18/95	6/2/95	N-nitrosodimethylamine	2	--	ND	20	--
			bis(2-Chloroethyl)Ether	1	--	ND	10	--
			1,3-Dichlorobenzene	2	--	ND	600	--
			1,4-Dichlorobenzene	1	--	ND	75	--
			1,2-Dichlorobenzene	2	--	ND	600	--
			bis(2-chloroisopropyl)ether	5	--	ND	--	--
			N-Nitroso-Di-N-propylamine	2	--	ND	20	--
			Hexachloroethane	1	--	ND	10	--
			Nitrobenzene	2	--	ND	10	--
			Isophorone	1	--	ND	100	--
			bis(2-Chloroethoxy)methane	3	--	ND	--	--
			1,2,4-Trichlorobenzene	2	--	ND	9	--
			Naphthalene	2	--	ND	300	--
			Hexachlorobutadiene	2	--	ND	1	--
			Hexachlorocyclopentadiene	12	--	ND	50	--
			2-Chloronaphthalate	1	--	ND	--	--
			Dimethylphthalate	1	--	ND	--	--
			Acenaphthylene	5	--	ND	NA	--
			2,6-Dinitrotoluene	2	--	ND	NA	--
			Acenaphthene	3	--	ND	400	--
			2,4-Dinitrotoluene	3	--	ND	10	--
			Diethylphthalate	1	--	ND	5,000	--
			Fluorene	3	--	ND	300	--
			4-Chlorophenyl-phenylether	3	--	ND	--	--
			n-Nitrosodiphenylamine	6	--	ND	20	--
			1,2-Diphenylhydrazine(as az	6	--	ND	--	--
			4-Bromophenyl-phenylether	2	--	ND	--	--
			Hexachlorobenzene	2	--	ND	10	--
			Phenanthrene	2	--	ND	NA	--
			Anthracene	2	--	ND	2,000	--
			Di-n-butylphthalate	92	--	92	900	--
			Fluoranthene	1	--	ND	300	--
			Benzidine	1	--	ND	50	--
			Pyrene	2	--	ND	200	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 707, MAIN POST, MW-2
FORT MONMOUTH, NEW JERSEY
SEMIVOLATILES (continued)

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria			
MW-2	5/18/95	6/2/95	Butylbenzylphthalate	9	--	ND	--	--			
			Benzo(a)anthracene	2	--	ND	0.05	--			
			3,3'-Dichlorobenzidine	15	--	ND	60	--			
			Chrysene	2	--	ND	5	--			
			bis(2-Ethylhexyl)phthalate	4	--	ND	30	--			
			Di-n-octylphthalate	2	--	ND	100	--			
			Benzo(b)fluoranthene	1	--	ND	0.05	--			
			Benzo(k)fluoranthene	2	--	ND	0.5	--			
			Benzo(a)pyrene	2	--	ND	0.005	--			
			Indeno(1,2,3-cd)pyrene	2	--	ND	0.05	--			
			Dibenz(a,h)anthracene	3	--	ND	--	--			
			Benzo(g,h,i)perylene	2	--	ND	NA	--			
			SEMIVOLATILE TICS:								
						Unknown	--	--	29	J	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 707, MAIN POST, MW-2
FORT MONMOUTH, NEW JERSEY
VOLATILES

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
MW-2	5/18/95	6/2/95	Dichlorodifluoromethane	0.5	--	ND	--	--
			Chloromethane	0.5	--	ND	30	--
			Bromomethane	0.5	--	ND	--	--
			Vinyl Chloride	0.5	--	ND	5	--
			Chloroethane	0.5	--	ND	--	--
			Trichlorofluoromethane	0.5	--	ND	--	--
			Methylene Chloride	1.40	--	1.40 B	2	--
			trans,1,2-Dichloroethene	0.5	--	ND	100	--
			1,1-Dichloroethene	0.5	--	ND	2	--
			1,1-Dichloroethane	0.6	--	0.6	70	--
			2,2-Dichloropropane	0.5	--	ND	--	--
			Bromochloromethane	0.5	--	ND	--	--
			cis-1,2-Dichloroethene	0.5	--	ND	10	--
			Chloroform	0.5	--	ND	6	--
			1,1-Dichloropropene	0.5	--	ND	--	--
			1,2-Dichloroethane	0.5	--	ND	2	--
			1,1,1-Trichloroethane	0.5	--	ND	30	--
			Dibromomethane	0.5	--	ND	--	--
			Carbon Tetrachloride	0.5	--	ND	2	--
			Bromodichloromethane	0.5	--	ND	1	--
			1,2-Dichloropropane	0.5	--	ND	1	--
			cis-1,3-Dichloropropene	0.5	--	ND	NA	--
			1,3-Dichloropropane	0.5	--	ND	--	--
			Trichloroethene	0.8	--	0.8	1	--
			Dibromochloromethane	0.5	--	ND	10	--
			1,1,2-Trichloroethane	0.5	--	ND	3	--
Benzene	0.5	--	ND	1	--			
trans-1,3-Dichloropropene	0.5	--	ND	NA	--			
Bromoform	0.5	--	ND	4	--			
1,1,1,2-Tetrachloroethane	0.5	--	ND	10	--			

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 707, MAIN POST, MW-2
FORT MONMOUTH, NEW JERSEY
VOLATILES (continued)

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
MW-2	5/18/95	6/2/95	Tetrachloroethene	0.8	--	0.8	1	--
			1,1,2,2-Tetrachloroethane	0.5	--	ND	2	--
			Toluene	0.5	--	ND	1,000	--
			1,2-Dibromoethane	0.5	--	ND	--	--
			Chlorobenzene	0.5	--	ND	4	--
			Ethylbenzene	0.5	--	ND	700	--
			Xylene (total)	0.5	--	ND	40	--
			Styrene	0.5	--	ND	100	--
			Isopropylbenzene	0.5	--	ND	--	--
			Bromobenzene	0.5	--	ND	--	--
			1,2,3-Trichloropropane	0.5	--	ND	--	--
			n-Propylbenzene	0.5	--	ND	--	--
			2-Chlorotoluene	0.5	--	ND	--	--
			4-Chlorotoluene	0.5	--	ND	--	--
			1,3,5-Trimethylbenzene	0.5	--	ND	--	--
			tert-Butylbenzene	0.5	--	ND	--	--
			1,2,4-Trimethylbenzene	0.5	--	ND	--	--
			sec-Butylbenzene	0.5	--	ND	--	--
			1,3-Dichlorobenzene	0.5	--	ND	600	--
			1,4-Dichlorobenzene	0.5	--	ND	75	--
			4-Isopropyltoluene	0.5	--	ND	--	--
			1,2-Dichlorobenzene	0.5	--	ND	600	--
			n-Butylbenzene	0.5	--	ND	--	--
			1,2-Dibromo-3-chloropropane	0.5	--	ND	NA	--
			1,2,4-Trichlorobenzene	0.5	--	ND	9	--
			Hexachlorobutadiene	0.5	--	ND	1	--
Naphthalene	0.5	--	ND	300	--			
1,2,3-Trichlorobenzene	0.5	--	ND	--	--			
VOLATILE TICS:								
			Methane, chlorodifluoro	--	--	1.5 J	--	--
			Colume Bleed	--	--	0.6 J	--	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 707, MAIN POST, TRIP BLANK
FORT MONMOUTH, NEW JERSEY
VOLATILES

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
TRIP BLANK	5/18/95	6/2/95	Dichlorodifluoromethane	0.5	--	ND	--	--
			Chloromethane	0.5	--	ND	30	--
			Bromomethane	0.5	--	ND	--	--
			Vinyl Chloride	0.5	--	ND	5	--
			Chloroethane	0.5	--	ND	--	--
			Trichlorofluoromethane	0.5	--	ND	--	--
			Methylene Chloride	5.1	--	5.1 B	2	yes
			trans,1,2-Dichloroethene	0.5	--	ND	100	--
			1,1-Dichloroethene	0.5	--	ND	2	--
			1,1-Dichloroethane	0.5	--	ND	70	--
			2,2-Dichloropropane	0.5	--	ND	--	--
			Bromochloromethane	0.5	--	ND	--	--
			cis-1,2-Dichloroethene	0.5	--	ND	10	--
			Chloroform	0.5	--	ND	6	--
			1,1-Dichloropropene	0.5	--	ND	--	--
			1,2-Dichloroethane	0.5	--	ND	2	--
			1,1,1-Trichloroethane	0.5	--	ND	30	--
			Dibromomethane	0.5	--	ND	--	--
			Carbon Tetrachloride	0.5	--	ND	2	--
			Bromodichloromethane	0.5	--	ND	1	--
			1,2-Dichloropropane	0.5	--	ND	1	--
			cis-1,3-Dichloropropene	0.5	--	ND	NA	--
			1,3-Dichloropropane	0.5	--	ND	--	--
			Trichloroethene	0.5	--	ND	1	--
			Dibromochloromethane	0.5	--	ND	10	--
			1,1,2-Trichloroethane	0.5	--	ND	3	--
			Benzene	0.5	--	ND	1	--
			trans-1,3-Dichloropropene	0.5	--	ND	NA	--
			Bromoform	0.5	--	ND	4	--
			1,1,1,2-Tetrachloroethane	0.5	--	ND	10	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 707, MAIN POST, TRIP BLANK
FORT MONMOUTH, NEW JERSEY
VOLATILES (continued)

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria	
TRIP BLANK	5/18/95	6/2/95	Tetrachloroethene	0.5	--	ND	1	--	
			1,1,2,2-Tetrachloroethane	0.5	--	ND	2	--	
			Toluene	0.5	--	ND	1,000	--	
			1,2-Dibromoethane	0.5	--	ND	--	--	
			Chlorobenzene	0.5	--	ND	4	--	
			Ethylbenzene	0.5	--	ND	700	--	
			Xylene (total)	0.5	--	ND	40	--	
			Styrene	0.5	--	ND	100	--	
			Isopropylbenzene	0.5	--	ND	--	--	
			Bromobenzene	0.5	--	ND	--	--	
			1,2,3-Trichloropropane	0.5	--	ND	--	--	
			n-Propylbenzene	0.5	--	ND	--	--	
			2-Chlorotoluene	0.5	--	ND	--	--	
			4-Chlorotoluene	0.5	--	ND	--	--	
			1,3,5-Trimethylbenzene	0.5	--	ND	--	--	
			tert-Butylbenzene	0.5	--	ND	--	--	
			1,2,4-Trimethylbenzene	0.5	--	ND	--	--	
			sec-Butylbenzene	0.5	--	ND	--	--	
			1,3-Dichlorobenzene	0.5	--	ND	600	--	
			1,4-Dichlorobenzene	0.5	--	ND	75	--	
			4-Isopropyltoluene	0.5	--	ND	--	--	
			1,2-Dichlorobenzene	0.5	--	ND	600	--	
			n-Butylbenzene	0.5	--	ND	--	--	
			1,2-Dibromo-3-chloropropane	0.5	--	ND	NA	--	
			1,2,4-Trichlorobenzene	0.5	--	ND	9	--	
			Hexachlorobutadiene	0.5	--	ND	1	--	
			Naphthalene	0.5	--	ND	300	--	
			1,2,3-Trichlorobenzene	0.5	--	ND	--	--	
			VOLATILE TICS:						
			NONE FOUND	--	--	--	--	--	

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 707, MAIN POST, FIELD BLANK
FORT MONMOUTH, NEW JERSEY
SEMIVOLATILES

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
FIELD BLANK	5/18/95	6/2/95	N-nitrosodimethylamine	2	--	ND	20	--
			bis(2-Chloroethyl)Ether	1	--	ND	10	--
			1,3-Dichlorobenzene	2	--	ND	600	--
			1,4-Dichlorobenzene	1	--	ND	75	--
			1,2-Dichlorobenzene	2	--	ND	600	--
			bis(2-chloroisopropyl)ether	5	--	ND	--	--
			N-Nitroso-Di-N-propylamine	2	--	ND	20	--
			Hexachloroethane	1	--	ND	10	--
			Nitrobenzene	2	--	ND	10	--
			Isophorone	1	--	ND	100	--
			bis(2-Chloroethoxy)methane	3	--	ND	--	--
			1,2,4-Trichlorobenzene	2	--	ND	9	--
			Naphthalene	2	--	ND	300	--
			Hexachlorobutadiene	2	--	ND	1	--
			Hexachlorocyclopentadiene	12	--	ND	50	--
			2-Chloronaphthalate	1	--	ND	--	--
			Dimethylphthalate	1	--	ND	--	--
			Acenaphthylene	5	--	ND	NA	--
			2,6-Dinitrotoluene	2	--	ND	NA	--
			Acenaphthene	3	--	ND	400	--
			2,4-Dinitrotoluene	3	--	ND	10	--
			Diethylphthalate	1	--	ND	5,000	--
			Fluorene	3	--	ND	300	--
			4-Chlorophenyl-phenylether	3	--	ND	--	--
			n-Nitrosodiphenylamine	6	--	ND	20	--
			1,2-Diphenylhydrazine(as az	6	--	ND	--	--
			4-Bromophenyl-phenylether	2	--	ND	--	--
			Hexachlorobenzene	2	--	ND	10	--
			Phenanthrene	2	--	ND	NA	--
			Anthracene	2	--	ND	2,000	--
			Di-n-butylphthalate	55	--	55	900	--
			Fluoranthene	1	--	ND	300	--
			Benzidine	1	--	ND	50	--
			Pyrene	2	--	ND	200	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 707, MAIN POST, FIELD BLANK
FORT MONMOUTH, NEW JERSEY
SEMIVOLATILES (continued)

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria			
FIELD BLANK	5/18/95	6/2/95	Butylbenzylphthalate	9	--	ND	--	--			
			Benzo(a)anthracene	2	--	ND	0.05	--			
			3,3'-Dichlorobenzidine	15	--	ND	60	--			
			Chrysene	2	--	ND	5	--			
			bis(2-Ethylhexyl)phthalate	4	--	ND	30	--			
			Di-n-octylphthalate	2	--	ND	100	--			
			Benzo(b)fluoranthene	1	--	ND	0.05	--			
			Benzo(k)fluoranthene	2	--	ND	0.5	--			
			Benzo(a)pyrene	2	--	ND	0.005	--			
			Indeno(1,2,3-cd)pyrene	2	--	ND	0.05	--			
			Dibenz(a,h)anthracene	3	--	ND	--	--			
			Benzo(g,h,i)perylene	2	--	ND	NA	--			
			SEMIVOLATILE TICS:								
						Unknown	--	--	14 J	--	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 707, MAIN POST, FIELD BLANK
FORT MONMOUTH, NEW JERSEY
VOLATILES

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
FIELD BLANK	5/18/95	6/2/95	Dichlorodifluoromethane	0.5	--	ND	--	--
			Chloromethane	0.5	--	ND	30	--
			Bromomethane	0.5	--	ND	--	--
			Vinyl Chloride	0.5	--	ND	5	--
			Chloroethane	0.5	--	ND	--	--
			Trichlorofluoromethane	0.5	--	ND	--	--
			Methylene Chloride	5.1	--	5.1 B	2	yes
			trans,1,2-Dichloroethene	0.5	--	ND	100	--
			1,1-Dichloroethene	0.5	--	ND	2	--
			1,1-Dichloroethane	0.5	--	ND	70	--
			2,2-Dichloropropane	0.5	--	ND	--	--
			Bromochloromethane	0.5	--	ND	--	--
			cis-1,2-Dichloroethene	0.5	--	ND	10	--
			Chloroform	0.5	--	ND	6	--
			1,1-Dichloropropene	0.5	--	ND	--	--
			1,2-Dichloroethane	0.5	--	ND	2	--
			1,1,1-Trichloroethane	0.5	--	ND	30	--
			Dibromomethane	0.5	--	ND	--	--
			Carbon Tetrachloride	0.5	--	ND	2	--
			Bromodichloromethane	0.5	--	ND	1	--
			1,2-Dichloropropane	0.5	--	ND	1	--
			cis-1,3-Dichloropropene	0.5	--	ND	NA	--
			1,3-Dichloropropane	0.5	--	ND	--	--
			Trichloroethene	0.5	--	ND	1	--
			Dibromochloromethane	0.5	--	ND	10	--
			1,1,2-Trichloroethane	0.5	--	ND	3	--
			Benzene	0.5	--	ND	1	--
			trans-1,3-Dichloropropene	0.5	--	ND	NA	--
			Bromoform	0.5	--	ND	4	--
			1,1,1,2-Tetrachloroethane	0.5	--	ND	10	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 707, MAIN POST, FIELD BLANK
FORT MONMOUTH, NEW JERSEY
VOLATILES (continued)

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
FIELD BLANK	5/18/95	6/2/95	Tetrachloroethene	0.5	--	ND	1	--
			1,1,2,2-Tetrachloroethane	0.5	--	ND	2	--
			Toluene	0.5	--	ND	1,000	--
			1,2-Dibromoethane	0.5	--	ND	--	--
			Chlorobenzene	0.5	--	ND	4	--
			Ethylbenzene	0.5	--	ND	700	--
			Xylene (total)	0.5	--	ND	40	--
			Styrene	0.5	--	ND	100	--
			Isopropylbenzene	0.5	--	ND	--	--
			Bromobenzene	0.5	--	ND	--	--
			1,2,3-Trichloropropane	0.5	--	ND	--	--
			n-Propylbenzene	0.5	--	ND	--	--
			2-Chlorotoluene	0.5	--	ND	--	--
			4-Chlorotoluene	0.5	--	ND	--	--
			1,3,5-Trimethylbenzene	0.5	--	ND	--	--
			tert-Butylbenzene	0.5	--	ND	--	--
			1,2,4-Trimethylbenzene	0.5	--	ND	--	--
			sec-Butylbenzene	0.5	--	ND	--	--
			1,3-Dichlorobenzene	0.5	--	ND	600	--
			1,4-Dichlorobenzene	0.5	--	ND	75	--
			4-Isopropyltoluene	0.5	--	ND	--	--
			1,2-Dichlorobenzene	0.5	--	ND	600	--
			n-Butylbenzene	0.5	--	ND	--	--
			1,2-Dibromo-3-chloropropane	0.5	--	ND	NA	--
			1,2,4-Trichlorobenzene	0.5	--	ND	9	--
			Hexachlorobutadiene	0.5	--	ND	1	--
			Naphthalene	0.5	--	ND	300	--
			1,2,3-Trichlorobenzene	0.5	--	ND	--	--
			VOLATILE TICS:					
			NONE FOUND	--	--	--	--	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 707, MAIN POST, MW-1
FORT MONMOUTH, NEW JERSEY
SEMIVOLATILES

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
MW-1	6/13/95	6/21/95	N-nitrosodimethylamine	2	--	ND	20	--
			bis(2-Chloroethyl)Ether	1	--	ND	10	--
			1,3-Dichlorobenzene	2	--	ND	600	--
			1,4-Dichlorobenzene	1	--	ND	75	--
			1,2-Dichlorobenzene	2	--	ND	600	--
			bis(2-chloroisopropyl)ether	5	--	ND	--	--
			N-Nitroso-Di-N-propylamine	2	--	ND	20	--
			Hexachloroethane	1	--	ND	10	--
			Nitrobenzene	2	--	ND	10	--
			Isophorone	1	--	ND	100	--
			bis(2-Chloroethoxy)methane	3	--	ND	--	--
			1,2,4-Trichlorobenzene	2	--	ND	9	--
			Naphthalene	2	--	ND	300	--
			Hexachlorobutadiene	2	--	ND	1	--
			Hexachlorocyclopentadiene	12	--	ND	50	--
			2-Chloronaphthalate	1	--	ND	--	--
			Dimethylphthalate	1	--	ND	--	--
			Acenaphthylene	5	--	ND	NA	--
			2,6-Dinitrotoluene	2	--	ND	NA	--
			Acenaphthene	3	--	ND	400	--
			2,4-Dinitrotoluene	3	--	ND	10	--
			Diethylphthalate	1	--	ND	5,000	--
			Fluorene	3	--	ND	300	--
			4-Chlorophenyl-phenylether	3	--	ND	--	--
			n-Nitrosodiphenylamine	6	--	ND	20	--
			1,2-Diphenylhydrazine(as az	6	--	ND	--	--
			4-Bromophenyl-phenylether	2	--	ND	--	--
			Hexachlorobenzene	2	--	ND	10	--
			Phenanthrene	2	--	ND	NA	--
			Anthracene	2	--	ND	2,000	--
			Di-n-butylphthalate	5	--	ND	900	--
			Fluoranthene	1	--	ND	300	--
			Benzidine	1	--	ND	50	--
			Pyrene	2	--	ND	200	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 707, MAIN POST, MW-1
FORT MONMOUTH, NEW JERSEY
SEMIVOLATILES (continued)

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
MW-1	6/13/95	6/21/95	Butylbenzylphthalate	9	--	ND	--	--
			Benzo(a)anthracene	2	--	ND	0.05	--
			3,3'-Dichlorobenzidine	15	--	ND	60	--
			Chrysene	2	--	ND	5	--
			bis(2-Ethylhexyl)phthalate	4	--	ND	30	--
			Di-n-octylphthalate	2	--	ND	100	--
			Benzo(b)fluoranthene	1	--	ND	0.05	--
			Benzo(k)fluoranthene	2	--	ND	0.5	--
			Benzo(a)pyrene	2	--	ND	0.005	--
			Indeno(1,2,3-cd)pyrene	2	--	ND	0.05	--
			Dibenz(a,h)anthracene	3	--	ND	--	--
			Benzo(g,h,i)perylene	2	--	ND	NA	--
			SEMIVOLATILE TICS:					
NONE FOUND			--	--	--	--	--	

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 707, MAIN POST, MW-1
FORT MONMOUTH, NEW JERSEY
VOLATILES

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
MW-1	6/13/95	6/21/95	Dichlorodifluoromethane	0.5	--	ND	--	--
			Chloromethane	0.5	--	ND	30	--
			Bromomethane	0.5	--	ND	--	--
			Vinyl Chloride	0.5	--	ND	5	--
			Chloroethane	0.5	--	ND	--	--
			Trichlorofluoromethane	0.5	--	ND	--	--
			Methylene Chloride	2.3	--	2.3 B	2	yes
			trans,1,2-Dichloroethene	0.5	--	ND	100	--
			1,1-Dichloroethene	0.5	--	ND	2	--
			1,1-Dichloroethane	0.5	--	ND	70	--
			2,2-Dichloropropane	0.5	--	ND	--	--
			Bromochloromethane	0.5	--	ND	--	--
			cis-1,2-Dichloroethene	0.5	--	ND	10	--
			Chloroform	0.8	--	0.8	6	--
			1,1-Dichloropropene	0.5	--	ND	--	--
			1,2-Dichloroethane	0.5	--	ND	2	--
			1,1,1-Trichloroethane	0.5	--	ND	30	--
			Dibromomethane	0.5	--	ND	--	--
			Carbon Tetrachloride	0.5	--	ND	2	--
			Bromodichloromethane	0.5	--	ND	1	--
			1,2-Dichloropropane	0.5	--	ND	1	--
			cis-1,3-Dichloropropene	0.5	--	ND	NA	--
			1,3-Dichloropropane	0.5	--	ND	--	--
			Trichloroethene	0.5	--	ND	1	--
			Dibromochloromethane	0.5	--	ND	10	--
			1,1,2-Trichloroethane	0.5	--	ND	3	--
Benzene	0.5	--	ND	1	--			
trans-1,3-Dichloropropene	0.5	--	ND	NA	--			
Bromoform	0.5	--	ND	4	--			
1,1,1,2-Tetrachloroethane	0.5	--	ND	10	--			

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 707, MAIN POST, MW-1
FORT MONMOUTH, NEW JERSEY
VOLATILES (continued)

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
MW-1	6/13/95	6/21/95	Tetrachloroethene	0.5	--	ND	1	--
			1,1,2,2-Tetrachloroethane	0.5	--	ND	2	--
			Toluene	0.5	--	ND	1,000	--
			1,2-Dibromoethane	0.5	--	ND	--	--
			Chlorobenzene	0.5	--	ND	4	--
			Ethylbenzene	0.5	--	ND	700	--
			Xylene (total)	0.5	--	ND	40	--
			Styrene	0.5	--	ND	100	--
			Isopropylbenzene	0.5	--	ND	--	--
			Bromobenzene	0.5	--	ND	--	--
			1,2,3-Trichloropropane	0.5	--	ND	--	--
			n-Propylbenzene	0.5	--	ND	--	--
			2-Chlorotoluene	0.5	--	ND	--	--
			4-Chlorotoluene	0.5	--	ND	--	--
			1,3,5-Trimethylbenzene	0.5	--	ND	--	--
			tert-Butylbenzene	0.5	--	ND	--	--
			1,2,4-Trimethylbenzene	0.5	--	ND	--	--
			sec-Butylbenzene	0.5	--	ND	--	--
			1,3-Dichlorobenzene	0.5	--	ND	600	--
			1,4-Dichlorobenzene	0.5	--	ND	75	--
			4-Isopropyltoluene	0.5	--	ND	--	--
			1,2-Dichlorobenzene	0.5	--	ND	600	--
			n-Butylbenzene	0.5	--	ND	--	--
			1,2-Dibromo-3-chloropropane	0.5	--	ND	NA	--
			1,2,4-Trichlorobenzene	0.5	--	ND	9	--
			Hexachlorobutadiene	0.5	--	ND	1	--
			Naphthalene	0.5	--	ND	300	--
			1,2,3-Trichlorobenzene	0.5	--	ND	--	--
			VOLATILE TICS:					
			NONE FOUND	--	--	--	--	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 707, MAIN POST, MW-2
FORT MONMOUTH, NEW JERSEY
SEMIVOLATILES

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
MW-2	6/13/95	6/26/95	N-nitrosodimethylamine	2	--	ND	20	--
			bis(2-Chloroethyl)Ether	1	--	ND	10	--
			1,3-Dichlorobenzene	2	--	ND	600	--
			1,4-Dichlorobenzene	1	--	ND	75	--
			1,2-Dichlorobenzene	2	--	ND	600	--
			bis(2-chloroisopropyl)ether	5	--	ND	--	--
			N-Nitroso-Di-N-propylamine	2	--	ND	20	--
			Hexachloroethane	1	--	ND	10	--
			Nitrobenzene	2	--	ND	10	--
			Isophorone	1	--	ND	100	--
			bis(2-Chloroethoxy)methane	3	--	ND	--	--
			1,2,4-Trichlorobenzene	2	--	ND	9	--
			Naphthalene	2	--	ND	300	--
			Hexachlorobutadiene	2	--	ND	1	--
			Hexachlorocyclopentadiene	12	--	ND	50	--
			2-Chloronaphthalate	1	--	ND	--	--
			Dimethylphthalate	1	--	ND	--	--
			Acenaphthylene	5	--	ND	NA	--
			2,6-Dinitrotoluene	2	--	ND	NA	--
			Acenaphthene	3	--	ND	400	--
			2,4-Dinitrotoluene	3	--	ND	10	--
			Diethylphthalate	1	--	ND	5,000	--
			Fluorene	3	--	ND	300	--
			4-Chlorophenyl-phenylether	3	--	ND	--	--
			n-Nitrosodiphenylamine	6	--	ND	20	--
			1,2-Diphenylhydrazine(as az	6	--	ND	--	--
			4-Bromophenyl-phenylether	2	--	ND	--	--
			Hexachlorobenzene	2	--	ND	10	--
			Phenanthrene	2	--	ND	NA	--
			Anthracene	2	--	ND	2,000	--
			Di-n-butylphthalate	5	--	ND	900	--
			Fluoranthene	1	--	ND	300	--
			Benzidine	1	--	ND	50	--
			Pyrene	2	--	ND	200	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 707, MAIN POST, MW-2
FORT MONMOUTH, NEW JERSEY
SEMIVOLATILES (continued)

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/L)	Compound of Concern	Result (ug/L)	GWQS (ug/L)	Exceeds Criteria
MW-2	6/13/95	6/26/95	Butylbenzylphthalate	9	--	ND	--	--
			Benzo(a)anthracene	2	--	ND	0.05	--
			3,3'-Dichlorobenzidine	15	--	ND	60	--
			Chrysene	2	--	ND	5	--
			bis(2-Ethylhexyl)phthalate	4	--	ND	30	--
			Di-n-octylphthalate	2	--	ND	100	--
			Benzo(b)fluoranthene	1	--	ND	0.05	--
			Benzo(k)fluoranthene	2	--	ND	0.5	--
			Benzo(a)pyrene	2	--	ND	0.005	--
			Indeno(1,2,3-cd)pyrene	2	--	ND	0.05	--
			Dibenz(a,h)anthracene	3	--	ND	--	--
			Benzo(g,h,i)perylene	2	--	ND	NA	--
			SEMIVOLATILE TICS:					
			NONE FOUND	--	--	--	--	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 707, MAIN POST, MW-2
FORT MONMOUTH, NEW JERSEY
VOLATILES

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
MW-2	6/13/95	6/26/95	Dichlorodifluoromethane	0.5	--	ND	--	--
			Chloromethane	0.5	--	ND	30	--
			Bromomethane	0.5	--	ND	--	--
			Vinyl Chloride	0.5	--	ND	5	--
			Chloroethane	0.5	--	ND	--	--
			Trichlorofluoromethane	0.5	--	ND	--	--
			Methylene Chloride	2.1	--	2.1 B	2	yes
			trans,1,2-Dichloroethene	0.5	--	ND	100	--
			1,1-Dichloroethene	0.5	--	ND	2	--
			1,1-Dichloroethane	0.8	--	0.8	70	--
			2,2-Dichloropropane	0.5	--	ND	--	--
			Bromochloromethane	0.5	--	ND	--	--
			cis-1,2-Dichloroethene	0.5	--	ND	10	--
			Chloroform	0.5	--	ND	6	--
			1,1-Dichloropropene	0.5	--	ND	--	--
			1,2-Dichloroethane	0.5	--	ND	2	--
			1,1,1-Trichloroethane	0.5	--	ND	30	--
			Dibromomethane	0.5	--	ND	--	--
			Carbon Tetrachloride	0.5	--	ND	2	--
			Bromodichloromethane	0.5	--	ND	1	--
			1,2-Dichloropropane	0.5	--	ND	1	--
			cis-1,3-Dichloropropene	0.5	--	ND	NA	--
			1,3-Dichloropropane	0.5	--	ND	--	--
			Trichloroethene	1.0	--	1.0	1	--
			Dibromochloromethane	0.5	--	ND	10	--
			1,1,2-Trichloroethane	0.5	--	ND	3	--
			Benzene	0.5	--	ND	1	--
			trans-1,3-Dichloropropene	0.5	--	ND	NA	--
			Bromoform	0.5	--	ND	4	--
			1,1,1,2-Tetrachloroethane	0.5	--	ND	10	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 707, MAIN POST, MW-2
FORT MONMOUTH, NEW JERSEY
VOLATILES (continued)

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria	
MW-2	6/13/95	6/26/95	Tetrachloroethene	1.1	--	1.1	1	yes	
			1,1,2,2-Tetrachloroethane	0.5	--	ND	2	--	
			Toluene	0.5	--	ND	1,000	--	
			1,2-Dibromoethane	0.5	--	ND	--	--	
			Chlorobenzene	0.5	--	ND	4	--	
			Ethylbenzene	0.5	--	ND	700	--	
			Xylene (total)	0.5	--	ND	40	--	
			Styrene	0.5	--	ND	100	--	
			Isopropylbenzene	0.5	--	ND	--	--	
			Bromobenzene	0.5	--	ND	--	--	
			1,2,3-Trichloropropane	0.5	--	ND	--	--	
			n-Propylbenzene	0.5	--	ND	--	--	
			2-Chlorotoluene	0.5	--	ND	--	--	
			4-Chlorotoluene	0.5	--	ND	--	--	
			1,3,5-Trimethylbenzene	0.5	--	ND	--	--	
			tert-Butylbenzene	0.5	--	ND	--	--	
			1,2,4-Trimethylbenzene	0.5	--	ND	--	--	
			sec-Butylbenzene	0.5	--	ND	--	--	
			1,3-Dichlorobenzene	0.5	--	ND	600	--	
			1,4-Dichlorobenzene	0.5	--	ND	75	--	
			4-Isopropyltoluene	0.5	--	ND	--	--	
			1,2-Dichlorobenzene	0.5	--	ND	600	--	
			n-Butylbenzene	0.5	--	ND	--	--	
			1,2-Dibromo-3-chloropropane	0.5	--	ND	NA	--	
			1,2,4-Trichlorobenzene	0.5	--	ND	9	--	
			Hexachlorobutadiene	0.5	--	ND	1	--	
			Naphthalene	0.5	--	ND	300	--	
			1,2,3-Trichlorobenzene	0.5	--	ND	--	--	
			VOLATILE TICS:						
			Methane, chlorodifluoro	--	--	2 J	--	--	
			Benzene, (1-methylpropyl)	--	--	1 J	--	--	
			Column Bleed	--	--	1 J	--	--	

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 707, MAIN POST, TRIP BLANK
FORT MONMOUTH, NEW JERSEY
VOLATILES

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
TRIP BLANK	6/13/95	6/21/95	Dichlorodifluoromethane	0.5	--	ND	--	--
			Chloromethane	0.5	--	ND	30	--
			Bromomethane	0.5	--	ND	--	--
			Vinyl Chloride	0.5	--	ND	5	--
			Chloroethane	0.5	--	ND	--	--
			Trichlorofluoromethane	0.5	--	ND	--	--
			Methylene Chloride	2.3	--	2.3 B	2	yes
			trans,1,2-Dichloroethene	0.5	--	ND	100	--
			1,1-Dichloroethene	0.5	--	ND	2	--
			1,1-Dichloroethane	0.5	--	ND	70	--
			2,2-Dichloropropane	0.5	--	ND	--	--
			Bromochloromethane	0.5	--	ND	--	--
			cis-1,2-Dichloroethene	0.5	--	ND	10	--
			Chloroform	0.5	--	ND	6	--
			1,1-Dichloropropene	0.5	--	ND	--	--
			1,2-Dichloroethane	0.5	--	ND	2	--
			1,1,1-Trichloroethane	0.5	--	ND	30	--
			Dibromomethane	0.5	--	ND	--	--
			Carbon Tetrachloride	0.5	--	ND	2	--
			Bromodichloromethane	0.5	--	ND	1	--
			1,2-Dichloropropane	0.5	--	ND	1	--
			cis-1,3-Dichloropropene	0.5	--	ND	NA	--
			1,3-Dichloropropane	0.5	--	ND	--	--
			Trichloroethene	0.5	--	ND	1	--
			Dibromochloromethane	0.5	--	ND	10	--
			1,1,2-Trichloroethane	0.5	--	ND	3	--
			Benzene	0.5	--	ND	1	--
			trans-1,3-Dichloropropene	0.5	--	ND	NA	--
			Bromoform	0.5	--	ND	4	--
			1,1,1,2-Tetrachloroethane	0.5	--	ND	10	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 707, MAIN POST, TRIP BLANK
FORT MONMOUTH, NEW JERSEY
VOLATILES (continued)

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria	
TRIP BLANK	6/13/95	6/21/95	Tetrachloroethene	0.5	--	ND	1	--	
			1,1,2,2-Tetrachloroethane	0.5	--	ND	2	--	
			Toluene	0.5	--	ND	1,000	--	
			1,2-Dibromoethane	0.5	--	ND	--	--	
			Chlorobenzene	0.5	--	ND	4	--	
			Ethylbenzene	0.5	--	ND	700	--	
			Xylene (total)	0.5	--	ND	40	--	
			Styrene	0.5	--	ND	100	--	
			Isopropylbenzene	0.5	--	ND	--	--	
			Bromobenzene	0.5	--	ND	--	--	
			1,2,3-Trichloropropane	0.5	--	ND	--	--	
			n-Propylbenzene	0.5	--	ND	--	--	
			2-Chlorotoluene	0.5	--	ND	--	--	
			4-Chlorotoluene	0.5	--	ND	--	--	
			1,3,5-Trimethylbenzene	0.5	--	ND	--	--	
			tert-Butylbenzene	0.5	--	ND	--	--	
			1,2,4-Trimethylbenzene	0.5	--	ND	--	--	
			sec-Butylbenzene	0.5	--	ND	--	--	
			1,3-Dichlorobenzene	0.5	--	ND	600	--	
			1,4-Dichlorobenzene	0.5	--	ND	75	--	
			4-Isopropyltoluene	0.5	--	ND	--	--	
			1,2-Dichlorobenzene	0.5	--	ND	600	--	
			n-Butylbenzene	0.5	--	ND	--	--	
			1,2-Dibromo-3-chloropropane	0.5	--	ND	NA	--	
			1,2,4-Trichlorobenzene	0.5	--	ND	9	--	
			Hexachlorobutadiene	0.5	--	ND	1	--	
			Naphthalene	0.5	--	ND	300	--	
			1,2,3-Trichlorobenzene	0.5	--	ND	--	--	
			VOLATILE TICS:						
			NONE FOUND			--	--	--	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 707, MAIN POST, FIELD BLANK
FORT MONMOUTH, NEW JERSEY
SEMIVOLATILES

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
FIELD BLANK	6/13/95	6/26/95	N-nitrosodimethylamine	2	--	ND	20	--
			bis(2-Chloroethyl)Ether	1	--	ND	10	--
			1,3-Dichlorobenzene	2	--	ND	600	--
			1,4-Dichlorobenzene	1	--	ND	75	--
			1,2-Dichlorobenzene	2	--	ND	600	--
			bis(2-chloroisopropyl)ether	5	--	ND	--	--
			N-Nitroso-Di-N-propylamine	2	--	ND	20	--
			Hexachloroethane	1	--	ND	10	--
			Nitrobenzene	2	--	ND	10	--
			Isophorone	1	--	ND	100	--
			bis(2-Chloroethoxy)methane	3	--	ND	--	--
			1,2,4-Trichlorobenzene	2	--	ND	9	--
			Naphthalene	2	--	ND	300	--
			Hexachlorobutadiene	2	--	ND	1	--
			Hexachlorocyclopentadiene	12	--	ND	50	--
			2-Chloronaphthalate	1	--	ND	--	--
			Dimethylphthalate	1	--	ND	--	--
			Acenaphthylene	5	--	ND	NA	--
			2,6-Dinitrotoluene	2	--	ND	NA	--
			Acenaphthene	3	--	ND	400	--
			2,4-Dinitrotoluene	3	--	ND	10	--
			Diethylphthalate	1	--	ND	5,000	--
			Fluorene	3	--	ND	300	--
			4-Chlorophenyl-phenylether	3	--	ND	--	--
			n-Nitrosodiphenylamine	6	--	ND	20	--
			1,2-Diphenylhydrazine(as az	6	--	ND	--	--
			4-Bromophenyl-phenylether	2	--	ND	--	--
			Hexachlorobenzene	2	--	ND	10	--
			Phenanthrene	2	--	ND	NA	--
			Anthracene	2	--	ND	2,000	--
			Di-n-butylphthalate	5	--	ND	900	--
			Fluoranthene	1	--	ND	300	--
			Benzidine	1	--	ND	50	--
			Pyrene	2	--	ND	200	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 707, MAIN POST, FIELD BLANK
FORT MONMOUTH, NEW JERSEY
SEMIVOLATILES (continued)

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
FIELD BLANK	6/13/95	6/26/95	Butylbenzylphthalate	9	--	ND	--	--
			Benzo(a)anthracene	2	--	ND	0.05	--
			3,3'-Dichlorobenzidine	15	--	ND	60	--
			Chrysene	2	--	ND	5	--
			bis(2-Ethylhexyl)phthalate	4	--	ND	30	--
			Di-n-octylphthalate	2	--	ND	100	--
			Benzo(b)fluoranthene	1	--	ND	0.05	--
			Benzo(k)fluoranthene	2	--	ND	0.5	--
			Benzo(a)pyrene	2	--	ND	0.005	--
			Indeno(1,2,3-cd)pyrene	2	--	ND	0.05	--
			Dibenz(a,h)anthracene	3	--	ND	--	--
			Benzo(g,h,i)perylene	2	--	ND	NA	--
			SEMIVOLATILE TICS:					
NONE FOUND			--	--	--	--	--	

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 707, MAIN POST, FIELD BLANK
FORT MONMOUTH, NEW JERSEY
VOLATILES

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
FIELD BLANK	6/13/95	6/21/95	Dichlorodifluoromethane	0.5	--	ND	--	--
			Chloromethane	0.5	--	ND	30	--
			Bromomethane	0.5	--	ND	--	--
			Vinyl Chloride	0.5	--	ND	5	--
			Chloroethane	0.5	--	ND	--	--
			Trichlorofluoromethane	0.5	--	ND	--	--
			Methylene Chloride	2.1	--	2.1 B	2	yes
			trans,1,2-Dichloroethene	0.5	--	ND	100	--
			1,1-Dichloroethene	0.5	--	ND	2	--
			1,1-Dichloroethane	0.5	--	ND	70	--
			2,2-Dichloropropane	0.5	--	ND	--	--
			Bromochloromethane	0.5	--	ND	--	--
			cis-1,2-Dichloroethene	0.5	--	ND	10	--
			Chloroform	0.5	--	ND	6	--
			1,1-Dichloropropene	0.5	--	ND	--	--
			1,2-Dichloroethane	0.5	--	ND	2	--
			1,1,1-Trichloroethane	0.5	--	ND	30	--
			Dibromomethane	0.5	--	ND	--	--
			Carbon Tetrachloride	0.5	--	ND	2	--
			Bromodichloromethane	0.5	--	ND	1	--
			1,2-Dichloropropane	0.5	--	ND	1	--
			cis-1,3-Dichloropropene	0.5	--	ND	NA	--
			1,3-Dichloropropane	0.5	--	ND	--	--
			Trichloroethene	0.5	--	ND	1	--
			Dibromochloromethane	0.5	--	ND	10	--
			1,1,2-Trichloroethane	0.5	--	ND	3	--
			Benzene	0.5	--	ND	1	--
			trans-1,3-Dichloropropene	0.5	--	ND	NA	--
			Bromoform	0.5	--	ND	4	--
			1,1,1,2-Tetrachloroethane	0.5	--	ND	10	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 707, MAIN POST, FIELD BLANK
FORT MONMOUTH, NEW JERSEY
VOLATILES (continued)

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
FIELD BLANK	6/13/95	6/21/95	Tetrachloroethene	0.5	--	ND	1	--
			1,1,2,2-Tetrachloroethane	0.5	--	ND	2	--
			Toluene	0.5	--	ND	1,000	--
			1,2-Dibromoethane	0.5	--	ND	--	--
			Chlorobenzene	0.5	--	ND	4	--
			Ethylbenzene	0.5	--	ND	700	--
			Xylene (total)	0.5	--	ND	40	--
			Styrene	0.5	--	ND	100	--
			Isopropylbenzene	0.5	--	ND	--	--
			Bromobenzene	0.5	--	ND	--	--
			1,2,3-Trichloropropane	0.5	--	ND	--	--
			n-Propylbenzene	0.5	--	ND	--	--
			2-Chlorotoluene	0.5	--	ND	--	--
			4-Chlorotoluene	0.5	--	ND	--	--
			1,3,5-Trimethylbenzene	0.5	--	ND	--	--
			tert-Butylbenzene	0.5	--	ND	--	--
			1,2,4-Trimethylbenzene	0.5	--	ND	--	--
			sec-Butylbenzene	0.5	--	ND	--	--
			1,3-Dichlorobenzene	0.5	--	ND	600	--
			1,4-Dichlorobenzene	0.5	--	ND	75	--
			4-Isopropyltoluene	0.5	--	ND	--	--
			1,2-Dichlorobenzene	0.5	--	ND	600	--
			n-Butylbenzene	0.5	--	ND	--	--
			1,2-Dibromo-3-chloropropane	0.5	--	ND	NA	--
			1,2,4-Trichlorobenzene	0.5	--	ND	9	--
			Hexachlorobutadiene	0.5	--	ND	1	--
			Naphthalene	0.5	--	ND	300	--
			1,2,3-Trichlorobenzene	0.5	--	ND	--	--
			VOLATILE TICS:					
			NONE FOUND	--	--	--	--	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 707, MAIN POST, MW-1
FORT MONMOUTH, NEW JERSEY
VOLATILES

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
MW-1	1/30/97	2/13/97	Dichlorodifluoromethane	0.04	--	ND	--	--
			Chloromethane	0.13	--	ND	30	--
			Vinyl Chloride	0.08	--	ND	5	--
			Bromomethane	0.09	--	ND	--	--
			Chloroethane	0.08	--	ND	--	--
			Trichlorofluoromethane	0.12	--	ND	--	--
			1,1-Dichloroethene	0.11	--	ND	2	--
			Methylene Chloride	0.04	--	27.83	2	yes
			trans,1,2-Dichloroethene	0.06	--	ND	100	--
			1,1-Dichloroethane	0.08	--	ND	70	--
			Chloroform	0.03	--	7.53	6	yes
			1,1,1-Trichloroethane	0.02	--	ND	30	--
			Carbon Tetrachloride	0.09	--	ND	2	--
			1,2-Dichloroethane	0.02	--	ND	2	--
			Trichloroethene	0.06	--	ND	1	--
			1,2-Dichloropropane	0.03	--	ND	1	--
			Bromodichloromethane	0.08	--	ND	1	--
			2 Chloroethylvinyl ether	0.08	--	ND	--	--
			cis-1,3-Dichloropropene	0.07	--	ND	NA	--
			trans-1,3-Dichloropropene	0.01	--	ND	NA	--
			1,1,2-Trichloroethane	0.02	--	ND	3	--
			Tetrachloroethene	0.07	--	ND	1	--
			Dibromochloromethane	0.07	--	ND	10	--
			Bromoform	0.03	--	ND	4	--
			1,1,1,2-Tetrachloroethane	0.02	--	ND	10	--
			Benzene	0.05	--	ND	1	--
			Toluene	0.04	--	ND	1,000	--
			Chlorobenzene	0.04	--	ND	4	--
			Ethylbenzene	0.05	--	ND	700	--
			Xylene (total)	0.04	--	ND	40	--
1,3-Dichlorobenzene	0.16	--	ND	600	--			
1,4-Dichlorobenzene	0.18	--	ND	75	--			
1,2-Dichlorobenzene	0.18	--	ND	600	--			

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 707, MAIN POST, MW-2
FORT MONMOUTH, NEW JERSEY
VOLATILES

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
MW-2	1/30/97	2/13/97	Dichlorodifluoromethane	0.04	--	ND	--	--
			Chloromethane	0.13	--	ND	30	--
			Vinyl Chloride	0.08	--	ND	5	--
			Bromomethane	0.09	--	ND	--	--
			Chloroethane	0.08	--	ND	--	--
			Trichlorofluoromethane	0.12	--	ND	--	--
			1,1-Dichloroethene	0.11	--	ND	2	--
			Methylene Chloride	0.04	--	25.18	2	yes
			trans,1,2-Dichloroethene	0.06	--	ND	100	--
			1,1-Dichloroethane	0.08	--	ND	70	--
			Chloroform	0.03	--	ND	6	--
			1,1,1-Trichloroethane	0.02	--	ND	30	--
			Carbon Tetrachloride	0.09	--	ND	2	--
			1,2-Dichloroethane	0.02	--	ND	2	--
			Trichloroethene	0.06	--	1.34	1	yes
			1,2-Dichloropropane	0.03	--	ND	1	--
			Bromodichloromethane	0.08	--	ND	1	--
			2 Chloroethylvinyl ether	0.08	--	ND	--	--
			cis-1,3-Dichloropropene	0.07	--	ND	NA	--
			trans-1,3-Dichloropropene	0.01	--	ND	NA	--
			1,1,2-Trichloroethane	0.02	--	ND	3	--
			Tetrachloroethene	0.07	--	1.25	1	yes
			Dibromochloromethane	0.07	--	ND	10	--
			Bromoform	0.03	--	ND	4	--
			1,1,1,2-Tetrachloroethane	0.02	--	ND	10	--
			Benzene	0.05	--	ND	1	--
			Toluene	0.04	--	ND	1,000	--
			Chlorobenzene	0.04	--	ND	4	--
			Ethylbenzene	0.05	--	ND	700	--
			Xylene (total)	0.04	--	ND	40	--
1,3-Dichlorobenzene	0.16	--	ND	600	--			
1,4-Dichlorobenzene	0.18	--	ND	75	--			
1,2-Dichlorobenzene	0.18	--	ND	600	--			



State of New Jersey
 Department of Environmental Protection and Energy
 Hazardous Waste Regulation Program
 Manifest Section
 CN 028, Trenton, NJ 08625-0028

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.) 03943 Form Approved. OMB No. 2050-0039. Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NJ03211010205917		Manifest Document No. 03943		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address US Army Communications Electronics Command c/o James Shirghio, Bldg 2504, ATTN: SELFM-DL-EM-MS, Fort Monmouth, NJ 07703 MAIN POST				A. State Manifest Document Number NJ 1603245		B. State Generator's ID a) 0121 789 c- 0121 708 b) 0121 745 d- 0121 708			
4. Generator's Phone (908) 532-6224		5. Transporter 1 Company Name Freehold Cartagwe, Inc.		6. US EPA ID Number NJ JD 10 15 4 1 12 16 1 16 4		C. State Trans. ID NJDEPE 521265		D. Transporter's Phone (908) 462-1001	
7. Transporter 2 Company Name		8. US EPA ID Number		9. Designated Facility Name and Site Address Lionetti Oil Recovery Co., Inc. Runyon & Cheesequake Rds. Old Bridge, NJ 08857		10. US EPA ID Number NJ JD 10 18 4 10 14 14 10 16 4		E. State Trans. ID	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM		12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		1. Waste No.	
a. X Petroleum oil, N.O.S. Class 3 (Petroleum Oil) Combustible Liquid UN 1270 PG III		01 01 1 T T		004 28 G		X 7 2 2			
b. X Petroleum oil, nos class 3 (Petroleum oil) combustible liquid UN 1270 PG III		01 01 1 T T		003 06 G		X 7 2 2			
c. X Petroleum oil, nos class 3 (Petroleum oil) combustible liquid UN 1270 PG III		00 11 T T		005 32 G		X 7 2 2			
d. X Petroleum oil, nos class 3 (Petroleum oil) combustible liquid UN 1270 P		00 11 T T		005 06 G		X 7 2 2			
J. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above					
a. T,L Petroleum Oil 70% Water 30%		c. T,L Petroleum Oil 70% Water 30%		T04= Filtration		T04= Filtration			
b. T,L Petroleum Oil 70% Water 30%		d. T,L Petroleum Oil 70% Water 30%		T04= Filtration		T04= Filtration			
15. Special Handling Instructions and Additional Information NOT REGULATED BY EPA. REGULATED AS HAZARDOUS WASTE IN NJ 24 HOUR EMERGENCY# 201-427-2881 NJ DECAL# 55462 a) 81533-126 c- 81533-114 b) 81533-119 d- 81533-0K									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name Charles M. Appleby SELFM-Per-EU				Signature <i>[Signature]</i>				Month Day Year 6 14 12 11 12 14	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name David S. Smith				Signature <i>[Signature]</i>				Month Day Year 10 14 12 11 12 14	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name				Signature				Month Day Year	
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name									
Signature				Month Day Year					

Bldg 2504 - UST File Copy NJA 1003245

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

Print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

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

**UNIFORM HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No. **M J J 7 U 0 0 2 0 9 9 7 9 0 9 7 7**
Manifest Document No. _____

2. Page 1 of _____
Information in the shaded areas is not required by Federal Law.

Generator's Name and Mailing Address
**U. S. Army Communications Electronics Command Main Post
C/O James Shirghio, Bldg. 2504 ATTH: SELPX-DL-EM-MS
Fort Monmouth, NJ 07703**

A. State Manifest Document No. **INJA 2880**

4. Transporter 1 Company Name
**Casia Ecology Oil Salvage, Inc.
TA Casie/Protank**

B. State Generator's ID No. _____

5. Transporter 1 US EPA ID Number
U 1 7 0 6 4 5 9 9 5 4 9 9

C. State Trans. ID No. _____

7. Transporter 2 Company Name _____

D. Transporter's Phone (_____) _____

9. Designated Facility Name and Site Address
**Casia Ecology Oil Salvage, Inc. TA Casie/Protank
3209 N. Mill Road
Vineland, NJ 09360**

E. State Trans. ID-NJDEP _____

10. US EPA ID Number
MT 0 0 4 5 1 1 5 6 1 9

F. Transporter's Phone (_____) _____

11. US DOT Description (Including Proper Shipping Name, Hazard Class or Division, ID Number and Packing Group)
**Oil contaminated solids
Not E.O.T. regulated**

G. State Facility's ID No. **061AD11P02**

H. Facility's Phone (_____) **609-696-4401**

12. Containers No.	13. Total Quantiv	14. Unit Wt/Vol	15. Waste No.
15000	X 30	X 5X100	9

GENERATOR

J. Additional Descriptions for Materials Listed Above
XXXX 3, T

K. Handling Codes for Waste Listed Above

15. Special Handling Instructions and Additional Information
**This is a NJ regulated waste not a RCRA hazardous waste.
-4 hr emergency response #609-696-4401 Greg Clifford**

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name
X Joseph M. Fallon

Signature
X Joseph M. Fallon Month Day Year **06 28 94**

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name
Jin Wasey

Signature
Jin Wasey Month Day Year **06 28 94**

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name _____

Signature _____ Month Day Year _____

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name _____

Signature _____ Month Day Year _____

UNDERGROUND STORAGE TANK REMOVAL (UST)

(Submit one form for each tank)

0081533 - 226

Building No. 707 NJDEPE UST Reg. No. No UST #

IJO No. 91-0148 Date Tank Removed 5/11/94

ITEM NO.	ITEM OF WORK	UNIT	UNIT PRICE	QUANTITY	TOTAL PRICE
01100-1.1	Rmv ID#27 soil to stockpile	TN	\$14.50	153.98	\$2,232.71
01100-1.2	Supply, fill & relocate 55 Gal containers to storage	CT	\$47.50		\$ N/A
01100-1.4	Rmv & dispose of #2 fuel mixed with water Manifest #:NJA	GL	\$ 0.69	2400	\$ 1,656.00
01100-1.5	Rmv & dispose of #2 fuel mixed with solvent Manifest #:NJA	GL	\$ 4.50		\$ N/A
01100-1.8	Rmv & dispose of diesel fuel	GL	\$ 0.69		\$ N/A
01100-1.7	Rmv & dispose of diesel fuel mixed with water Manifest #:NJA	GL	\$ 0.69		\$ N/A
02050-1 & 02050-4	Tank removal	GL	\$ 0.975	1000	\$ 975.00
02050-5.1	Sawcut blacktop *	TN	\$27.50		\$ N/A
02050-5.2	Sawcut concrete *	TN	\$29.50		\$ N/A
02050-5.3	Sawcut reinforced concrete	TN	\$32.50		\$ N/A
02222-1.1	Backfill cert. clean fill *	TN	\$16.25	125.42	\$ 2,038.08
02222-1.2	3/4" clean stone *	TN	\$17.50	28.56	\$ 499.80
02511-1.1	Concrete slab 4" thick	SY	\$19.80		\$ N/A
02511-1.2	Concrete slab 6" thick	SY	\$21.80		\$ N/A
02511-1.3	Concrete slab 8" thick	SY	\$24.50		\$ N/A
02511-1.4	6" Concrete curb	LF	\$16.00		\$ N/A
02551-1.1	6" Base course of 3/4" dirty blend stone	SY	\$ 6.40		\$ N/A
02551-1.2	4" stabilized base	SY	8.00		\$ N/A
02551-1.3	2" top course	SY	\$ 5.30		\$ N/A
02935-1.1	4" top soil & sod	SY	\$ 7.80		\$ N/A
02935-1.2	4" top soil & hydroseed	SY	\$ 5.40	890	\$ 4,806.00

* Supply certified weight tickets to Contracting Officer at time of request for payment.

\$12,207.59

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

NAME (Print or Type): John Lonergan SIGNATURE:

NJDEPE UST Closure Cert. #: 0003248 DATE: June 9, 1994

COMPANY NAME: CUTE, Inc.
(Performer of Tank Decommissioning)

NJDEPE UST Closure Corp. Cert. #: 0200128

List of Abbreviations:

CT = 55 Gallon Container GL = Gallon TN = Tons

CALCULATION SHEET

Building No. 707

NJDEPE Reg. No. 0081533-226

Tank Size 1000 gal

Tank Void 7.5 tons

CLEAN FILL

ITEM NO.	DESCRIPTION	QUANTITY	TICKET #
02222-1.1	clean fill	19.8	18732
"	"	23.5	18711
"	"	22.82	18712
"	"	22.8	18713
"	"	22.0	18717
"	"	22.0	18718
		TOTAL	132.92

STONE

ITEM NO.	DESCRIPTION	QUANTITY	TICKET #
02222-1.2	3/4" stone	4.8	924130
"	"	23.77	929214

TOTAL 28.57

ID#27 soil to stockpile $(132.92 + 28.57) - 7.5 = 153.99$ tons

Chargeable clean fill $132.92 - 7.5 = 125.42$

Chargeable stone 28.57



FREEHOLD CARTAGE, INC.

P.O. BOX 5010
FREEHOLD, NJ 07728-5010
PHONE: (888) 482-1001
FAX: (888) 308-0924

176 BARTOW MUN. AIRPORT
BARTOW, FL 33830
PHONE: (813) 533-4580
FAX: (813) 533-1813

106 MONAHAN AVENUE
DUNMORE, PA 15612
PHONE: (717) 342-7232
FAX: (717) 342-7887

MANIFEST

FCI EPA ID NO.:
NJ0054128164

52559

STATE MANIFEST NO.:

(X) HM	PROPER U.S. DOT SHIPPING NAME	U.S. DOT HAZARDOUS CLASS	PACKING GROUP	NAUN NO.	FORM	NET QTY.	UNIT MEASURE
1	NON-HAZARDOUS WASTE - WATER	N/A	N/A	N/A	Lig	5500	G
2							
3							

SPECIAL HANDLING INSTRUCTIONS INCLUDING CONTAINER EXEMPTION (I.E., IDENTIFICATION SHIPMENT OF A NON-HAZARDOUS NATURE WHICH DOES NOT HAVE TO BE MANIFESTED).

NJDEP 15939 - 23520

GENERATOR NAME/ADDRESS US ARMY COMMUNICATIONS ELECTRONICS COMMAND Mtn. Rd and Childs Road FORT MONMOUTH NJ		PHONE 908 (AREA CODE) 530 - 6223	GENERATOR EPA ID NO. NJ010001
TRACTOR 63	TRAILER 314	TIME AT GENERATOR (MILITARY TIME ONLY) ARRIVAL TIME 07:00	DEPARTURE TIME 1
FCI REP. LOADING (PRINT) David Smith	PROCEDURE —	BOX SPOTTED *	BOX REMOVED *
COMMENTS OR DELAYS AT GENERATOR		EQUIPMENT USED R14 207 8153-226 2400	R14 207 8153-168 100
		R14 207 192486-37 25390	2100

GENERATOR'S CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S. EPA and the State. The wastes described above were consigned to the Transported named, The Treatment, Storage or Disposal Facility can and will accept the shipment of hazardous waste, and has a valid permit to do so. I certify that the foregoing is true and correct to the best of my knowledge.

Payment to the contractor for waste removal does not constitute payment to the carrier and if the contractor does not pay the carrier, the generator is obligated to pay the agreed rate offered to the contractor.

GENERATOR SIGNATURE X	PLEASE PRINT NAME/TITLE Charles M. Appleby / S&S - NJ - EV	DATE LOADED 5/27/94 MO. DAY YR.
--------------------------	---	---------------------------------------

TSDF NAME/ADDRESS E.I. DUPONT COMPANY CHAMBERS WORKS RT #130 DEERWATER NJ 08023		PHONE 609 (AREA CODE) 540 - 2773	TSDF EPA ID NO. NJ010001238157310
TRACTOR 63	TRAILER 314	TIME AT TSDF (MILITARY TIME ONLY) ARRIVAL TIME	DEPARTURE TIME
FCI REP. UNLOADING (PRINT) David Smith	PROCEDURE	BOX SPOTTED *	BOX REMOVED *
COMMENTS OR DELAYS AT TSDF		EQUIPMENT USED	

TSDF SIGNATURE X	PLEASE PRINT NAME/TITLE	DATE UNLOADED 5/27/94 MO. DAY YR.
---------------------	-------------------------	---

AR H-0257 PC 944	ME ME-HWT-47 NE-WOT-47	MO H-1490 ND WH-429	NOVA SCOTIA, CANADA NSO 000 147	QUEBEC, CANADA OC-001-047
CT CT-HW-307	MD HMH-167 81-CP-1785	NH THH-0047	OH 888-HW	RI RI-693
DE DE-HW-203 DE-SW-203	MA MA-296	NJ S-2285 15939	OK 3358	TX 40708
IL 5VH-1540	MN 61572	NY JA-118	ONTARIO, CANADA A 84043	WI 11802
			PA PA-AH-0067	

Original - FCI Office Copy
Yellow - FCI Office Copy
Blue - FCI Office Copy/Client
Green - Retained by TSDF
Gold - Retained by Generator

52559

Tank 702 -
2.7 tons
Tank 707
19.8 tons



1453 W. Park Ave., Wayside
Asbury Park, N.J. 07712
808-483-3333

18732

Name BK A/14
Address C.U.T.E. INC
Clean Fill

Order Date May 11, 94
Delivery Date _____
Delivered C.O.D.
F.O.B./P.U. Charge

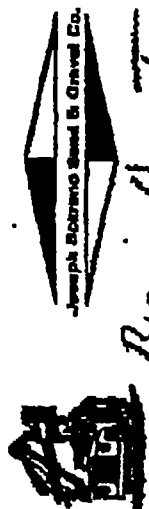
Item(s)	Quantity / Measure (tons, lbs., yds., ea.)	Unit Price	Total
	G: 73,590		
	T: 28,600	22.50 tons	
	N: 44,990		

Driver BROWN
Received [Signature]

Sub Total	
Delivery	
N.J. Tax	
Total	

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

Have gravel will travel!
since 1925



1453 W. Park Ave., Weymouth
Abury Park, N.J. 07712
908-483-3833

18711

Order Date MY 17 1974

Deliver Date 1/21/74

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

Name Big A Trucking

Address C/AN FILL

Item(s)	Quantity / Measure (tons, lbs., yds., ea.)	Unit Price	Total
	73000		
	76000	23.5 tons	
	47000		
Sub Total			
Delivery			
N.J. Tax			
Total			

Driver Randy
 Received JK 361
 KRISTEN W. KELLY
 P.W.D.P.C.
 No. 25
 * Company not responsible for change in color of public road color not guaranteed
 Have gravel with material since 1985



Joseph Scarsone Sand & Gravel Co.

1453 W. Park Ave, Weavalds
Asbury Park, N.J. 07712
808-493-3333

18712

Order Date May 22, 11

Name By A Trucking

Deliver Date _____

Address Clan Hill

Delivered G.O.D.
F.O.B./P.U. Charge

Item(s)	Quantity / Measure (tons, lbs., yds., ea.)	Unit Price	Total
	G 72400		
	F 76000		
	N 75648	22.82 tons	
Sub-Total			
Delivery			
N.J. Tax			
Total			



Driver [Signature]

Received TR362

* Company not responsible for damage done off policy grade. Order not guaranteed!

These grades will be supplied since 1925

18713

Order Date May 27, 74

Deliver Date _____

Delivered C.O.D.

FOB/P.U. Charge

1453 W. Park Ave., Wayside
Asbury Park, N.J. 07712
908-483-3333



Big A Trucking

Name _____
Address Clean Fill

Item(s)	Quantity / Measure (tons, lbs., yds., ea.)	Unit Price	Total
	<u>5 71600</u>		
	<u>T 26000</u>	<u>22.8 tons</u>	
	<u>N 45600</u>		
Sub Total			
Delivery			
N.J. Tax			
Total			



Driver _____

Received _____

* Company not responsible for damage done on public roads. Color not guaranteed.

These gravel will travel since 1925.



Joseph Romano Sand & Gravel Co.

1453 W. Park Ave. Wayfield
Asbury Park, N.J. 07712
808-468-9333

18717

Order Date May 1 1985

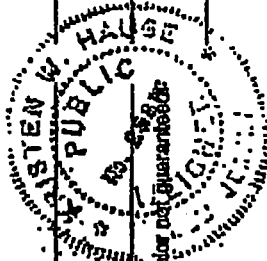
Deliver Date _____

Delivered C.O.D.

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

Name Big A Trucking
Address _____

Item(s)	Quantity / Measure (tons, lbs., yds., ea.)	Unit Price	Total
	5-70 000		
	57 26 000		
	N 44000	22 tons	



Driver _____
Receiver Shulby 361

* Company not responsible for damage done on public roads. Color not guaranteed.

Plans ground will travel since 1985

Sub Total

Delivery

N.J. Tax

Total



1453 W. Park Ave., Weyside
Asbury Park, N.J. 07712
808-493-3333

18718

Name

Big A

Address

C/EN Fill

Order Date

11/12/77

Deliver Date

1/1/78

Delivered

G.O.D.

F.O.B./P.U.

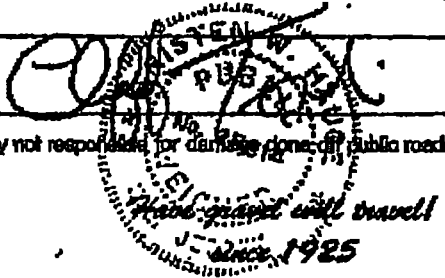
Charge

Item(s)	Quantity / Measure (tons, lbs., yds., ea.)	Unit Price	Total
<i>G</i>	<i>70000</i>		
<i>T</i>	<i>26000</i>	<i>22 tons</i>	
<i>N</i>	<i>44000</i>		

Driver

Received

* Company not responsible for damage done on public roads. Color not guaranteed



Sub Total

Delivery

N.J. Tax

Total

S. C. M. I. - BOUND BROOK

CUSTOMER'S COPY



CONTROL NO.
A-924130

Stavola Construction Materials, Inc.

PLANT: CHIMNEY ROCK ROAD, BOUND BROOK, N.J. - 808/366-6700

Bldg 1108
14.5 tons
Bldg 702
4.8 tons
Bldg 707
4.8 tons

X T. [Signature]
DRIVER'S SIGNATURE

RECEIVED/ACCEPTED BY
X D. [Signature]
CUSTOMER'S SIGNATURE

EXECUTIVE OFFICE
HAMILTON ROAD
TINTON FALLS, N.J.
908/542-2328

**CRUSHED STONE • SAND
• GRAVEL**

ADDRESS REPLY TO
P.O. BOX 482
RED BANK, N.J. 07701

THIS COMPANY WILL NOT BE RESPONSIBLE FOR DAMAGE CAUSED BY VEHICLES DELIVERING MATERIALS OFF PUBLIC ROADS.

EXPLANATION OF DELIVERY CODES

- 1 - F.O.B.
- 2 - DELIVERED
- 3 - NET DELIVERED

DATE	05/11/94	CUST. NO.	08888	JOB NO.	13:34	TICKET NO.	924130	
CUSTOMER				DELIVER TO		GROSS		
CLEANING UP THE ENVIRONMENT 103 GEDWIN AVE. P.O. BOX 237 MIDLAND PARK NJ 07432				ZONE: FT MONMOUTH BLDG 296		37.94		
						TARE		
						13.85		
						NET		
						24.09		
TRUCKER	TRUCK NO.	DRIVER NO.	METHOD OF PAYMENT			DELIVERY CODE	ZONE	
04251	2		CHARGE			2	030	
QUANTITY	PRODUCT CODE/DESCRIPTION		UNIT OF MEASURE	UNIT PRICE	EXTENDED	FREIGHT	SALES TAX	TOTAL
24.09	20 3/4 GRS-DGA		T			4.35		
COMMENTS						WAIT TIME		
LOADS ACCU. TONS						GRAND TOTAL		
1 24.09								

JUN 17 04 10E 13:20
 U. S. I. S.
 0000 024 101 000 000
 F. 14

S. L. P. I. - BOUND BROOK

CUSTOMER'S COPY



CONTROL NO.
A-929214

Stavola Construction Materials, Inc.

PLANT: CHIMNEY ROCK ROAD, BOUND BROOK, N.J. • 908/356-5700

Bldg 707

X [Signature]
DRIVER'S SIGNATURE

RECEIVED & ACCEPTED BY
X [Signature]
CUSTOMER'S SIGNATURE

**CRUSHED STONE • SAND
• GRAVEL**

EXECUTIVE OFFICE
HAMILTON ROAD
TINTON FALLS, N.J.
908/542-2328

ADDRESS REPLY TO:
P.O. BOX 489
RED BANK, N.J. 07701

THIS COMPANY WILL NOT BE RESPONSIBLE FOR DAMAGE CAUSED BY VEHICLES DELIVERING MATERIALS OFF PUBLIC ROADS.

EXPLANATION OF DELIVERY CODES
1 - F.O.B. 4.8 tons
2 - DELIVERED
3 - NET DELIVERED

DATE	05/20/94	CUST. NO.	08888	JOB NO.	10123	TICKET NO.	929214
CUSTOMER				DELIVER TO		GROSS	
CLEANING UP THE ENVIRONMENT 102 GODWIN AVE. P.O. BOX 237 MIDLAND PARK NJ 07432				ZONE 3-T MONMOUTH BEHIND BLDG 296		36.77	
TRUCKER				METHOD OF PAYMENT		DELIVERY CODE	
28991		5		CHARGE		2	
QUANTITY				UNIT PRICE		TOTAL	
23.77		13 3/4 INCH CLEAN 8		T		4.35	
COMMENTS						WAIT TIME	
LOADS						GRAND TOTAL	
4						96.57	

F. 19

FAX NO. 201 923 8050

C. U. T. E.

JUN- 7-94 TUE 13:28

APPENDIX C
UST DISPOSAL CERTIFICATE

Fort Monmouth tanks
 on Bid # 101 - No closure
 Bid # 101 - No closure
 745 / 0081533-119
 702 / 0081533-114
 789 / 0081533-126
 707 - No closure

MAZZA & SONS, INC.
 Metal Recyclers
 Auto and Truck
 3230 Shaflo Rd.
 Tinton Falls, NJ
 (908) 922-9292

NO. _____
 DATE 01/14/94

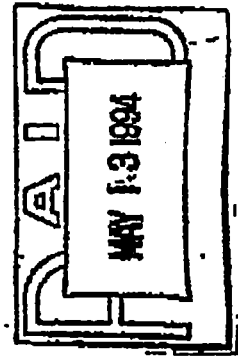
Cuts inc

Customer's Name _____
 Address _____

Fort Monmouth
 Tanks
 745 / 0081533-119 39360 LB 6
 762 / 0081533-114 35720 LB 6
 789 / 0081533-126
 707 No closure

	Weight	Price
Cast Iron		
Steel	<u>72.80</u>	
T. Iron		
Copper #1		
Copper #2		
Lt. Copper		
Brass		
Alum Clean		
Lead		
Stainless		
Refractory		
Battery		
TOTAL AMOUNT:		

3640



Weighter _____ Customer Don Ellis

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

BUILDING NO. 707

NJDEP UST REGISTRATION

DATE TANK REMOVED

IJO / CONTRACT NUMBER

*Check Field
Notes -
Verify Tank
Size*

I CERTIFY UNDER PENALTY
WERE PERFORMED IN COMF
THERE ARE SIGNIFICANT PE
INCOMPLETE INFORMATION

ACTIVITIES
VARE THAT
DURATE, OR
ENT.

NAME (Print or Type) John Loneygan

SIGNATURE *[Signature]*

NJDEP UST CLOSURE CERTIFICATE NO. 0003248

COMPANY PERFORMING TANK DECOMMISSIONING GUTE Inc.

NJDEP UST CLOSURE CORPORATE CERTIFICATE NO. 0200128

DATE OF SUBMITTAL 6/10/94

UNDERGROUND STORAGE TANK REMOVAL (UST)

(Submit one form for each tank)

008/533 - 226

Building No. 707 NJDEPE UST Reg. No. No UST #

IJO No. 91-0148 Date Tank Removed 5/11/94

ITEM NO.	ITEM OF WORK	UNIT	UNIT PRICE	QUANTITY	TOTAL PRICE
01100-1.1	Rmv ID#27 soil to stockpile	TN	\$14.50	153.98	\$ 2,232.71
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01100-1.4	Rmv & dispose of #2 fuel mixed with water Manifest #:NJA	GL	\$ 0.69	2400	\$ 1,656.00
01100-1.5	Rmv & dispose of #2 fuel mixed with solvent Manifest #:NJA	GL	\$ 4.50		\$ N/A
01100-1.6	Rmv & dispose of diesel fuel	GL	\$ 0.69		\$ N/A
01100-1.7	Rmv & dispose of diesel fuel mixed with water Manifest #:NJA	GL	\$ 0.69		\$ N/A
02050-1 & 02050-4	Tank removal	GL	\$ 0.975	1000	\$ 975.00
02050-5.1	Sawcut blacktop *	TN	\$27.50		\$ N/A
02050-5.2	Sawcut concrete *	TN	\$29.50		\$ N/A
02050-5.3	Sawcut reinforced concrete	TN	\$32.50		\$ N/A
02222-1.1	Backfill cert. clean fill *	TN	\$16.25	125.42	\$ 2,038.08
02222-1.2	3/4" clean stone *	TN	\$17.50	28.56	\$ 499.80
02511-1.1	Concrete slab 4" thick	SY	\$19.80		\$ N/A
02511-1.2	Concrete slab 6" thick	SY	\$21.80		\$ N/A
02511-1.3	Concrete slab 8" thick	SY	\$24.50		\$ N/A
02511-1.4	6" Concrete curb	LF	\$16.00		\$ N/A
02551-1.1	6" Base course of 3/4" dirty blend stone	SY	\$ 6.40		\$ N/A
02551-1.2	4" stabilized base	SY	8.00		\$ N/A
02551-1.3	2" top course	SY	\$ 5.90		\$ N/A
02935-1.1	4" top soil & sod	SY	\$ 7.80		\$ N/A
02935-1.2	4" top soil & hydroseed	SY	\$ 5.40	890	\$ 4,806.00

CALCULATION SHEET

Building No. 707

NJDEPE Reg. No. 0084533-226
~~0084533~~

Tank Size 1000 gal

Tank Void 7.5 tons

CLEAN FILL

ITEM NO.	DESCRIPTION	QUANTITY	TICKET #
02222-1.1	clean fill	19.8	18732
"	"	23.5	18711
"	"	22.82	18712
"	"	22.8	18713
"	"	22.0	18717
"	"	22.0	18718
TOTAL		132.92	

STONE

ITEM NO.	DESCRIPTION	QUANTITY	TICKET #
02222-1.2	3/4" stone	4.8	924130
"	"	23.77	929214
TOTAL		28.57	

ID#27 soil to stockpile $(132.92 + 28.57) - 7.5 = 153.99$ tons

Chargeable clean fill $132.92 - 7.5 = 125.42$

Chargeable stone 28.57



FREEHOLD CARTAGE, INC.

P.O. BOX 5310
FREEHOLD, NJ 07728-5310
PHONE: (803) 482-1001
FAX: (803) 308-0024

175 BARTOW MUN. AIRPORT
BARTOW, FL 33830
PHONE: (813) 533-4590
FAX: (813) 533-1613

108 MONAHAN AVENUE
DUNMORE, PA 15112
PHONE: (717) 342-7232
FAX: (717) 342-7087

MANIFEST

FCI EPA ID NO.:
NJ0054128164
② 52559

STATE MANIFEST NO.:

(X) HM	PROPER U.S. DOT SHIPPING NAME	U.S. DOT HAZARDOUS CLASS	PACKING GROUP	NAUN NO.	FORM	NET QTY.	UNIT MEASURE
1	NON-HAZARDOUS WASTE - WATER	N/A	N/A	N/A	Liq	5500	G
2							
3							

SPECIAL HANDLING INSTRUCTIONS INCLUDING CONTAINER EXEMPTION (I.E. IDENTIFICATION SHIPMENT OF A NON-HAZARDOUS NATURE WHICH DOES NOT HAVE TO BE MANIFESTED).

NJDEP 15939 - 23520

GENERATOR NAME/ADDRESS US ARMY COMMUNICATIONS ELECTRONICS COMMAND ATTN: Pst And Charles Wood Area FORT MONMOUTH NJ		PHONE 908 (AREA CODE) 530 - 6223		GENERATOR EPA ID NO. NJ0054128164			
PCI REP. LOADING (PRINT) David Smith		PROCEDURE —	BOX SPOTTED *	BOX REMOVED *	EQUIPMENT USED 8153-226 2400 8153-168 100 8153-37 2700		
COMMENTS OR DELAYS AT GENERATOR				TIME AT GENERATOR (MILITARY TIME ONLY) ARRIVAL TIME 07:00 DEPARTURE TIME 1			
GENERATOR'S CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S. EPA and the state. The wastes described above were consigned to the Transported named, The Treatment, Storage or Disposal Facility can and will accept the shipment of hazardous waste, and has a valid permit to do so. I certify that the foregoing is true and correct to the best of my knowledge.		GENERATOR SIGNATURE X Charles M. Amodeo		PLEASE PRINT NAME/TITLE Charles M. Amodeo / SFCM-10-2V		DATE LOADED 5/27/94	

TSDP NAME/ADDRESS E.I. DUPONT COMPANY CHAMBERS WORKS RT # 130 DEERWATER NJ 08023		PHONE 609 (AREA CODE) 540 - 2773		TSDP EPA ID NO. NJD0021318157310			
PCI REP. UNLOADING (PRINT) David Smith		PROCEDURE	BOX SPOTTED *	BOX REMOVED *	EQUIPMENT USED		
COMMENTS OR DELAYS AT TSDP				TIME AT TSDP (MILITARY TIME ONLY) ARRIVAL TIME DEPARTURE TIME			

TSDP SIGNATURE		PLEASE PRINT NAME/TITLE		DATE UNLOADED 5/27/94			
----------------	--	-------------------------	--	--------------------------	--	--	--

0081533-119
0081533-114
0081533-126
07 - No closure

MAZZA & SONS, INC.
Metal Recyclers.
Auto and Truck
3230 Shaflo Rd.
Tinton Falls, NJ
(908) 922-8282

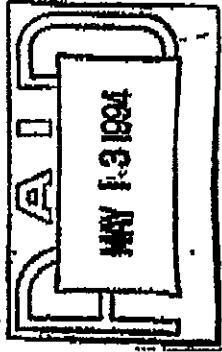
NO. _____
DATE 2/19/94

Customer's Name Cutz Inc

Address _____

Fort Monmouth ~~081533-119~~ ~~39360 LB S~~
Tanks ~~35720 LB S~~
081533-119 39360 LB S
762 ASSEP 0081533-114
189 ASSEP 0081533-126
167 No closure 3640

	Weight	Price
Cust Iron		
Steel	<u>72.80</u>	
Lt. Iron		
Copper #1		
Copper #2		
Lt. Copper		
Brass		
Alum Clean		
Lead		
Stainless		
Radfators		
Battery		
TOTAL AMOUNT:		



Weighter _____ Customer Dan Ellis

Tank 702 -
2.7 tons
Tank 707
19.8 tons



1453 W. Park Ave., Wayside
Asbury Park, N.J. 07712
808-483-3333

B6 A/214

C.U.T.E. INC

Clean Fill

18732

Order Date May 11, 94

Deliver Date _____

Delivered C.O.D.

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

Unit(s)	Quantity / Measure (tons, lbs., yds, ea.)	Unit Price	Total
	G: 73,590		
	T: 28,600		
	N: 44,990		
			22.50 tons
		Sub Total	
		Delivery	
		N.J. Tax	
		Total	

GREEN

[Signature]

Resists damage from oil spills & acids. Color not guaranteed!

These gravel will travel
since 1925



1453 W. Park Ave., Weyside
Asbury Park, N.J. 07712
908-493-9333

18711

Order Date MY 17, 74

Big A Trucking

Deliver Date _____

CLAN FILL

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

Item(s)	Quantity / Measure (tons, lbs., yds, ea.)	Unit Price	Total
	73000		
	26000	23.5 tons	
	47000		

[Signature]
 KRISTEN W. HLU
 PUBLISHED
 No. 25
 responsible for change of publication color not guaranteed
 There's nothing else around.
 Since 1925

Sub Total	
Delivery	
N.J. Tax	
Total	



1458 W. Park Ave., Wayside
Asbury Park, N.J. 07712
908-493-3333

18712

Order Date May 27, 11

Buy A Trucking

Deliver Date

Delivered C.O.D.

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

Clay Fill

Item(s)	Quantity / Measure (tons, lbs., yds., ea.)	Unit Price	Total
	G 72400		
	F 26000		
	N 45648	22.82 tons	
Sub-Total			
Delivery			
N.J. Tax			
Total			



[Signature]

responsible for damage done off job site. Customer guaranteed!

These gravel will transport since 1925



1453 W. Park Ave., Wayside
Asbury Park, N.J. 07712
908-493-3333

18713

Order Date May 27, 74

By A. Trucking

Deliver Date

Delivered C.O.D.

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

Clean Fill

Item(s)	Quantity / Measure (tons, lbs., yds., ea.)	Unit Price	Total
	G 71600		
	T 26000	22.8 tons	
	N 45600		
Sub Total			
Delivery			
N.J. Tax			
Total			



Don. S. [Signature]
Responsible for damage done off public roads. Color not guaranteed

*These gravel well served
since 1925.*



1453 W. Park Ave., Wayside
 Asbury Park, N.J. 07712
 808-463-3833

18717

Order Date May 15 1985

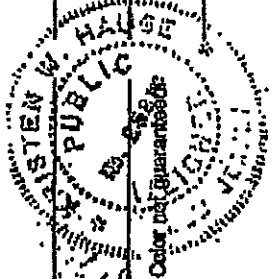
Deliver Date _____

Delivered G.O.D.

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

A Trucking

Item(s)	Quantity / Measure (tons, lbs., yds., ea.)	Unit Price	Total
	5-70 000		
	5-7 26 000		
	A 44000	22 tons	
Sub Total			
Delivery			
N.J. Tax			
Total			



WJF 361
 responsible for damage done off public roads. Order not guaranteed.
Have gravel with gravel since 1985



1453 W. Park Ave., Wayside
Asbury Park, N.J. 07712
808-493-3333

18718

Order Date May 12 1985

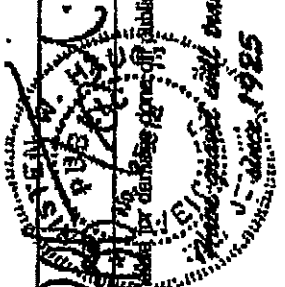
Deliver Date _____

Delivered C.O.D.

FOB/P.U. Charge

Buy A
CLCN FILL

(s)	Quantity / Measure (tons, lbs., yds., ea.)	Unit Price
G	70 000	
T	2 6000	22 tons
N	47 000	
Sub Total		
Delivery		
N.J. Tax		
Total		



Not for drainage (open-off) public roads. Color not guaranteed

Produce with care
JUNE 1985



CUSTOMER'S COPY

CONTROL NO.
A-924130

Stavola Construction Materials, Inc.

PLANT: CHIMNEY ROCK ROAD, BOUND BROOK, N.J. • 808/356-6700

Bldg 1108
14.5 tons

Bldg 702
4.8 tons

Bldg 707
4.8 tons

RECEIVED / ACCEPTED BY

X D Bowen
CUSTOMER'S SIGNATURE

**CRUSHED STONE • SAND
• GRAVEL**

ADDRESS REPLY TO
P.O. BOX 482
RED BANK, N.J. 07701

OFFICE
ROAD
S, N.J.
328

WE WILL NOT BE RESPONSIBLE FOR DAMAGE CAUSED BY DELIVERING MATERIALS TO ROADS.

EXPLANATION OF DELIVERY CODES

- 1 - F.O.B.
- 2 - DELIVERED
- 3 - NET DELIVERED

4.	CUST. NO. 08888	JOB NO. 13:34	TICKET NO. 924130
DELIVER TO ZONE: FT MONMOUTH BLDG 296		GROSS 37.94	TARE 13.85
UP THE ENVIRONMENT AVE. 237 ARK NJ 07432		NET 24.09	
TRUCK NO. 2	DRIVER NO.	METHOD OF PAYMENT CHARGE	DELIVERY CODE . 2
PRODUCT CODE/DESCRIPTION 3/4 GPS-DGA		UNIT OF MEASURE T	ZONE 030
		UNIT PRICE	EXTENDED
		FREIGHT 4.35	SALES TAX
		TOTAL	
LOADS 1		ACCU. TONS 24.09	WAIT TIME
		GRAND TOTAL	



CONTROL NO.
A-929214

Stavola Construction Materials, Inc.

PLANT: CHIMNEY ROCK ROAD, BOUND BROOK, N.J. • 908/356-5700

Bldg 707

RECEIVED & ACCEPTED BY

X [Signature]
CUSTOMER'S SIGNATURE

**CRUSHED STONE • SAND
• GRAVEL**

ADDRESS REPLY TO:

P.O. BOX 482
RED BANK, N.J. 07061

EXPLANATION OF DELIVERY CODES

- 1 - F.O.B. 4.8 tons
- 2 - DELIVERED
- 3 - NET DELIVERED

OFFICE
ON ROAD
FALLS, N.J.
12-2328

COMPANY WILL NOT BE RESPONSIBLE FOR DAMAGE CAUSED BY DELIVERING MATERIALS ON UNIMPROVED ROADS.

8/94	CUST. NO. 08888	JOB NO. 10123	TICKET NO. 929214				
DELIVER TO ZONE #1 MONMOUTH BEHIND BLDG 296			GROSS	36.77			
PICK UP THE ENVIRONMENT WIN AVE. K 237 PARK NJ 07432			TARE	13.00			
TRUCK NO. 5 DRIVER NO.			NET	23.77			
METHOD OF PAYMENT CHARGE			DELIVERY CODE	ZONE			
			2	030			
PRODUCT CODE/DESCRIPTION 13 3/4 INCH CLEAN 8		UNIT OF MEASURE T	UNIT PRICE	EXTENDED	FREIGHT	SALES TAX	TOTAL
					4.35		
LOADS 4			ACCU. TONS 96.57	WAIT TIME			
			GRAND TOTAL				

APPENDIX D

MONITORING WELL PERMITS AND CONSTRUCTION LOGS

SERIAL # 41180

DWR-133M (10/93)

STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY TRENTON, NJ

2931780 2931781

NJDEPE Bureau Water Allocation 126 on, NJ 08625

MONITORING WELL PERMIT

Permit No. 707 MW-1

VALID ONLY AFTER APPROVAL BY THE D.E.P.

COORD 29 13656

Owner US Army - Fort Monmouth Address SELF M - PW - EV Fort Monmouth, New Jersey 07703 Name of Facility T 707 Address Main Post Fort Monmouth New Jersey

Driller Tyree Organization, Ltd Address 1350 US Hwy 130 Burlington NJ 08016

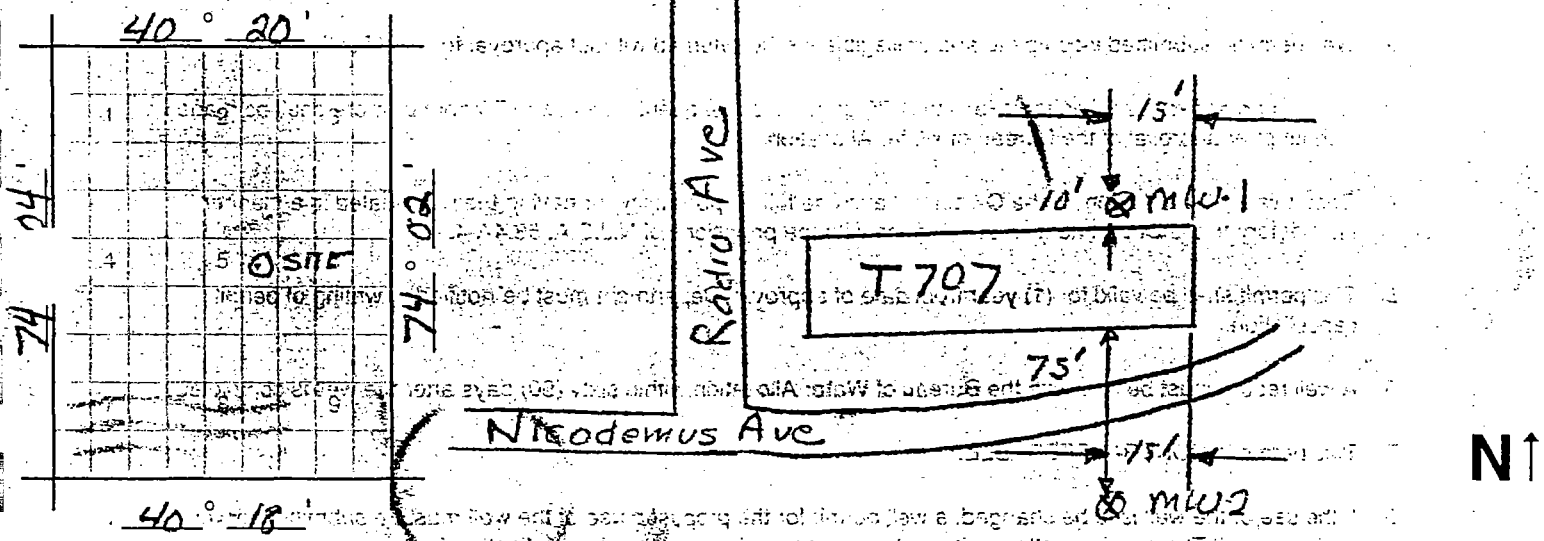
Table with 4 columns: Diameter of Well(s), Proposed Depth of Well(s), # of Wells Applied for, Type of Well, Will pumping equipment be installed?, If Yes, give pump capacity.

LOCATION OF WELL(S)

Table with 4 columns: Lot #, Block #, Municipality, County. Municipality: Fort Monmouth, County: Monmouth

Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.

State Atlas Map No. 29



- FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED: [] Spill Site, [] ISRA Site, [] CERCLA (Superfund) Site, [] RCRA Site, [X] Underground Storage Tank Site, [] Operational Ground Water Permit Site, [] Pretreatment and Residuals Site, [] Water and Hazardous Waste Enforcement Case, [] Water Supply Aquifer Test Observation Well, [] Other (explain)

CASE I.D. Number

94-5-13-0932-29 (Site Bldg. 707)

This Space for Approval Stamp. WELL PERMIT APPROVED N.J.D.E.P. AUG 3 1994 BUREAU OF WATER ALLOCATION

FOR D.E.P. [] Issuance of this permit is subject to the conditions attached. (see next page) [] For monitoring purposes only [] The well(s) may not be completed with more than 25 feet of total screen or uncased borehole.

In compliance with N.J.S.A. 58:4A-14, application is made for a permit to drill a well as described above.

Date 7-25-94 Signature of Driller [Signature] License # 1421 Signature of Owner [Signature] SELF M - PW - EV

MONITORING WELL CERTIFICATION-FORM B-10-1000 CERTIFICATION

Name of Permittee: U.S. ARMY
Name of Facility: FORT MONMOUTH
Location: MONMOUTH COUNTY, NJ
NIPDES Number: 74-5-13-0932-29
Discharge

LAND SURVEYOR'S CERTIFICATION

Well Permit Number:
This number must be permanently affixed to the well casing.

29-31780-

Longitude (to nearest second):

West 74°02'45.19"

Latitude (to nearest second):

North 40°18'36.65"

Elevation of Top of Inner Casing (cap off) (one-hundredth of a foot):

18.11

Elevation of ground level (1/100th ft.)

14.94

Source of elevation datum (benchmark, nail, etc.) and year. (If an alternate datum has been approved by the Department, identify here, assume datum of 100', and give approximated actual elevation.)

Source: FM-113

1927 1983

Elev.: _____

Owners Well Number (As shown on application or plans):

BLDG. 707 MW-1

Elevations are to be determined by double run, three wire leveling methods using balanced sights, commencing from a well marked and described point. This beginning point shall either be derived from Federal or State benchmarks if not more than 1000 feet from the site or from an alternate datum approved by the Department. Tolerances should meet third order standards, which are 0.05 ft x (mile)^{1/2}. For sections less than 0.1 mile, let miles = 0.1.

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Wayne W. Burgett
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

WAYNE W BURGETT
PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

31654
PROFESSIONAL LAND SURVEYOR'S LICENSE #

MONITORING WELLS CERTIFICATION-FORM B-LOCAL CERTIFICATION

Name of Permittee: U.S. ARMY
Name of Facility: FORT MONMOUTH
Location: MONMOUTH COUNTY, NJ
NJPDOS Number: 94-5-13-0932-29
Discharge

LAND SURVEYOR'S CERTIFICATION

Well Permit Number:
This number must be permanently affixed to the well casing.

29-31781

Longitude (to nearest second):

West 74° 02' 44.45"

Latitude (to nearest second):

North 40° 18' 35.38"

Elevation of Top of Inner Casing (cap off)
(one-hundredth of a foot):

14.82

Elevation of ground level (1/100th ft.)

12.32

Source of elevation datum (benchmark, nail, c.c.) and year. (If an alternate datum has been approved by the Department, identify here, assume datum of 100', and give approximated actual elevation.)

Source: FM-113

1927 1983

Elev.: _____

Owners Well Number (As shown on application or plans):

BLDG. 707 MW-2

Elevations are to be determined by double run, three wire leveling methods using balanced sights, commencing from a well marked and described point. This beginning point shall either be derived from Federal or State benchmarks if not more than 1000 feet from the site or from an alternate datum approved by the Department. Tolerances should meet third order standards, which are 0.05 ft x (mile)^{1/2}. For sections less than 0.1 mile, let miles = 0.1.

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Wayne W. Burgett

PROFESSIONAL LAND SURVEYOR'S SIGNATURE

WAYNE W. BURGETT
PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

31654
PROFESSIONAL LAND SURVEYOR'S LICENSE #



U.S. ARMY
FORT MONMOUTH
SEI.FM PW EV

LOG OF BORING 707-mw1

(Page 1 of 1)

Produced for Charles Appleby

Project Name : BLDG. 707
NJDEP Case # : 94-5-13-0932-29
Logged By : TYREE INC.
Start Date : 9/13/94

Completion Date : 9/13/94
Northing : N 538538.536
Easting : E 2173131.075
Driller : M. Beck

Depth in Feet	29-31780 ELEV: 18.11	DESCRIPTION	GRAPHIC	USCS	Samples	Blows/Ft	Well Construction Information
0		Grassy area/topsoil					Well Construction Date Completed : 7/15/94 Hole Diameter : 8 in Drill Method : HSA Company Rep : M. Beck Well Casing Material : PVC Diameter : 4 in Joints : Threaded Well Screen Material : PVC Diameter : 4 in Joints : Threaded Opening : 20 Slot Sand Pack : # 2 Morie Sand Annulus Seal : Bentonite/Portland Tremmie Well Screen Material : PVC Diameter : 4 in
.6		Medium brown fine sand		SW			
1.5		Light brown, silty sands		SM			
2.5		Light brown, fine sands, with black fines		SW			
4		Medium brown silts and clay lenses		CL			
6		Medium brown silty sands, very hard clay lenses		CL			
8							NOTES Well #1 is 707 MW1
9.94							
10							
12.5							

MONITORING WELL RECORD

Well Permit No. 20-31725
Atlas Sheet Coordinates 20 11 20 20 11 20 20 11 20

OWNER IDENTIFICATION - Owner US ARMY FORT MONMOUTH
Address SELBY HWY
City FORT MONMOUTH State NJ Zip Code _____

WELL LOCATION - If not the same as owner please give address. Owner's Well No. Bldg 707 MW-1
County MONMOUTH Municipality CREAMHTPT FORT Lot No. _____ Block No. _____
Address _____

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 9/13/94
Regulatory Program Requiring Well UST Case I.D. # 94-5-13-0932-29
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) _____ Tele. # _____

WELL CONSTRUCTION

Total depth drilled 12 1/2 ft.
Well finished to 12 1/2 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: above grade
 flush mounted

If finished above grade, casing height (stick up) above land surface 2 ft.

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	2 1/2'	4	PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2 1/2'	12 1/2'	4	20 slot PVC
Tail Piece				
Gravel Pack	1 1/2'	12 1/2'		#2 Marine sand
Annular Seal/Grout	6"	1 1/2'		Bentons Portland
Method of Grouting	Tremie			

Was steel protective casing installed? Yes No

Static water level after drilling 9' 11" ft.
Water level was measured using type
Well was developed for 1 hours at 10 gpm
Method of development pump

Was permanent pumping equipment installed? Yes No
Pump capacity _____ gpm
Pump type: _____

Drilling Method Auger
Drilling Fluid _____ Type of Rig B80
Name of Driller Michael E Beck
Health and Safety Plan submitted? Yes No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 1421
Name of Drilling Company _____

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-6" Grassy area, top soil
6"-1 1/2' Medium brown, fine sand
1 1/2'-3' Light brown, silty sands
3'-4' Light brown, fine sands w/ black fines.
4'-5' Medium brown silts + clay lenses
5'-6' Med. brown silts + very hard clay lenses.
6'-12 1/2' Blue gray soft clay

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable state rules and regulations.

Driller's Signature Michael E Beck Date 10-10-94



U.S. ARMY
FORT MONMOUTH
SEL.FM PW EV

LOG OF BORING 707-mw2

(Page 1 of 1)

Produced for Charles Appleby

Project Name : BLDG. 707
NJDEP Case # : 94-5-13-0932-29
Logged By : TYREE INC.
Start Date : 9/13/94

Completion Date : 9/13/94
Northing : N 538410.423
Easting : E 2173189.304
Driller : M. Beck

Depth in Feet	29-31781 ELEV: 14.82	DESCRIPTION	GRAPHIC	USCS	Samples	Blows/Ft	Well Construction Information
0		Grassy area/topsoil					Well Construction Date Completed : 9/13/94 Hole Diameter : 8 in Drill Method : HSA Company Rep : R. Barnes Well Casing Material : PVC Diameter : 4 in Joints : Threaded Well Screen Material : PVC Diameter : 4 in Joints : Threaded Opening : 20 Slot Sand Pack : # 2 Morie Sand Annulus Seal : Bentonite/Portland : Tremmie Well Screen Material : PVC Diameter : 4 in
.6		Light brown, fine sand w/fines		SW			
1							
2		Dark brown, silts and fine sands		SM			
2.5							
4		Olive gray fine sand		SW			
6							
6		Olive gray soft clay		CL			
8							
10							
12							
12.5							
14							

9/94

NOTES
Well #1 is 707 mw2

2-28-1996 C:\707\GEO\707_mw2.ge3

MONITORING WELL RECORD

Well Permit No. 20- 31781
Atlas Sheet Coordinates 29; 13; 656

OWNER IDENTIFICATION - Owner US ARMY FORT MONMOUTH
Address SKELM-FW-RV
City FORT MONMOUTH State NJ Zip Code _____

WELL LOCATION - If not the same as owner please give address. Owner's Well No. Bldg. 707 MW-2
County MONMOUTH Municipality OCEANPORT BORO Lot No. _____ Block No. _____
Address _____

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 9, 13, 94
Regulatory Program Requiring Well UCT Case I.D. # 04 5 17 0032 29
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) _____ Tele. # _____

WELL CONSTRUCTION

Total depth drilled 12 1/2 ft.
Well finished to 12 1/2 ft.

Borehole diameter:
Top 8 in.
Bottom 8 in.

Well was finished: above grade
 flush mounted

If finished above grade, casing height (stick up) above land surface 2 ft.

Was steel protective casing installed? Yes No

Static water level after drilling 6' 10" ft.
Water level was measured using 1" pc
Well was developed for 1 hours at 10 gpm
Method of development pump

Was permanent pumping equipment installed? Yes No
Pump capacity _____ gpm

Pump type: _____
Drilling Method Auger
Drilling Fluid _____ Type of Rig B 80
Name of Driller Michael E. Beck

Health and Safety Plan submitted? Yes No
Level of Protection used on site (circle one) (None) D C B A
N.J. License No. 1421
Name of Drilling Company _____

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0	2 1/2'	4	PVC
Outer Casing (Not Protective Casing)				
Screen (Note slot size)	2 1/2'	12 1/2'	4	20 slot PVC
Tail Piece				
Gravel Pack	1'	12 1/2'		#2 Maric sand
Annular Seal/Grout	6'	1'		Bentonite Pktd. d
Method of Grouting	Tremie			

GEOLOGIC LOG

(Copies of other geologic logs and/or geophysical logs should be attached.)

0-6" Grassy area, top soil
6"-2' Lite brown, fine sand w/ fines
2'-3' D. & brown, silts + fine sands
3'-7' Olive gray fine sand
7'-12 1/2' Olive gray soft clay

STATE ENVIRONMENTAL TECHNOLOGIST

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable state rules and regulations.

Driller's Signature Michael Beck Date 10-10-94

APPENDIX E

SOIL ANALYTICAL DATA PACKAGE

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

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

Lab. ID #: 1492.1-.8
 Sample Rec'd: 05/13/94
 Analysis Start: 05/16/94
 Analysis Comp: 05/16/94

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

NJDEPE UST Reg.#: 0081533-226
 Closure #:
 DICAR #:
 Location #: Bldg. 707

Lab ID.	Description	%Solid	Result (mg/Kg)	MDL
1492.1	Site A, E-W Sidewall 7' OVA= 10	79	5620.	69.
1492.2	Site B, E-S Sidewall 7' OVA= 30	86	9740.	69.
1492.3	Site C, S-E Sidewall 7' OVA= 30	85	50.5	6.6
1492.4	Site D, S-W Sidewall 7' OVA= 40	79	5300.	69.
1492.5	Site E, W-S Sidewall 7' OVA= 30	80	4680.	46.
1492.6	Site F, W-N Sidewall 7' OVA= 10	67	24.4	6.6
1492.7	Site G, N-W Sidewall 7' OVA= 40	82	4260.	69.
1492.8	Site H, N-E Sidewall 7' OVA= 10	86	13900.	69.
M. Bl.	Method Blank	100	ND	3.3

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

* = Silica Gel Added, NA = Not Applicable

1492.6dup= 68% 1492.6spike= 100% 1492.6spike dup= 105% RPD= 5.2%

Brian K. McKee

Brian K. McKee
 Laboratory Director

P.O. #: PWS-007

Chain of Custody

Project #: <u>None</u>	Sampler: <u>C. Appleby / Cote Inc.</u>	Date / Time: <u>5/13/94 1840</u>	Analysis Parameters	Start:
Customer: <u>C. Appleby DPW</u>	Site Name: <u>Bldg. 707 (Demo)</u> <u>Unit # 00 81533 - 226</u> <u>Close - None - Previously unknown</u>			Finish:

Phone: X 26224

Preservation Method

Lab Sample ID Number	Date/Time		Customer Sample Location/ID Number	Sample Matrix	# of Bottles	Analysis Parameters					Remarks	
						TPHC	% Solids	Moisture				Other
1492.1	5/13/94	1521	Site A E-N Sidewalk 7'	Soil	1	X	X	X			10	Samples kept 2400
2		1522	Site B E-S Sidewalk 7'	↓	1	X	X	X			30	
3		1535	Site C S-E Sidewalk 7'		1	X	X	X			30	
4		1537	Site D S-W Sidewalk 7'		1	X	X	X			40	24hr T/A
5		1530	Site E W-S Sidewalk 7'		1	X	X	X			30	
6		1526	Site F W-N Sidewalk 7'		1	X	X	X			10	
7		1517	Site G W-W Sidewalk 7'		1	X	X	X			40	own-128 cc SW AS 21224
8		1515	Site H N-E Sidewalk 7'		1	X	X	X			10	Calibrated w/ Zero Air ± 95 rpm methane at 60s. Select 300 and read 100 PPM of CA. 5-13-94 - 1430 hrs

Relinquished By (signature)	Date / Time	Received By (signature)	Shipped By:
<i>[Signature]</i>	5/13/94 1600	<i>[Signature]</i>	
Relinquished By (signature)	Date / Time	Received for Lab by (signature):	Date / Time
<i>[Signature]</i>	5/13/94 1600	<i>[Signature]</i>	5-13-94 1600

Note: A drawing depicting sample location should be attached or drawn on the reverse side of this chain of custody.
not attached

May 16, 1994 1218

Sarah J. Hubbard

BLANK 0 MV

40.75 105 MV

81.5 207 MV

163 409 MV

1492.1 161 MV (dil 7)

1492.2 302 MV (dil 7)

1492.3 18 MV

1492.4 152 MV (dil 7)

1492.5 203 (dil 7)

1492.6 8 MV

1492.6 6 MV Dupl.

1492.6 83 MV Spike

1492.6 87 MV Dup Spike

1492.7 127 MV (dil 7)

1492.8 275 MV (dil 11)

135-0970-00

PRINTED IN U.S.

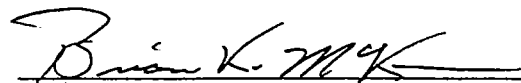
PHC Conformance/Non-conformance Summary Report

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

Comments: _____

Laboratory Authentication Statement

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



Brian K. McKee
Laboratory Manager

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

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


Lab. ID #: 1502.1-.9
 Sample Rec'd: 05/23/94
 Analysis Start: 05/24/94
 Analysis Comp: 05/24/94

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

NJDEPE UST Reg.#: 0081533-226
 Closure #:
 DICAR #:
 Location #: Bldg. 707

Lab ID.	Description	%Solid	Result (mg/Kg)	MDL
1502.1	Site H, Sidewall 3.5-4'OVA= ND	88	7.79	6.6
1502.2	Site I, Sidewall 3.5-4'OVA= 7.0	92	ND	6.6
1502.3	Site J, Sidewall 3.5-4'OVA= 300.	85	ND	6.6
1502.4	Site K, Sidewall 3.5-4'OVA= 2.0	75	ND	6.6
1502.5	Site L, Sidewall 3.5-4'OVA= ND	81	ND	6.6
1502.6	Site M, Sidewall 3.5-4'OVA= ND	87	ND	6.6
1502.7	Site N, Sidewall 3.5-4'OVA= 0.5	86	ND	6.6
1502.8	Site O, Sidewall 3.5-4'OVA= ND	85	11.1	6.6
1502.9	Site P, 1' over Site J, OVA= ND	88	ND	6.6
M. Bl.	Method Blank	100	ND	3.3

Notes: ND = Not Detected, MDL = Method Detection Limit
 * = Silica Gel Added, NA = Not Applicable
 1502.9 dup= 100% 1502.9 s= 88% 1502.9 sd= 85% RPD= 3.5%


 Brian K. McKee
 Laboratory Director

P.O. #: PWS-007

Chain of Custody

Project #: <u>NA</u>	Sampler: <u>C. Appleby / Cust</u>	Date / Time: <u>5-23-94 1315</u>	Analysis Parameters	Start:
Customer: <u>C. Appleby</u> <u>SECFM PW EV</u>	Site Name: <u>Bldg. 707</u> <u>ust# 81533-226</u>			Finish:
Phone: <u>X 26224</u>				Preservation Method

Lab Sample ID Number	Date/Time	Customer Sample Location/ID Number	Sample Matrix	# of Bottles	TPHC	Mnsl	% Solio			DVA Rad	Remarks
	5-23-94 1416	Site H - Signwall 3.5-4'	Soil	1	X	X	X			ND	Sample kept 24°C
	1411	Site I "	↓	1	X	X	X			7	
	1405	Site J "		1	X	X	X			300	
	1401	Site K "		1	X	X	X			2	
	1356	Site L "		1	X	X	X			ND	
	1353	Site M "		1	X	X	X			ND	
	1350	Site N "		1	X	X	X			.5	ova-1286C - SN A57114
	1346	Site O "		1	X	X	X			ND	Calibrated w/ 7cc Air + 95 PPM
	1406	Site P 1' Above Site J		1	X	X	X			ND	methane - Read 77 PPM - OK
											1st Appg. 5-23-94 915 AM

Relinquished By (signature)	Date / Time	Received By (signature)	Shipped By:
<i>[Signature]</i>	5-23-94 1505 1505	<i>Sarah J. Hubbard</i>	
Relinquished By (signature)	Date / Time	Received for Lab by (signature):	Date / Time
<i>[Signature]</i>	5-23-94 1505 1505	<i>Sarah J. Hubbard</i>	5/23/94 1505

Note: A drawing depicting sample location should be attached or drawn on the reverse side of this chain of custody.

Attached

May 27, 1994 / 1135
Sarah Hubbard

Blank 0 MV

40.75 104 MV

81.5 212 MV

163 414 MV

1502.1 4 MV

1502.2 0 MV ND

1502.3 2 MV

1502.4 2 MV

1502.5 3 MV

1502.6 0 MV

1502.7 0 MV

1502.8 5 MV

1502.9 0 MV ND

1502.9 0 MV ND

1502.9 31 MV Spike

1502.9 30 MV Spike Dup.

PHC Conformance/Non-conformance Summary Report

No Yes

1. Blank Contamination - If yes, list the sample and the corresponding concentrations in each blank

2. Matrix Spike/Matrix Sp Dup. Recoveries Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range)

3. IR Spectra submitted for standards, blanks, & samples

4. Chromatograms submitted for standards, blanks, and samples if GC fingerprinting was conducted.

5. Extraction holding time met. (If not met, list number of days exceeded for each sample)

6. Analysis holding time met. (If not met, list number of days exceeded for each sample)

Comments:

Laboratory Authentication Statement

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

Project #1502


Brian K. McKee
Laboratory Manager

APPENDIX F

GROUNDWATER ANALYTICAL DATA PACKAGE

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS

PHONE: (908)532-6224 FAX: (908)532-3484

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



ANALYTICAL DATA REPORT FOR

Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA Long Term Monitoring

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 745, 707, 750

LABORATORY ID #	MONITOR WELL #	NJDEP WELL ID #	SAMPLE DATE
2442.03	B.745/MW-1	2931782	04/09/97
2443.01	B.707/MW-1	2931780	04/09/97
2443.02	B.707/MW-2	2931781	04/09/97
2445.03	B.750/MW-3	2928994	04/10/97
2445.04	B.750/MW-4	2928995	04/10/97
2445.05	B.750/MW-2	2928993	04/10/97
2445.06	B.750/MW-1	2928992	04/10/97

NJDEP Laboratory Certification # 13461

Report Date: 15 October, 1997

Daniel Wright
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3111D
Antimony	3113B
Arsenic	3113B
Barium	3111D
Beryllium	3113B
Cadmium	3111B
Calcium	3111B
Chromium	3111D
Cobalt	3113B
Copper	3111B
Iron	3111B
Lead	3113B
Magnesium	3111B
Manganese	3111B
Mercury	3112B
Nickel	3111B
Potassium	3111B
Selenium	3113B
Silver	3111B
Sodium	3111B
Thallium	3113B
Vanadium	3111D
Zinc	3111B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608



Fort Monmouth Environmental Testing Laboratory

Bldg. 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:		Project No:			Analysis Parameters							Comments:	
Phone #:		Location: Bldg 707											
<input checked="" type="checkbox"/> DERA <input type="checkbox"/> OMA <input type="checkbox"/> Other:		Samplers Name / Company: Roy Pognist / TUS			Sample #								
						624 + 15							
Lab Sample I.D.	Sample Location	Date	Time	Type	bottles						Remarks / Preservation Method		
2443 .01	Bldg 707 mu 1	4-9-97	1130	AQ							#24-31780		
↓ .02	Bldg 707 mu 2	↓	1420	↓							#24-31781		
↓ .03	Field Duplicate	↓	—	↓									
											All Samples kept at 4°C		
											624-HL		
											#2442 Ins Trip +		
											Field Blank For		
											The Sampling event.		
Relinquished by (signature):		Date/Time:	Received by (signature):		Relinquished by (signature):		Date/Time:	Received by (signature):		Relinquished by (signature):		Date/Time:	Received by (signature):
		4/9/97 1600											
Relinquished by (signature):		Date/Time:	Received by (signature):		Relinquished by (signature):		Date/Time:	Received by (signature):		Relinquished by (signature):		Date/Time:	Received by (signature):
Report Type: <input type="checkbox"/> Full, <input type="checkbox"/> Reduced, <input type="checkbox"/> Standard, <input type="checkbox"/> Screen / non-certified					Remarks:								
Turnaround time: <input type="checkbox"/> Standard 4 wks, <input type="checkbox"/> Rush ___ Days, <input type="checkbox"/> ASAP Verbal ___ Hrs.													

**U.S. ARMY FORT MOMOUTH
MONITORING WELL SAMPLING DATASHEET**

BLDG 707
MW# 1
NJDEP ID# 2931780
NJDEP CERT# 13461
SAMPLING CONTRATOR TVS
SAMPLER RAY POGWIST

DATE 4/9/97 WEATHER SUNNY WINDY 30'S

ELEVATION OF CASING SURVEY MARK

DTW 7.55

DEPTH OF WELL 14.66

HEIGHT OF WATER 7.11

7.11 X 0.65 X 3 = 13.86

GAL OF H2O TO BE EVACUATED 13.9 GAL

PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) PERISTALIC

PURGE RATE 0.3 GPM

Hnu 0 PPM

PURGE START TIME 10:10

pH 6.51 TEMP 50.2 DEG F

DISSOLVED O2 3.6 PPM SPECIFIC CONDUCTIVITY 208 us/cm

PURGE END TIME 11:25

pH 5.55 TEMP 51.2 DEG F

DISSOLVED O2 2.8 PPM SPECIFIC CONDUCTIVITY 210 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 7.91 FT

sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer

TOTAL VOLUME PURGED: 14.0 GAL

pH 5.50 TEMP 51.4 DEG F

DISSOLVED O2 2.8 PPM SPECIFIC CONDUCTIVITY 217 us/cm

COMMENTS: _____

**U.S. ARMY FORT MOMOUTH
MONITORING WELL SAMPLING DATASHEET**

BLDG 707
MW# 2
NJDEP ID# 2931781
NJDEP CERT# 13461
SAMPLING CONTRATOR TVS
SAMPLER RAY POGWIST

DATE 4/9/97 WEATHER SUNNY WINDY 30'S

ELEVATION OF CASING SURVEY MARK

DTW 5.50

DEPTH OF WELL 14.95

HEIGHT OF WATER 9.45

9.45 X 0.65 X 3 = 18.43

GAL OF H2O TO BE EVACUATED 18.43 GAL

PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) PERISTALIC

PURGE RATE 0.3 GPM

Hnu 0 PPM

PURGE START TIME 13:05

pH 5.81 TEMP 45.5 DEG F

DISSOLVED O2 3.2 PPM SPECIFIC CONDUCTIVITY 490 us/cm

PURGE END TIME 14:10

pH 6.03 TEMP 46.2 DEG F

DISSOLVED O2 2.7 PPM SPECIFIC CONDUCTIVITY 225 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 5.70 FT

sampling method : dedicated (law NJDEP FSPM 1992) teflon @ bailer

TOTAL VOLUME PURGED: 18.5 GAL

pH 6.01 TEMP 46.5 DEG F

DISSOLVED O2 2.6 PPM SPECIFIC CONDUCTIVITY 221 us/cm

COMMENTS: _____

Organic Data Qualifiers

Form 1:

This form reports concentrations of Tentatively Identified Compounds. Form 1E is the Volatile report, Form 1F is for Semi-Volatiles.

Qualifiers are:

- J Estimated Value
- N Presumptive evidence of a compound
- E Concentration exceeds calibration range
- D Diluted sample
- A TIC is a suspected aldol condensation product

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

Data File Name v00580.d
 Operator Paul Skelton
 Date Acquired 04/21/97 17:23

Sample Name 2442.01
 Field ID Trip Blank
 Sample Multiplier 1

CAS #	Name	R.T.	Response	Amount	MDL	GW Criteria
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride	13.48	45842	4.83 ug/L	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

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

Data File Name v00581.d
 Operator Paul Skelton
 Date Acquired 04/21/97 18:10

Sample Name 2442.02
 Field ID Field Blank
 Sample Multiplier 1

CAS #	Name	R.T.	Response	Amount	MDL	GW Criteria
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride	13.48	140304	16.70 ug/L	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,1,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

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

Data File Name v00583.d
 Operator Paul Skelton
 Date Acquired 04/21/97 19:45

Sample Name 2443.01
 Field ID Bldg 707 MW1
 Sample Multiplier 1

CAS #	Name	R.T.	Response	Amount	MDL	GW Criteria
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride	13.49	30783	3.66 ug/L	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform	18.37	81057	7.63 ug/L	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

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

Data File Name v00584.d
 Operator Paul Skelton
 Date Acquired 04/21/97 20:32

Sample Name 2443.02
 Field ID Bldg 707 MW2
 Sample Multiplier 1

CAS #	Name	R.T.	Response	Amount	MDL	GW Criteria
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride	13.49	31918	3.55 ug/L	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene	17.89	15535	1.32 ug/L	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

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

Data File Name **V00585.D**
 Operator **Paul Skelton**
 Date Acquired **04/21/97 21:20**

Sample Name **2443.03**
 Field ID **Field Duplicate**
 Sample Multiplier **1**

CAS #	Name	R.T.	Response	Amount	MDL	GW Criteria
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride	13.49	29610	3.43 ug/L	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene	17.90	15000	1.33 ug/L	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW1

Lab Name: FMETL Project _____
NJDEP # 13461 Case No.: 2443 Location B.707 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 2443.01
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V00583.D
Level: (low/med) LOW Date Received: 04/09/97
% Moisture: not dec. _____ Date Analyzed: 04/21/97
GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q
---------	----------	----	------------	---

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

MW2

Lab Name: FMETL Project _____
NJDEP # 13461 Case No.: 2443 Location B.707 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 2443.02
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V00584.D
Level: (low/med) LOW Date Received: 04/09/97
% Moisture: not dec. _____ Date Analyzed: 04/21/97
GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 2

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 001070-71-9	Propionitrile	5.14	5	JN
2. 000078-81-9	1-Propanamine, 2-methyl-	14.14	2	JN

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Field Dup

Lab Name: FMETL Project _____

NJDEP # 13461 Case No.: 2443 Location B.707 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 2443.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V00585.D

Level: (low/med) LOW Date Received: 04/09/97

% Moisture: not dec. _____ Date Analyzed: 04/21/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 2

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 001070-71-9	Propionitrile	5.14	6	JN
2. 000109-83-1	Ethanol, 2-(methylamino)-	13.93	2	JN



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Houston, TX 77002
(713) 886-1674

**ANALYTICAL DATA REPORT
FOR
U.S. ARMY, FORT MONMOUTH
SELFM-PW-EV
Building 173
Fort Monmouth, NJ 07703**

PROJECT : #94513093229

EMSL Project: # 95063935

Field Sample No. & Location	Laboratory Sample ID	Matrix	Date & Time of Collection	Date Received
1861.1, Trip Blank	95-26426	Aqueous	6/13/95 @ 0605	6/13/95
1861.2, Field Blank	95-26427	Aqueous	6/13/95 @ 1535	6/13/95
1863.1, MW1-2931780, Bldg. #707	95-26430	Aqueous	6/13/95 @ 1107	6/13/95
1863.2, MW2-2931781 Bldg. #707	95-26431	Aqueous	6/13/95 @ 1145	6/13/95
1863.3, Duplicate	95-26432	Aqueous	6/13/95 *	6/13/95

*** Note: Sample collection time was not provided on Chain of Custody.**

Laboratory Name

EMSL ANALYTICAL, INC.

Certification No.

NJDEP No. 04653

PADER No. 68-367

NY-ELAP No. 10896

Supervisor/Manager Signature

Printed Name

Paul V. Laraja

Date

07-17-95



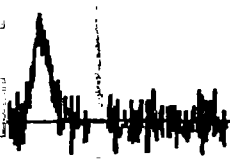
REPORT NARRATIVE

All initial runs for the Ft. Monmouth P.O. #IJO #95-0091/SAI were analyzed within hold. The samples were taken by EMSL between the dates of 5/18/95 thru 5/25/95.

There was a problem with the water used for the field and trip blanks. On certain days the field crew used DI water from the incorrect system resulting in low level contamination of Toluene, 2-Chlorotoluene and sometimes Chlorobenzene. However the resultant concentrations of these compounds were very low and the samples accompanying these field and trip blanks did not show these compounds to be present.

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1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORT MONMOUTH, NJ

SAMPLE NO.

9526427B

012

Lab Name: EMSL ANALYTICAL

US ARMY

FMETL# 18412

Site: _____

BLDG# 266

NJDEP# _____

Matrix: (soil/water) WATER

Lab Sample ID: 9526427B

Sample wt/vol: 1000.0 (g/mL ML)

Lab File ID: B8025.D

Level: (low/med) _____

Date Received: 6/13/95

% Moisture: _____ decanted: (Y/N): N

Date Extracted: 6/19/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 6/26/95

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
62-75-9	N-nitrosodimethylamine		2	U
111-44-4	bis(2-Chloroethyl)ether		1	U
541-73-1	1,3-Dichlorobenzene		2	U
106-46-7	1,4-Dichlorobenzene		1	U
95-50-1	1,2-Dichlorobenzene		2	U
108-60-1	bis(2-chloroisopropyl)ether		5	U
621-64-7	N-Nitroso-Di-n-propylamine		2	U
67-72-1	Hexachloroethane		1	U
98-95-3	Nitrobenzene		2	U
78-59-1	Isophorone		1	U
111-91-1	bis(2-Chloroethoxy)methane		3	U
120-82-1	1,2,4-Trichlorobenzene		2	U
91-20-3	Naphthalene		2	U
87-68-3	Hexachlorobutadiene		2	U
77-47-4	Hexachlorocyclopentadiene		12	U
91-58-7	2-Chloronaphthalene		1	U
131-11-3	Dimethylphthalate		1	U
208-96-8	Acenaphthylene		5	U
606-20-2	2,6-Dinitrotoluene		2	U
83-32-9	Acenaphthene		3	U
121-14-2	2,4-Dinitrotoluene		3	U
84-66-2	Diethylphthalate		1	U
86-73-7	Fluorene		3	U
7005-72-3	4-Chlorophenyl-phenylether		3	U
86-30-6	n-Nitrosodiphenylamine		6	U
122-66-7	1,2-Diphenylhydrazine(as azo)		6	U
101-55-3	4-Bromophenyl-phenylether		2	U
118-74-1	Hexachlorobenzene		2	U
85-01-08	Phenanthrene		2	U
120-12-7	Anthracene		2	U
84-74-2	Di-n-butylphthalate		5	U
206-44-0	Fluoranthene		1	U
92-87-5	Benzidine		1	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

9526427B

014

Lab Name: EMSL ANALYTICAL US ARMY

FMETL# 1861.2 Site: _____ BLDG# 200 NJDEP# _____

Matrix: (soil/water) WATER Lab Sample ID: 9526427B

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: B8025.D

Level: (low/med) _____ Date Received: 6/13/95

% Moisture: _____ decanted: (Y/N) N Date Extracted: 6/19/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/26/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Concentration Units:

Number TICs found: 0 (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc	Q
1.	NONE FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

EMSL

Attention: Charles Appleby
U.S. Army - Fort Monmouth
SELFM-PW-EV
Building 173
Fort Monmouth, NJ 07703

Project #: 95063935
Date Received: 06/13/95 18:50

The following results are for BN by 625 with Library Search

Lab #	Conc.	Unit	Client Designation
95 0026430	; see attached	ug/l	Bldg.707,MW1-2931780
95 0026431	; see attached	ug/l	Bldg.707,MW2-2931781
95 0026432	; see attached	ug/l	Bldg.707,Duplicate

The following results are for Volatiles by 524.2 w/ Library Search

Lab #	Conc.	Unit	Client Designation
95 0026430	; see attached	ug/l	Bldg.707,MW1-2931780
95 0026431	; see attached	ug/l	Bldg.707,MW2-2931781
95 0026432	; see attached	ug/l	Bldg.707,Duplicate

T. Monmouth NJ

FMETL# 18231

016

U.S. Army

Bldg# 707

1A

MSDP MW-1 2931780 VOLATILE ORGANIC ANALYSIS DATA SHEET

EPA 524.2

Lab Name: EMSL ANALYTICAL
Matrix (soil/water): WATER
Sample wt/vol: 25 mL
Level (low/med): LOW
% Moisture: not dec.: NA
GC Column: DB-624 x 75m ID: 0.53mm
Soil Extract Volume: NA

Lab Sample ID: 9526430
Lab File ID: C8627.D
Date Received: 06/13/95
Date Analyzed: 06/21/95
Dilution Factor: 1
Soil Aliquot Volume: NA

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L COMMENT

Table with 4 columns: CAS NO., COMPOUND, (ug/L or ug/Kg) ug/L, and COMMENT. It lists various chemical compounds such as Dichlorodifluoromethane, Chloromethane, Bromomethane, Vinyl Chloride, Chloroethane, Trichlorofluoromethane, Methylene Chloride, trans-1,2-Dichloroethene, 1,1-Dichloroethene, 1,1-Dichloroethane, 2,2-Dichloropropane, Bromochloromethane, cis-1,2-Dichloroethene, Chloroform, 1,1-Dichloropropene, 1,2-Dichloroethane, 1,1,1-Trichloroethane, Dibromomethane, Carbon Tetrachloride, Bromodichloromethane, 1,2-Dichloropropane, cis-1,3-Dichloropropane, 1,3-Dichloropropane, Trichloroethene, Dibromochloromethane, 1,1,2-Trichloroethane, Benzene, trans-1,3-Dichloropropane, Bromoform, 1,1,1,2-Tetrachloroethane, Tetrachloroethene, 1,1,2,2-Tetrachloroethane, Toluene, 1,2-Dibromoethane, Chlorobenzene, Ethylbenzene, and Xylene (total). Concentration values are mostly .50, with Methylene Chloride at 2.3. Comments are mostly 'U' (Not Detected) or 'B'.

= Not Detected

J. Monmouth NJ FMETC # 1863.1

U.S. Army

Bldg # 707

017

NTREP MW-1
2931780

1A

VOLATILE ORGANIC ANALYSIS DATA SHEET
EPA 524.2

Lab Name: EMSL ANALYTICAL
Matrix (soil/water): WATER
Sample wt/vol: 25 mL
Level (low/med): LOW
% Moisture: not dec.: NA
GC Column: DB-624 x 75m ID: 0.53mm
Soil Extract Volume: NA

Lab Sample ID: 9526430
Lab File ID: C8627.D
Date Received: 06/13/95
Date Analyzed: 06/21/95
Dilution Factor: 1
Soil Aliquot Volume: NA

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L COMMENT

100-42-1	Styrene	.50	U
98-82-8	Isopropylbenzene	.50	U
108-86-1	Bromobenzene	.50	U
96-18-4	1,2,3-Trichloropropane	.50	U
103-65-1	n-Propylbenzene	.50	U
95-49-8	2-Chlorotoluene	.50	U
106-43-4	4-Chlorotoluene	.50	U
108-67-8	1,3,5-Trimethylbenzene	.50	U
98-06-6	tert-Butylbenzene	.50	U
95-63-6	1,2,4-Trimethylbenzene	.50	U
135-98-8	sec-Butylbenzene	.50	U
541-73-1	1,3-Dichlorobenzene	.50	U
106-46-7	1,4-Dichlorobenzene	.50	U
99-87-6	4-Isopropyltoluene	.50	U
95-50-1	1,2-Dichlorobenzene	.50	U
104-51-8	n-Butylbenzene	.50	U
96-12-8	1,2-Dibromo-3-chloropropane	.50	U
120-82-1	1,2,4-Trichlorobenzene	.50	U
87-68-3	Hexachlorobutadiene	.50	U
91-20-3	Naphthalene	.50	U
87-61-6	1,2,3-Trichlorobenzene	.50	U

COMMENT
U= Not Detected

1. MONMOUTH NJ FINEITE 18631
S. Army
Bldg# 707 NJDEP PW-1
2931750

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
9526430V 018

Lab Name: EMSL ANALYTICAL Contract: _____
Project No. _____ Site: _____ Location: _____ Group: _____
Matrix: (soil/water) WATER Lab Sample ID: 9526430V
Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C8627.D
Level: (low/med) LOW Date Received: 6/13/95
% Moisture: not dec. NA Date Analyzed: 6/21/95
GC Column: DB-624 X 75M ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1.	NONE FOUND			
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1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

FORT MONMOUTH, NJ
US ARMY

9526430B

019

Lab Name: EMSL ANALYTICAL

FMETL# 19631

Site: _____

BLDG# 707

NJDEP# M41-2931750

Matrix: (soil/water) WATER

Lab Sample ID: 9526430B

Sample wt/vol: 1000.0 (g/mL ML)

Lab File ID: B8028.D

Level: (low/med) _____

Date Received: 6/13/95

% Moisture: _____ decanted: (Y/N): N

Date Extracted: 6/19/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 6/26/95

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Concentration Units:

CAS No.	Compound	Concentration Units:		Q
		(ug/L or ug/Kg)	ug/L	
62-75-9	N-nitrosodimethylamine		2	U
111-44-4	bis(2-Chloroethyl)ether		1	U
541-73-1	1,3-Dichlorobenzene		2	U
106-46-7	1,4-Dichlorobenzene		1	U
95-50-1	1,2-Dichlorobenzene		2	U
108-60-1	bis(2-chloroisopropyl)ether		5	U
621-64-7	N-Nitroso-Di-n-propylamine		2	U
67-72-1	Hexachloroethane		1	U
98-95-3	Nitrobenzene		2	U
78-59-1	Isophorone		1	U
111-91-1	bis(2-Chloroethoxy)methane		3	U
120-82-1	1,2,4-Trichlorobenzene		2	U
91-20-3	Naphthalene		2	U
87-68-3	Hexachlorobutadiene		2	U
77-47-4	Hexachlorocyclopentadiene		12	U
91-58-7	2-Chloronaphthalene		1	U
131-11-3	Dimethylphthalate		1	U
208-96-8	Acenaphthylene		5	U
606-20-2	2,6-Dinitrotoluene		2	U
83-32-9	Acenaphthene		3	U
121-14-2	2,4-Dinitrotoluene		3	U
84-66-2	Diethylphthalate		1	U
86-73-7	Fluorene		3	U
7005-72-3	4-Chlorophenyl-phenylether		3	U
86-30-6	n-Nitrosodiphenylamine		6	U
122-66-7	1,2-Diphenylhydrazine(as azo)		6	U
101-55-3	4-Bromophenyl-phenylether		2	U
118-74-1	Hexachlorobenzene		2	U
85-01-08	Phenanthrene		2	U
120-12-7	Anthracene		2	U
84-74-2	Di-n-butylphthalate		5	U
206-44-0	Fluoranthene		1	U
92-87-5	Benzidine		1	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

9526430B

Lab Name: EMSL ANALYTICAL US ARMY

FMETL# 1863.1 Site: _____ BLDG# _____ NJDEP# MW1-2931780

Matrix: (soil/water) WATER Lab Sample ID: 9526430B

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: B8028.D

Level: (low/med) _____ Date Received: 6/13/95

% Moisture: _____ decanted: (Y/N) N Date Extracted: 6/19/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/26/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Concentration Units:

Number TICs found: 0 (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc	Q
1.	NONE FOUND			
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S. Army
Bldg # 707

FYR FL# 1863.2

022

DEP MW-2
2931781

1A
VOLATILE ORGANIC ANALYSIS DATA SHEET
EPA 524.2

Lab Name: EMSL ANALYTICAL
Matrix (soil/water): WATER
Sample wt/vol: 25 mL
Level (low/med): LOW
% Moisture: not dec.: NA
GC Column: DB-624 x 75m ID: 0.53mm
Soil Extract Volume: NA

Lab Sample ID: 9526431
Lab File ID: C8628.D
Date Received: 06/13/95
Date Analyzed: 06/21/95
Dilution Factor: 1
Soil Aliquot Volume: NA

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L COMMENT

75-71-8	Dichlorodifluoromethane	.50	U
74-87-3	Chloromethane	.50	U
74-83-9	Bromomethane	.50	U
75-01-4	Vinyl Chloride	.50	U
75-00-3	Chloroethane	.50	U
75-69-4	Trichlorofluoromethane	.50	U
75-09-2	Methylene Chloride	2.1	B
156-60-65	trans-1,2-Dichloroethene	.50	U
75-35-4	1,1-Dichloroethene	.50	U
75-34-3	1,1-Dichloroethane	.80	
594-20-7	2,2-Dichloropropane	.50	U
74-97-1	Bromochloromethane	.50	U
156-59-2	cis-1,2-Dichloroethene	.50	U
67-66-3	Chloroform	.50	U
563-58-6	1,1-Dichloropropene	.50	U
107-06-2	1,2-Dichloroethane	.50	U
71-55-6	1,1,1-Trichloroethane	.50	U
74-95-3	Dibromomethane	.50	U
56-23-1	Carbon Tetrachloride	.50	U
75-27-4	Bromodichloromethane	.50	U
78-87-1	1,2-Dichloropropane	.50	U
10061-01-1	cis-1,3-Dichloropropene	.50	U
142-28-9	1,3-Dichloropropane	.50	U
79-01-6	Trichloroethene	1.0	
124-48-1	Dibromochloromethane	.50	U
79-00-1	1,1,2-Trichloroethane	.50	U
71-43-2	Benzene	.50	U
10061-02-6	trans-1,3-Dichloropropene	.50	U
75-25-2	Bromoform	.50	U
630-20-6	1,1,1,2-Tetrachloroethane	.50	U
127-18-4	Tetrachloroethene	1.1	
79-34-1	1,1,2,2-Tetrachloroethane	.50	U
108-88-3	Toluene	.50	U
106-93-4	1,2-Dibromoethane	.50	U
108-90-7	Chlorobenzene	.50	U
100-41-4	Ethylbenzene	.50	U
1330-29-7	Xylene (total)	.50	U

= Not Detected

Fort Monmouth NJ
U.S. Army
Bldg # 707
USDP MW-2
2931781

FMETL# 1863.2

023

1A
VOLATILE ORGANIC ANALYSIS DATA SHEET
EPA 524.2

Lab Name: EMSL ANALYTICAL
Matrix (soil/water): WATER
Sample wt/vol: 25 mL
Level (low/med): LOW
% Moisture: not dec.: NA
GC Column: DB-624 x 75m ID: 0.53mm
Soil Extract Volume: NA
Lab Sample ID: 9526431
Lab File ID: C8628.D
Date Received: 06/13/95
Date Analyzed: 06/21/95
Dilution Factor: 1
Soil Aliquot Volume: NA

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L COMMENT

100-42-1	Styrene	.50	U
98-82-8	Isopropylbenzene	.50	U
108-86-1	Bromobenzene	.50	U
96-18-4	1,2,3-Trichloropropane	.50	U
103-65-1	n-Propylbenzene	.50	U
95-49-8	2-Chlorotoluene	.50	U
106-43-4	4-Chlorotoluene	.50	U
108-67-8	1,3,5-Trimethylbenzene	.50	U
98-06-6	tert-Butylbenzene	.50	U
95-63-6	1,2,4-Trimethylbenzene	.50	U
135-98-8	sec-Butylbenzene	.50	U
541-73-1	1,3-Dichlorobenzene	.50	U
106-46-7	1,4-Dichlorobenzene	.50	U
99-87-6	4-Isopropyltoluene	.50	U
95-50-1	1,2-Dichlorobenzene	.50	U
104-51-8	n-Butylbenzene	.50	U
96-12-8	1,2-Dibromo-3-chloropropane	.50	U
120-82-1	1,2,4-Trichlorobenzene	.50	U
87-68-3	Hexachlorobutadiene	.50	U
91-20-3	Naphthalene	.50	U
87-61-6	1,2,3-Trichlorobenzene	.50	U

COMMENT
U= Not Detected

T. Monmouth NJ
B. Army
Bldg # 707

FMETL # 1863.2

1E

SAMPLE NO. 024

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

9526431V

Lab Name: EMSL ANALYTICAL Contract: _____
Project No. _____ Site: _____ Location: _____ Group: _____
Matrix: (soil/water) WATER Lab Sample ID: 9526431V
Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C8628.D
Level: (low/med) LOW Date Received: 6/13/95
% Moisture: not dec. NA Date Analyzed: 6/21/95
GC Column: DB-624 X 75M ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 3 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 75-45-6	Methane, chlorodifluoro-	3.36	2	J
2. 135-98-8	Benzene, (1-methylpropyl)-	20.93	1	J
3.	Column Bleed	22.93	1	J
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1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO. **025**

FORT MONMOUTH, NJ
US ARMY

9526431B

Lab Name: EMSL ANALYTICAL Site: _____ BLDG# 707 NJDEP# PA12-293781

FMETL# 1863.2 Matrix: (soil/water) WATER Lab Sample ID: 9526431B

Sample wt/vol: 1000.0 (g/mL ML) Lab File ID: B8029.D

Level: (low/med) _____ Date Received: 6/13/95

% Moisture: _____ decanted: (Y/N): N Date Extracted: 6/19/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/26/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
62-75-9	N-nitrosodimethylamine		2	U
111-44-4	bis(2-Chloroethyl)ether		1	U
541-73-1	1,3-Dichlorobenzene		2	U
106-46-7	1,4-Dichlorobenzene		1	U
95-50-1	1,2-Dichlorobenzene		2	U
108-60-1	bis(2-chloroisopropyl)ether		5	U
621-64-7	N-Nitroso-Di-n-propylamine		2	U
67-72-1	Hexachloroethane		1	U
98-95-3	Nitrobenzene		2	U
78-59-1	Isophorone		1	U
111-91-1	bis(2-Chloroethoxy)methane		3	U
120-82-1	1,2,4-Trichlorobenzene		2	U
91-20-3	Naphthalene		2	U
87-68-3	Hexachlorobutadiene		2	U
77-47-4	Hexachlorocyclopentadiene		12	U
91-58-7	2-Chloronaphthalene		1	U
131-11-3	Dimethylphthalate		1	U
208-96-8	Acenaphthylene		5	U
606-20-2	2,6-Dinitrotoluene		2	U
83-32-9	Acenaphthene		3	U
121-14-2	2,4-Dinitrotoluene		3	U
84-66-2	Diethylphthalate		1	U
86-73-7	Fluorene		3	U
7005-72-3	4-Chlorophenyl-phenylether		3	U
86-30-6	n-Nitrosodiphenylamine		6	U
122-66-7	1,2-Diphenylhydrazine(as azo)		6	U
101-55-3	4-Bromophenyl-phenylether		2	U
118-74-1	Hexachlorobenzene		2	U
85-01-08	Phenanthrene		2	U
120-12-7	Anthracene		2	U
84-74-2	Di-n-butylphthalate		5	U
206-44-0	Fluoranthene		1	U
92-87-5	Benzidine		1	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

9526431B

Lab Name: EMSL ANALYTICAL US ARMY

FMETL# 1863.2 Site: _____ BLDG# 767 NJDEP# 114 293/781

Matrix: (soil/water) WATER Lab Sample ID: 9526431B

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: B8029.D

Level: (low/med) _____ Date Received: 6/13/95

% Moisture: _____ decanted: (Y/N) N Date Extracted: 6/19/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/26/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Concentration Units:

Number TICs found: 0 (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc	Q
1.	NONE FOUND			
2.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FMETL#

028

Lab Name: EMSL ANALYTICAL

Contract: U.S. ARMY

1863.3

Project No.: FT. MONMOUTH NJ Bldg#: 707

NJDEP MW#: DUP

Matrix: (soil/water) WATER

Lab Sample ID: 9526432

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: C8638.D

Level: (low/med) LOW

Date Received: 6/13/95

% Moisture: not dec. NA

Date Analyzed: 6/22/95

GC Column: DB-624 x 75m ID: 0.53 (mm)

Dilution Factor: 1.0

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	.50		U
74-87-3	Chloromethane	.50		U
75-01-4	Vinyl chloride	.50		U
74-83-9	Bromomethane	.50		U
75-00-3	Chloroethane	.50		U
75-69-4	Trichlorofluoromethane	.50		U
75-35-4	1,1-Dichloroethene	.50		U
75-09-2	Methylene chloride	1.2		B
156-60-65	trans-1,2-Dichloroethene	.50		U
75-34-3	1,1-Dichloroethane	.80		
594-20-7	2,2-Dichloropropane	.50		U
156-59-2	cis-1,2-Dichloroethene	.50		U
74-97-1	Bromochloromethane	.50		U
67-66-3	Chloroform	.50		U
71-55-6	1,1,1-Trichloroethane	.50		U
56-23-1	Carbon tetrachloride	.50		U
563-58-6	1,1-Dichloropropene	.50		U
71-43-2	Benzene	.50		U
107-06-2	1,2-Dichloroethane	.50		U
79-01-6	Trichloroethene	1.1		
78-87-1	1,2-Dichloropropane	.50		U
74-95-3	Dibromomethane	.50		U
75-27-4	Bromodichloromethane	.50		U
10061-01-1	cis-1,3-Dichloropropene	.50		U
108-88-3	Toluene	.50		U
10061-02-6	trans-1,3-Dichloropropene	.50		U
79-00-1	1,1,2-Trichloroethane	.50		U
127-18-4	Tetrachloroethene	1.1		
142-28-9	1,3-Dichloropropane	.50		U
124-48-1	Dibromochloromethane	.50		U
106-93-4	1,2-Dibromomethane	.50		U
108-90-7	Chlorobenzene	.50		U
630-20-6	1,1,1,2-Tetrachloroethane	.50		U

IA
VOLATILE ORGANICS ANALYSIS DATA SHEET

FMETL#

029

Lab Name: EMSL ANALYTICAL

Contract: U.S. ARMY

1863.3

Project No.: FT. MONMOUTH NJ Bldg#: 707

NJDEP MW#: DUP

Matrix: (soil/water) WATER

Lab Sample ID: 9526432

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: C8638.D

Level: (low/med) LOW

Date Received: 6/13/95

% Moisture: not dec. NA

Date Analyzed: 6/22/95

GC Column: DB-624 x 75m ID: 0.53 (mm)

Dilution Factor: 1.0

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/L</u>	Q
100-41-4	Ethylbenzene	.50		U
1330-29-7	Xylene (total)	.50		U
100-42-1	Styrene	.50		U
75-25-2	Bromoform	.50		U
98-82-8	Isopropylbenzene	.50		U
108-86-1	Bromobenzene	.50		U
79-34-1	1,1,2,2-Tetrachloroethane	.50		U
96-18-4	1,2,3-Trichloropropane	.50		U
103-65-1	n-Propylbenzene	.50		U
95-49-8	2-Chlorotoluene	.50		U
106-43-4	4-Chlorotoluene	.50		U
108-67-8	1,3,5-Trimethylbenzene	.50		U
98-06-6	tert-Butylbenzene	.50		U
95-63-6	1,2,4-Trimethylbenzene	.50		U
135-98-8	sec-Butylbenzene	.50		U
541-73-1	1,3-Dichlorobenzene	.50		U
99-87-6	4-Isopropyltoluene	.50		U
106-46-7	1,4-Dichlorobenzene	.50		U
95-50-1	1,2-Dichlorobenzene	.50		U
104-51-8	n-Butylbenzene	.50		U
96-12-8	1,2-Dibromo-3-chloropropane	.50		U
120-82-1	1,2,4-Trichlorobenzene	.50		U
87-68-3	Hexachlorobutadiene	.50		U
91-20-3	Naphthalene	.50		U
87-61-6	1,2,3-Trichlorobenzene	.50		U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FMETL#

1863.3

030

Lab Name: EMSL ANALYTICAL Contract: U.S. ARMY

Project No. FT. MONMOUTH NJ Bldg# 707 NJDEP MW#: DUP

Matrix: (soil/water) WATER Lab Sample ID: 9526432V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C8638.D

Level: (low/med) LOW Date Received: 6/13/95

% Moisture: not dec. NA Date Analyzed: 6/22/95

GC Column: DB-624 X 75M ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:

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

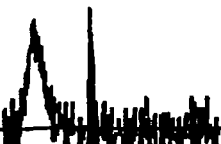
CAS Number	Compound Name	RT	Est. Conc.	Q
1. 75-45-6	Methane, chlorodifluoro-	3.36	2	J
2. 1634-04-4	Propane, 2-methoxy-2-methyl-	8.08	1	J
3.				
4.				
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REPORT NARRATIVE

All initial runs for the Ft. Monmouth P.O. #IJO #95-0091/SAI were analyzed within hold. The samples were taken by EMSL between the dates of 5/18/95 thru 5/25/95.

There was a problem with the water used for the field and trip blanks. On certain days the field crew used DI water from the incorrect system resulting in low level contamination of Toluene, 2-Chlorotoluene and sometimes Chlorobenzene. However the resultant concentrations of these compounds were very low and the samples accompanying these field and trip blanks did not show these compounds to be present.





ANALYTICAL DATA REPORT

FOR

**U.S. Army Fort Monmouth
SELFM-PW-EV
Building 173
Fort Monmouth, NJ 07703**

PROJECT : #94513093229

EMSL Project: # 9508277

New Jersey

**Corporate Office &
Main Laboratory**
108 Haddon Avenue
Westmont, NJ 08108
(609) 858-4800

3 Cooper Street
Westmont, NJ 08108
(609) 858-4800

1056 Stelton Road
Piscataway, NJ 08854
(908) 981-0550

New York

350 Fifth Avenue
Empire State Bldg.
Suite 1524
New York, NY 10118
(212) 290-0051

208 Stonehenge Lane
Carle Place, NY 11514
(516) 997-7251

California

1720 S. Amphlett Blvd.
Suite 130
San Mateo, CA 94402
(415) 570-5401

Florida

1878 Adams Avenue
Melbourne, FL 32935
(407) 253-4224

Georgia

1600 Roswell Street, SE
Suite One
Smyrna, GA 30080
(404) 333-6066

Michigan

212 S. Wagner Road
Ann Arbor, MI 48103
(313) 668-6810

North Carolina

620-G Guilford College Rd.
Greensboro, NC 27409
(910) 297-1487

Texas

2501 Central Parkway
Suite C-13
Houston, TX 77092
(713) 686-3635

Field Sample No. & Location	Laboratory Sample ID	Matrix	Date & Time of Collection		Date Received
1830.1 Bldg. 707 MW1-2931780	95-23169	Aqueous	5/18/95	15:19	5/19/95
1830.2 Bldg. 707 MW2-2931781	95-23170	Aqueous	5/18/95	16:03	5/19/95
1830.3 Duplicate	95-23171	Aqueous	5/18/95	*	5/19/95
1830.4 Trip Blank	95-23164	Aqueous	5/18/95	06:15	5/19/95
1830.5 Field Blank	95-23165	Aqueous	5/18/95	14:30	5/19/95

*Collection time was not noted on Chain of Custody

Laboratory Name

EMSL ANALYTICAL, INC.

Certification No.

NJDEP No. 04653
PADER No. 68-367
NY-ELAP No. 10896

Supervisor/Manager Signature

Printed Name

Paul V. Laraia

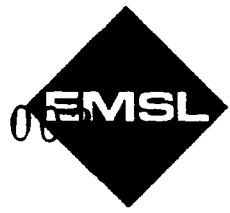
Date

06-26-95

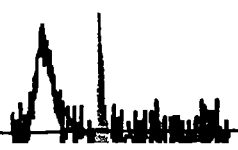


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SAMPLE DATA SUMMARY PACKAGE





Attention: Charles Appleby
U.S. Army - Fort Monmouth
SELFM-PW-EV
Building 173
Fort Monmouth NJ 07703

Date of Report: 06/23/95
Project Number: 09508277
Lab ID: 95-0023169
Date Collected: 05/18/95 15:19
Collected By: Client
Date Received: 05/19/95 07:00

Client Project: 94513093229

Client Designation: Bldg.707,MW1-2931780

Conc. Unit

ORGANIC

Semi-Volatiles

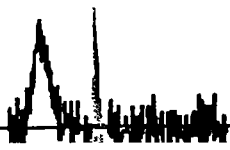
BN by 625 with Library Search

see attached ug/1

Volatiles

Volatiles by 524.2 w/ Library Search

see attached ug/1



SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

9523169B 005

Dtd: 707 MWL-2931780

Lab Name: EMSL ANALYTICAL Contract: _____
 Project No.: _____ Site: _____ Location: _____ Group: _____
 Matrix: (soil/water) WATER Lab Sample ID: 9523169B
 Sample wt/vol: 1000.0 (g/mL ML) Lab File ID: B7782.D
 Level: (low/med) _____ Date Received: 5/19/95
 % Moisture: _____ decanted: (Y/N): N Date Extracted: 5/25/95
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/2/95
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
62-75-9	N-nitrosodimethylamine		2	U
111-44-4	bis(2-Chloroethyl)ether		1	U
541-73-1	1,3-Dichlorobenzene		2	U
106-46-7	1,4-Dichlorobenzene		1	U
95-50-1	1,2-Dichlorobenzene		2	U
108-60-1	bis(2-chloroisopropyl)ether		5	U
621-64-7	N-Nitroso-Di-n-propylamine		2	U
67-72-1	Hexachloroethane		1	U
98-95-3	Nitrobenzene		2	U
78-59-1	Isophorone		1	U
111-91-1	bis(2-Chloroethoxy)methane		3	U
120-82-1	1,2,4-Trichlorobenzene		2	U
91-20-3	Naphthalene		2	U
87-68-3	Hexachlorobutadiene		2	U
77-47-4	Hexachlorocyclopentadiene		12	U
91-58-7	2-Chloronaphthalene		1	U
131-11-3	Dimethylphthalate		1	U
208-96-8	Acenaphthylene		5	U
606-20-2	2,6-Dinitrotoluene		2	U
83-32-9	Acenaphthene		3	U
121-14-2	2,4-Dinitrotoluene		3	U
84-66-2	Diethylphthalate		1	U
86-73-7	Fluorene		3	U
7005-72-3	4-Chlorophenyl-phenylether		3	U
86-30-6	n-Nitrosodiphenylamine		6	U
122-66-7	1,2-Diphenylhydrazine(as azo)		6	U
101-55-3	4-Bromophenyl-phenylether		2	U
118-74-1	Hexachlorobenzene		2	U
85-01-08	Phenanthrene		2	U
120-12-7	Anthracene		2	U
84-74-2	Di-n-butylphthalate		110	
206-44-0	Fluoranthene		1	U
92-87-5	Benzidine		1	U

IF

SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

9523169B
Bldg 707 MW1-2931780

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: 007

Matrix: (soil/water) WATER Lab Sample ID: 9523169B

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: B7782.D

Level: (low/med) _____ Date Received: 5/19/95

% Moisture: _____ decanted: (Y/N) N Date Extracted: 5/25/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/2/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Number TICs found: 1 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc	Q
1.	Unknown	29.92	9	J
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1A
VOLATILE ORGANIC ANALYSIS DATA SHEET
EPA 524.2

Bldg 707 MW-2931780

Lab Name: EMSL ANALYTICAL
Matrix (soil/water): WATER
Sample wt/vol: 25 mL
Level (low/med): LOW
% Moisture: not dec.: NA
GC Column: DB-624 x 75m ID: 0.53mm
Soil Extract Volume: NA

Lab Sample ID: 9523169
Lab File ID: C8321.D
Date Received: 05/19/95
Date Analyzed: 06/01/95
Dilution Factor: 1
Soil Aliquot Volume: NA

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L COMMENT

75-71-8	Dichlorodifluoromethane	.50	U
74-87-3	Chloromethane	.50	U
74-83-9	Bromomethane	.50	U
75-01-4	Vinyl Chloride	.50	U
75-00-3	Chloroethane	.50	U
75-69-4	Trichlorofluoromethane	.50	U
75-09-2	Methylene Chloride	.80	B
156-60-65	trans-1,2-Dichloroethene	.50	U
75-35-4	1,1-Dichloroethene	.50	U
75-34-3	1,1-Dichloroethane	.50	U
594-20-7	2,2-Dichloropropane	.50	U
74-97-1	Bromochloromethane	.50	U
156-59-2	cis-1,2-Dichloroethene	.50	U
67-66-3	Chloroform	1.10	
563-58-6	1,1-Dichloropropene	.50	U
107-06-2	1,2-Dichloroethane	.50	U
71-55-6	1,1,1-Trichloroethane	.50	U
74-95-3	Dibromomethane	.50	U
56-23-1	Carbon Tetrachloride	.50	U
75-27-4	Bromodichloromethane	.50	U
78-87-1	1,2-Dichloropropane	.50	U
10061-01-1	cis-1,3-Dichloropropene	.50	U
142-28-9	1,3-Dichloropropane	.50	U
79-01-6	Trichloroethene	.50	U
124-48-1	Dibromochloromethane	.50	U
79-00-1	1,1,2-Trichloroethane	.50	U
71-43-2	Benzene	.50	U
10061-02-6	trans-1,3-Dichloropropene	.50	U
75-25-2	Bromoform	.50	U
630-20-6	1,1,1,2-Tetrachloroethane	.50	U
127-18-4	Tetrachloroethene	.50	U
79-34-1	1,1,2,2-Tetrachloroethane	.50	U
108-88-3	Toluene	.50	U
106-93-4	1,2-Dibromoethane	.50	U
108-90-7	Chlorobenzene	.50	U
100-41-4	Ethylbenzene	.50	U
1330-29-7	Xylene (total)	.50	U

U= Not Detected

U.S. Army FT. Monmouth NJ.

009

1A
VOLATILE ORGANIC ANALYSIS DATA SHEET FMETL # 1830.1
EPA 524.2

Bldg 707 MW1-2931780

Lab Name: EMSL ANALYTICAL
Matrix (soil/water): WATER
Sample wt/vol: 25 mL
Level (low/med): LOW
% Moisture: not dec.: NA
GC Column: DB-624 x 75m ID: 0.53mm
Soil Extract Volume: NA

Lab Sample ID: 9523169
Lab File ID: C8321.D
Date Received: 05/19/95
Date Analyzed: 06/01/95
Dilution Factor: 1
Soil Aliquot Volume: NA

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L COMMENT

100-42-1	Styrene	.50	U
98-82-8	Isopropylbenzene	.50	U
108-86-1	Bromobenzene	.50	U
96-18-4	1,2,3-Trichloropropane	.50	U
103-65-1	n-Propylbenzene	.50	U
95-49-8	2-Chlorotoluene	.50	U
106-43-4	4-Chlorotoluene	.50	U
108-67-8	1,3,5-Trimethylbenzene	.50	U
98-06-6	tert-Butylbenzene	.50	U
95-63-6	1,2,4-Trimethylbenzene	.50	U
135-98-8	sec-Butylbenzene	.50	U
541-73-1	1,3-Dichlorobenzene	.50	U
106-46-7	1,4-Dichlorobenzene	.50	U
99-87-6	4-Isopropyltoluene	.50	U
95-50-1	1,2-Dichlorobenzene	.50	U
104-51-8	n-Butylbenzene	.50	U
96-12-8	1,2-Dibromo-3-chloropropane	.50	U
120-82-1	1,2,4-Trichlorobenzene	.50	U
87-68-3	Hexachlorobutadiene	.50	U
91-20-3	Naphthalene	.50	U
87-61-6	1,2,3-Trichlorobenzene	.50	U

COMMENT

U= Not Detected

BLDG.#: 707 MW#: 1 NJDEPE WELL ID # 2931730 09a

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATASHEET

DATE: 5-17-95

IJO#95-0091

SAMPLING CONTRACTOR: EMSL Analytical Services Inc.

LABORATORY: EMSL Analytical Services, NJDEP CERT #:

SAMPLERS NAMES: Tom Baxter Susan Palilonis

WEATHER CONDITIONS: Sunny humid

ELEVATION OF CASING SURVEY MARK: _____

TOTAL DEPTH OF WELL FROM TOP OF SURVEYORS MARK: 14.98 FT

DEPTH FROM SURVEYORS MARK TO SCREEN: _____ FT

LENGTH OF SCREENED SECTION: _____ FT.

DEPTH TO WATER PRIOR TO PURGING AND SAMPLING: 9.00 FT

ELEVATION OF GW PRIOR TO PURGING: _____ FT

THICKNESS OF LNAPL PRIOR TO PURGING : _____ FT

PID/Hnu READING IMMEDIATELY AFTER THE WELL CAP IS

REMOVED: 98.0 PPM ¹⁴⁴⁵ DO 2.5 ppm

pH: 5.08 TEMP: 19.7 C, SPECIFIC CONDUCTIVITY: 213 μ s/cm

DEPTH OF WELL: _____ FT

HEIGHT OF WATER: _____ FT

EVACUATED GAL. H2O: 12 GAL (598 X .65 X 3 = 11.661)

PURGING START TIME: 14:54 END TIME: 15:00

PURGE METHOD: (FLOW RATE OF <0.5 GPM TO >5.0 GPM)

PURGE RATE (<0.5 GPM): 2 GPM

TOTAL VOLUME PURGED: 12 GAL.

DEPTH TO WATER AFTER PURGING AND BEFORE

SAMPLING: 9.64 FT

DISSOLVED OXYGEN: 3.4 ppm pH: 4.70 TEMP: 17.7 °C

SPECIFIC CONDUCTIVITY: 195 μ s/cm

SAMPLING METHOD: DEDICATED, DECONTAMINATED (IAW NJDEP FSPM 1992) TEFLON® BAILER

START TIME OF SAMPLING: 15:00 END TIME: 15:19

DISSOLVED OXYGEN: 2.2 ppm pH: 4.73 TEMP: 17.7 °C

SPECIFIC CONDUCTIVITY: 177 μ s/cm

COMMENTS: no gas 1455

In case (idea)

*duplicate
F17

010



Attention: Charles Appleby
U.S. Army - Fort Monmouth
SELFM-PW-EV
Building 173
Fort Monmouth NJ 07703

Date of Report: 07/18/95
Project Number: 09508277
Lab ID: 95-0023170
Date Collected: 05/18/95 16:03
Collected By: Client
Date Received: 05/19/95 07:00

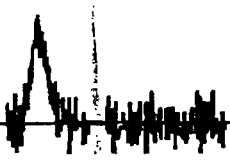
Client Project: 94513093229

Client Designation: Bldg.707,MW2-2931781

Conc. Unit

ORGANIC

Semi-Volatiles	
BN by 625 with Library Search	see attached ug/l
Volatiles	
Volatiles by 524.2 w/ Library Search	see attached ug/l



U.S. Army Ft. Monmouth NJ
 1B
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FMETL # 1830,2
 SAMPLE NO.

9523170B
 Bldg 707 Mo 2 22-1781
 011

Lab Name: EMSL ANALYTICAL Contract: _____
 Project No.: _____ Site: _____ Location: _____ Group: _____
 Matrix: (soil/water) WATER Lab Sample ID: 9523170B
 Sample wt/vol: 1000.0 (g/mL ML) Lab File ID: B7783.D
 Level: (low/med) _____ Date Received: 5/19/95
 % Moisture: _____ decanted: (Y/N): N Date Extracted: 5/25/95
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/2/95
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
62-75-9	N-nitrosodimethylamine		2	U
111-44-4	bis(2-Chloroethyl)ether		1	U
541-73-1	1,3-Dichlorobenzene		2	U
106-46-7	1,4-Dichlorobenzene		1	U
95-50-1	1,2-Dichlorobenzene		2	U
108-60-1	bis(2-chloroisopropyl)ether		5	U
621-64-7	N-Nitroso-Di-n-propylamine		2	U
67-72-1	Hexachloroethane		1	U
98-95-3	Nitrobenzene		2	U
78-59-1	Isophorone		1	U
111-91-1	bis(2-Chloroethoxy)methane		3	U
120-82-1	1,2,4-Trichlorobenzene		2	U
91-20-3	Naphthalene		2	U
87-68-3	Hexachlorobutadiene		2	U
77-47-4	Hexachlorocyclopentadiene		12	U
91-58-7	2-Chloronaphthalene		1	U
131-11-3	Dimethylphthalate		1	U
208-96-8	Acenaphthylene		5	U
606-20-2	2,6-Dinitrotoluene		2	U
83-32-9	Acenaphthene		3	U
121-14-2	2,4-Dinitrotoluene		3	U
84-66-2	Diethylphthalate		1	U
86-73-7	Fluorene		3	U
7005-72-3	4-Chlorophenyl-phenylether		3	U
86-30-6	n-Nitrosodiphenylamine		6	U
122-66-7	1,2-Diphenylhydrazine(as azo)		6	U
101-55-3	4-Bromophenyl-phenylether		2	U
118-74-1	Hexachlorobenzene		2	U
85-01-08	Phenanthrene		2	U
120-12-7	Anthracene		2	U
84-74-2	Di-n-butylphthalate		92	
206-44-0	Fluoranthene		1	U
92-87-5	Benzidine		1	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

9523170B
Bldg 707 Monmouth NJ 08051
113

Lab Name: EMSL ANALYTICAL Contract: _____
 Project No.: _____ Site: _____ Location: _____ Group: _____
 Matrix: (soil/water) WATER Lab Sample ID: 9523170B
 Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: B7783.D
 Level: (low/med) _____ Date Received: 5/19/95
 % Moisture: _____ decanted: (Y/N) N Date Extracted: 5/25/95
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/2/95
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____
 Number TICs found: 1 Concentration Units: _____
 (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc	Q
1.	Unknown	29.93	29	J
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US Army Ft. Monmouth NJ

014

1A

VOLATILE ORGANIC ANALYSIS DATA SHEET
EPA 524.2

FMETL #1830.2

Bldg 707 MW2-2931781

Lab Name: EMSL ANALYTICAL
Matrix (soil/water): WATER
Sample wt/vol: 25 mL
Level (low/med): LOW
% Moisture: not dec.: NA
GC Column: DB-624 x 75m ID: 0.53mm
Soil Extract Volume: NA

Lab Sample ID: 9523170
Lab File ID: C8322.D
Date Received: 05/19/95
Date Analyzed: 06/01/95
Dilution Factor: 1
Soil Aliquot Volume: NA

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L COMMENT

75-71-8	Dichlorodifluoromethane	.50	U
74-87-3	Chloromethane	.90	
74-83-9	Bromomethane	.50	U
75-01-4	Vinyl Chloride	.50	U
75-00-3	Chloroethane	.50	U
75-69-4	Trichlorofluoromethane	.50	U
75-09-2	Methylene Chloride	1.40	B
156-60-65	trans-1,2-Dichloroethene	.50	U
75-35-4	1,1-Dichloroethene	.50	U
75-34-3	1,1-Dichloroethane	.60	
594-20-7	2,2-Dichloropropane	.50	U
74-97-1	Bromochloromethane	.50	U
156-59-2	cis-1,2-Dichloroethene	.50	U
67-66-3	Chloroform	.50	U
563-58-6	1,1-Dichloropropene	.50	U
107-06-2	1,2-Dichloroethane	.50	U
71-55-6	1,1,1-Trichloroethane	.50	U
74-95-3	Dibromomethane	.50	U
56-23-1	Carbon Tetrachloride	.50	U
75-27-4	Bromodichloromethane	.50	U
78-87-1	1,2-Dichloropropane	.50	U
10061-01-1	cis-1,3-Dichloropropene	.50	U
142-28-9	1,3-Dichloropropane	.50	U
79-01-6	Trichloroethene	.80	
124-48-1	Dibromochloromethane	.50	U
79-00-1	1,1,2-Trichloroethane	.50	U
71-43-2	Benzene	.50	U
10061-02-6	trans-1,3-Dichloropropene	.50	U
75-25-2	Bromoform	.50	U
630-20-6	1,1,1,2-Tetrachloroethane	.50	U
127-18-4	Tetrachloroethene	.80	
79-34-1	1,1,2,2-Tetrachloroethane	.50	U
108-88-3	Toluene	.50	U
106-93-4	1,2-Dibromoethane	.50	U
108-90-7	Chlorobenzene	.50	U
100-41-4	Ethylbenzene	.50	U
1330-29-7	Xylene (total)	.50	U

U= Not Detected

BLDG.#: 707 MW#: 2 NJDEPE WELL ID # 2931781

015

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATASHEET

DATE: 5-18-95

IJO#95-0091

SAMPLING CONTRACTOR: EMSL Analytical Services Inc.

LABORATORY: EMSL Analytical Services, NJDEP CERT #:

SAMPLERS NAMES: Tom Baxter Susan Malonis

WEATHER CONDITIONS: Sunny breezy → cool & overcast

ELEVATION OF CASING SURVEY MARK: _____

TOTAL DEPTH OF WELL FROM TOP OF SURVEYORS MARK: 14.93 FT

DEPTH FROM SURVEYORS MARK TO SCREEN: _____ FT

LENGTH OF SCREENED SECTION: _____ FT.

DEPTH TO WATER PRIOR TO PURGING AND SAMPLING: 16.47 FT

ELEVATION OF GW PRIOR TO PURGING: _____ FT

THICKNESS OF LNAPL PRIOR TO PURGING : 0.00 FT

PID/Hnu READING IMMEDIATELY AFTER THE WELL CAP IS

REMOVED: 168 PPM 1537 D.O. 2.5 PPM

pH: 5.26 TEMP: 19.6 C, SPECIFIC CONDUCTIVITY: 384 μ s/cm

DEPTH OF WELL: _____ FT

HEIGHT OF WATER: _____ FT

EVACUATED GAL. H2O: 17 GAL (2.46 X .65 X 3 = 16.497)

PURGING START TIME: 1542 END TIME: 1558

PURGE METHOD: (FLOW RATE OF <0.5 GPM TO >5.0

GPM) _____

PURGE RATE (<0.5 GPM): 2 GPM

TOTAL VOLUME PURGED: 17 GAL.

DEPTH TO WATER AFTER PURGING AND BEFORE

SAMPLING: 10.96 FT

DISSOLVED OXYGEN: 3.7 ppm pH: 5.08 TEMP: 17.6 °C

SPECIFIC CONDUCTIVITY: 387 μ s/cm

SAMPLING METHOD: DEDICATED, DECONTAMINATED (IAW NJDEP

FSPM 1992) TEFLON® BAILER

START TIME OF SAMPLING: 1556 END TIME: 1603

DISSOLVED OXYGEN: 4.0 ppm pH: 5.00 TEMP: 16.7 °C

SPECIFIC CONDUCTIVITY: 414 μ s/cm

COMMENTS: in situ 1534

to be cleaned