

United States Army
Fort Monmouth, New Jersey

Underground Storage Tank Closure and Site Investigation Report

***Building 699
Main Post-West Area***

**NJDEP UST Registration Nos. 81533-235 through 238
DICAR Nos. 89-10-19-1329**

May 2001

**UNDERGROUND STORAGE TANK
CLOSURE AND SITE INVESTIGATION REPORT**

BUILDING 699

**MAIN POST-WEST AREA
NJDEP UST REGISTRATION NOS. 81533-235 THROUGH 238**

MAY 2001

PREPARED FOR:

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

PREPARED BY:

***Versar* INC.**

**2558 PEARL BUCK ROAD
SUITE 1
BRISTOL, PA 19007**

PROJECT NO. 4936-127

EXECUTIVE SUMMARY

UST Closure

On September 1, 1999, four steel underground storage tanks (USTs) were closed by removal in accordance with New Jersey Department of Environmental Protection (NJDEP) closure procedures at the Main Post-West Area of the U.S. Army Fort Monmouth, Fort Monmouth, New Jersey. The USTs, NJDEP Registration Nos. 0081533-235 thru 238 (Fort Monmouth ID No. 699), were located northwest of Building 699. These four USTs were each 4,000-gallon tanks that contained gasoline.

Site Assessment-Soil

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*. Soils surrounding the tank were screened visually and with air monitoring equipment for evidence of contamination. Following removal, the USTs were inspected for corrosion holes. Numerous holes were noted in the USTs. Soils at the location of the holes were dark in color and appeared to be contaminated. Groundwater was encountered at 10.0 feet below ground surface and sheen was observed on groundwater.

On September 1, 1999, following the removal of the USTs and 60 cubic yards of potentially petroleum contaminated soil, post-excavation soil samples A, B, C, D, E, F, G, H, I, and DUP D were collected from nine (9) locations within the UST excavation area. Sidewall samples A, B, C, D, E, F, G, H, and DUP D were collected at a depth of 8.0 feet bgs. Sample I was collected along the centerline at a depth of 9.5 feet bgs. Between September 29, 1999, and October 4, 1999, nine (9) piping samples were collected along the former piping length of the excavation. These soil samples were designated PS-1 through PS-9. The samples were collected at a depth of 1.5-3.5 feet bgs. Each of the soil samples was analyzed for total solids, lead, and Volatile Organic Compounds (VOCs).

Analytical results of post-excavation soil samples collected between September 1, 1999, and October 4, 1999, indicated concentrations of benzene and xylenes which exceeded the NJDEP Residential Direct Contact Soil Cleanup Criteria (RDCSCC). All other soil samples contained either non-detectable concentrations of contaminants or concentrations of contaminants below the NJDEP RDCSCC.

Site Assessment-Groundwater

In response to the observation of potentially contaminated soil near the shallow water table, one (1) groundwater sample was collected at Building 699 on September 1, 1999.

This groundwater sample was analyzed for VOCs calibrated for xylene plus 15 tentatively identified compounds (TICs), methyl tertiary butyl ether (MTBE), tertiary butyl alcohol (TBA), and lead. The following groundwater analytical results for MTBE, benzene, toluene, ethylbenzene, and xylenes were above the New Jersey Ground Water Quality Criteria (GWQC):

- MTBE (GWQC = 70 ug/L) was detected at a concentration of 303.83 ug/L.
- Benzene (GWQC = 1.0 ug/L) was detected at a concentration of 729.61 ug/L.
- Toluene (GWQC = 1,000 ug/L) was detected at a concentration of 3,316.33 ug/L.
- Ethylbenzene (GWQC = 700 ug/L) was detected at a concentration of 886.90 ug/L.
- Xylenes (GWQC = 40 ug/L) were detected at a concentration of 8,068.37 ug/L.

Conclusion and Recommendations

Based on the analytical results of the post-excavation samples collected between September 1, 1999, and October 4, 1999, soil quality at the Building 699 UST closure site exceeds the NJDEP soil cleanup criteria and groundwater quality at the Building 699 UST closure site exceeds the New Jersey GWQC. Should the proposed actions taken from the RAWPSA indicate that the soil quality complies with the NJDEP soil cleanup criteria and the groundwater meets the GWQC, no further action will be proposed in regard to the closure and site assessment of UST Nos. 0081533-235 through 238.

1.0 UNDERGROUND STORAGE TANK DECOMMISSIONING ACTIVITIES

1.1 OVERVIEW

Four underground storage tanks (USTs), New Jersey Department of Environmental Protection (NJDEP) Registration Nos. 81533-235 thru 238, were closed at Building 699 at the Main Post-West area of U.S. Army Fort Monmouth, Fort Monmouth, New Jersey on September 1, 1999. Refer to the Site Location Map, Figure 1. This report presents the results of the Department of Public Works' (DPW) implementation of the UST Decommissioning/Closure Plan approved by the NJDEP. The USTs were each steel 4,000-gallon tanks containing gasoline.

Decommissioning activities for UST Nos. 81533-235 thru 238 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 and 1910.120. All permits including but not limited to the NJDEP-approved Decommissioning/Closure Plan were posted onsite for inspection. The decommissioning activities were conducted by DPW personnel who are registered and certified by the NJDEP for performing UST closure activities. Closure of UST Nos. 81533-235 thru 238 proceeded under the approval of the NJDEP Bureau of Federal Case Management (NJDEP-BFCM). The Standard Reporting Form and signed Site Assessment Summary form for UST Nos. 81533-235 thru 238 are included in Appendices A and B, respectively.

Versar has prepared this UST Closure and Site Investigation Report to assist the U.S. Army DPW in complying with the NJDEP regulations. The applicable NJDEP regulations at the date of closure were the *Interim Closure Requirements for Underground Storage Tank Systems* (N.J.A.C. 7:14B-1 et seq. October 1990 and revisions dated November 1, 1991).

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

1.2 SITE DESCRIPTION AND HISTORY

Building 699 is located in the Main Post-West area of the Fort Monmouth Army Base. UST Nos. 0081533-235 thru 238 were located northwest of Building 699 and appurtenant steel piping ran approximately sixty-four (64) feet northeast from the excavation. A Site Map is provided as Figure 2.

1.2.1 Site History

Provided below is a brief site history and summary of the proposed measures that will be

implemented at the Building 699 area.

On October 19, 1989, the DPW contacted NJDEP to report an apparent release of gasoline from the piping system at the gas station. The loss of product was discovered as a result of an inventory discrepancy found during routine inventory control. Subsequent pressure testing of the gasoline system indicated that the leak was located in the product line between the tanks and pumps. An Incident Number was assigned to the site by the NJDEP (#89-10-19-1329) for the gasoline release. Following the release, the DPW replaced the piping system connecting the USTs and the fuel pumps with equipment that was compliant with NJDEP Bureau of Underground Storage Tanks (BUST) requirements.

A separate-phase product (SPP) recovery pump was then installed in a monitoring well immediately downgradient of the source in an attempt to recover remaining SPP. In response to NJDEP's request, Fort Monmouth submitted a Discharge Investigation and Corrective Action Report (DICAR), dated July 3, 1990. Additionally, in response to the 1989 release, seventeen (17) monitoring wells and three (3) recovery wells were installed at the site. The Krydon Group, Inc. (Krydon) was then contracted to determine the extent of gasoline contamination at the site by means of a soil boring program conducted in July 1993.

Remedial Action Workplan

In a letter dated June 18, 1993, the NJDEP requested submission of a RAW. The U.S. Army submitted the RAW on October 12, 1993 (prepared by Krydon). As specified in the RAW, a groundwater recovery and treatment system was constructed which extracts groundwater from one (1) recovery well (RW-11). TECOM-Vinell Services, Inc. (TVS) personnel currently operate and maintain this currently operational groundwater recovery and treatment system. This treatment system consists of one (1) sediment filter, and three (3) one hundred and eighty (180) pound liquid-phase granular activated carbon (GAC) units installed in series. The GAC units remove VOCs from the extracted groundwater. The treated groundwater is then discharged to the sanitary sewer in accordance with Fort Monmouth's existing Treatment Works Approval (TWA) Permit with the Northeast Monmouth County Regional Sewerage Authority.

Remedial Action Workplan Addendum

In order to improve the remediation program for the site, GES was contracted by DPW (through TVS) to prepare a Remedial Action Workplan Addendum (RAWA) for the site. As part of this effort, GES performed remedial action pilot tests to evaluate potential remedial options. The RAWA (GES, 1999), dated June 10, 1999 was submitted to NJDEP and provided specifications for a proposed remedial system upgrade. As described in the RAWA, the proposed remedial system upgrade utilized soil vapor extraction (SVE) and groundwater pumping to extract soil vapor and groundwater from existing monitoring wells and proposed extraction laterals and wells. Furthermore, it proposed VOC removal from the groundwater using in-situ air stripping (air sparging). The extracted soil vapor and groundwater were to be treated and discharged in accordance with applicable discharge permits. The RAWA also established a proposed Classification Exception Area (CEA)

encompassing the estimated capture zone of the proposed upgraded remedial system.

Remedial Action Workplan Second Addendum

Subsequent to submission of the RAWA, further characterization and evaluation of site conditions identified the potential existence of clays in the upper horizon at the site. These soils would not be effectively addressed by the proposed SVE system, which is typically designed to remediate permeable sandy soils, such as those underlying the upper clay unit at the site. EEB was therefore proposed to attempt to remediate the contaminated soils in the upper soil horizon within an estimated depth of 3-4 feet below ground surface (bgs).

EEB involves the process of transforming hazardous constituents to non-hazardous ones in a biological system, and is the result of complex biochemical reactions in which microorganisms (bacteria) convert the hazardous constituents to energy and cell mass. To initiate this process, high levels of target-specific, petroleum-degrading biological enhancements (enzymes, bacteria, nutrients) and oxygen are provided to the targeted contaminated soils.

To further delineate the horizontal and vertical extent of soil contamination at the site and to identify "hot spot" areas that could be addressed by the EEB, as well as to aid in the design of the proposed SVE system, supplemental soil sampling was performed at the site in March and April 2000 by DPW and TVS personnel over a sampling grid encompassing 83 locations. The borings were installed with a Geoprobe®, and soil samples were collected at 6-inch alternating intervals to a depth of 12 feet bgs for a total of 12 samples per boring location. The samples were analyzed for VOCs, total petroleum hydrocarbons (TPHC), lead, and percent (%) solids.

In October 2000, the DPW submitted a Remedial Action Workplan Second Addendum (RAWSA) for the AAFES Main Post Gas Station, Building No. 699 (prepared by Versar).. The RAWSA addresses the planned implementation of enzyme-enhanced bioremediation (EEB) as a supplement to the previously proposed remedial system upgrade for the Main Post Gas Station, Building 699.

1.2.2 Geological/Hydrogeological Setting

The following is a description of the geological/hydrogeological setting of the area surrounding Building 699. 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. More than 20 regional geologic units are present within the sediments of the Coastal Plain. Regressive, upward coarsening deposits are usually aquifers (e.g., Englishtown and Kirkwood Formations, and the Cohansey Sand) while the transgressive deposits act as confining units (e.g., the Merchantville, Marshalltown, and Navesink Formations). The individual thicknesses for these units vary greatly (i.e., from several feet to several hundred feet). The Coastal Plain deposits thicken to the southeast from the Fall Line to greater than 6,500 feet in Cape May County (Brown and 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 glauconitic coarse sand. The color varies from dark yellowish orange or light brown to moderate brown and from light olive to grayish olive. Glauconite may constitute 60 to 80 percent of the sand fraction in the upper part of the unit (Minard, 1969). The upper part of the Tinton is often highly oxidized and iron oxide encrusted (Minard).

Hydrogeology

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

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

Due to the proximity of the Atlantic Ocean to Fort Monmouth, shallow groundwater may be

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

Shallow groundwater is locally influenced within the Main Post area by the following factors:

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

Due to the fluvial nature of the overburden deposits (i.e., sand and clay lenses), shallow groundwater flow direction is best determined on a case-by-case basis. This is consistent with lithologies observed in borings installed within the Main Post area, which primarily consisted of fine-to-medium grained sands, with occasional lenses or laminations of gravel silt and/or clay.

Building 699 is located approximately 800 feet north of Husky Brook, the nearest water body. Based on the Main Post topography, the groundwater flow in the area of Building 699 is anticipated to be to the south.

1.3 HEALTH AND SAFETY

Before, during, and after all decommissioning activities, hazards at the work site which may have posed a threat to the Health and Safety of all personnel who were involved with, or were affected by, the decommissioning of the UST system were minimized. All areas which posed or may have been suspected to pose a vapor hazard were monitored by a qualified individual utilizing an organic vapor analyzer (OVA). The individual ascertained if the area was properly vented to render the area safe, as defined by OSHA.

1.4 REMOVAL OF UNDERGROUND STORAGE TANK

1.4.1 General Procedures

- The contractor performing the closure prior to excavation activities identified all underground obstructions (utilities, etc.).
- 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 Organic Vapor Analyzer (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 Subsurface Evaluator from the DPW was present during all site assessment activities.

1.4.2 Underground Storage Tank Excavation and Cleaning

Prior to UST decommissioning activities, surficial soil was removed to expose the UST and associated piping. All free product present in the piping was drained into the UST and the UST was purged to remove vapors prior to cutting and removal of the piping. After removal of the associated piping, a manway was cut in the UST to allow for proper cleaning. The UST was completely emptied of all liquids prior to removal from the ground. Approximately 2,850 gallons of liquid from the UST and its associated piping were transported by Casie Protank to Casie Ecology Oil Salvage, Inc. facility, a NJDEP-approved petroleum recycling and disposal company located in Vineland, New Jersey. Refer to Appendix C for the waste manifest.

The UST was cleaned prior to removal from the excavation in accordance with the NJDEP regulations. After the UST was removed from the excavation, it was staged on polyethylene sheeting and examined for holes. Numerous holes were observed during the inspection by the Subsurface Evaluator. Soils surrounding the UST were screened visually and with an OVA for evidence of contamination. Soils were stained and appeared to be contaminated. Approximately 60 cubic yards of potentially contaminated soils were removed from the excavated area and stored at the Fort Monmouth petroleum contaminated soil staging area. Groundwater was encountered at 10.0 feet below ground surface and sheen was observed on groundwater.

1.5 UNDERGROUND STORAGE TANK TRANSPORTATION AND DISPOSAL

The tank was transported in compliance with all applicable regulations and laws to Metal Recyclers, Inc. Please refer to Appendix D for the UST Disposal Certificate.

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

- Site of origin
- Contact person
- NJDEP UST Facility ID number
- Former contents
- Destination site
- Date

1.6 MANAGEMENT OF EXCAVATED SOILS

Based on visual observation, approximately 60 cubic yards of potentially contaminated soil were removed 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 the soil staging

area. Soils that did not exhibit signs of contamination were used as backfill following the 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 Subsurface Evaluator according to the methods described in the NJDEP *Field Sampling Procedures Manual* (1992). Sampling frequency and parameters analyzed complied with the NJDEP document, *Interim Closure Requirements for Underground Storage Tank Systems* (October 1990 and revisions dated November 1, 1991), which was the applicable regulation at the date of the closure. The Fort Monmouth DPW Environmental Office maintains all records of the Site Investigation activities.

The following Parties participated in Closure and Site Investigation Activities:

- Subsurface Evaluator: Frank Accorsi
Employer: TECOM-Vinell Services
Phone Number: (732) 532-2207
NJDEP Certification No.: 0010042
- Analytical Laboratory: U.S. Army Fort Monmouth Environmental laboratory
Contact Person: Daniel K. Wright
Phone Number: (908) 532-4359
NJDEP Company Certification No.: 13461
- Hazardous Waste Hauler: Casie Protank Environmental Services
Contact Person: David Strang
Phone Number: (609) 696-4401
NJDEP Company Certification No.: 16931

2.2 FIELD SCREENING/MONITORING

Field screening was performed by a NJDEP Certified Subsurface Evaluator using an OVA and visual observations to identify potentially contaminated material. Approximately 60 cubic yards of potentially petroleum-contaminated soils were removed from the excavation area and transported to the Fort Monmouth petroleum contaminated soil holding area.

2.3 SOIL SAMPLING

U.S. Army personnel performed the site assessment 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 NJDEP *Field Sampling Procedures Manual* (1992) standard sampling procedures. Following soil sampling activities, the samples were chilled and delivered to U.S. Army Fort Monmouth Environmental Laboratory located in

Fort Monmouth, New Jersey, for analysis. Each of the samples was analyzed for total solids, lead, and Volatile Organic Compounds (VOCs).

- On September 1, 1999, following the removal of the USTs and 60 cubic yards of potentially petroleum contaminated soil, post-excavation soil samples A, B, C, D, E, F, G, H, I, and DUP D were collected from nine (9) locations within the UST excavation area. Sidewall samples A, B, C, D, E, F, G, H, and DUP D were collected at a depth of 8.0 feet bgs. Sample I was collected along the centerline at a depth of 9.5 feet bgs.
- Between September 29, 1999, and October 4, 1999, nine (9) piping samples were collected along the former piping length of the excavation. These soil samples were designated PS-1 through PS-9. The samples were collected at a depth of 1.5-3.5 feet bgs.

2.4 GROUNDWATER SAMPLING

On September 1, 1999, Building 699 was sampled for VOCs calibrated for xylene plus 15 tentatively identified compounds (TICs), MTBE, TBA, and lead. Sampling and analysis were performed in accordance with the NJDEP *Field Sampling Procedures Manual* and the *Technical Requirements For Site Remediation*. Refer to Appendix F for the field sampling documentation.

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 SOIL SAMPLING RESULTS

To evaluate soil conditions following removal of the UST and associated soils, eighteen (18) post-excavation sample results were compared to NJDEP RDCSCC (N.J.A.C. 7:26D and revisions dated May 12, 1999). Summaries of analytical results for soils are presented in Tables 2 and 3 and the associated soil sampling locations are shown on Figure 3. The analytical data package is provided in Appendix E.

Excavation of potentially contaminated soil from the area surrounding the UST was performed between September 1, 1999, and October 4, 1999. Approximately 60 cubic yards of potentially contaminated soil were removed from the excavated area and stored at the Fort Monmouth petroleum contaminated soil staging area.

Analytical results of post-excavation soil samples collected between September 1, 1999, and October 4, 1999, indicated concentrations of benzene and xylenes which exceeded the NJDEP RDCSCC. All other samples contained either non-detectable concentrations of contaminants or concentrations of contaminants below the NJDEP RDCSCC.

3.2 GROUNDWATER SAMPLING RESULTS

The following groundwater analytical results above the New Jersey Ground Water Quality Criteria (GWQC) for MTBE, benzene, toluene, ethylbenzene, and xylenes:

- MTBE (GWQC = 70 ug/L) was detected at a concentration of 303.83 ug/L.
- Benzene (GWQC = 1.0 ug/L) was detected at a concentration of 729.61 ug/L.
- Toluene (GWQC = 1,000 ug/L) was detected at a concentration of 3,316.33 ug/L.
- Ethylbenzene (GWQC = 700 ug/L) was detected at a concentration of 886.90 ug/L.
- Xylenes (GWQC = 40 ug/L) were detected at a concentration of 8,068.37 ug/L.

A summary of the analytical results and comparison to the NJDEP groundwater cleanup criteria is provided in Table 4 and the groundwater sampling locations are shown on Figure 4. The analytical data package is provided in Appendix F.

3.3 CONCLUSIONS AND RECOMMENDATIONS

Based on the analytical results of the post-excavation soil samples collected between September 1, 1999, and October 4, 1999, soil quality at the Building 699 UST closure site exceeds the NJDEP RDCSCC for benzene and xylenes.

Based on the analytical results of the groundwater sample collected at Building 699 on September 1, 1999, groundwater quality at the Building 699 UST closure site exceeds the New Jersey Groundwater Quality Standard for MTBE, benzene, toluene, ethylbenzene, and xylenes.

Upon completion of the remedial work that was formulated in the RAWPSA, a summary of this work will be submitted in a report to the NJDEP. Should the proposed actions taken

from the RAWPSA indicate that the soil quality complies with the NJDEP soil cleanup criteria and the groundwater meets the GWQC, no further action will be proposed in regard to the closure and site assessment of UST Nos. 0081533-235 thru 238.

TABLES

TABLE 1

SUMMARY OF POST-EXCAVATION SAMPLING ACTIVITIES
BUILDING 699, MAIN POST-WEST AREA
FORT MONMOUTH, NEW JERSEY

Page 1 of 4

Sample ID	Date of Collection	Date Analysis Started	Matrix	Sample Type	Analytical Parameters	Sample Method
699A-North Wall 8.0-8.5' (E)	9/1/99	9/3/99	Soil	Post-Excavation	VOA+15,Lead	Scoop
699B-North Wall 8.0-8.5' (W)	9/1/99	9/3/99	Soil	Post-Excavation	VOA+15,Lead	Scoop
699C-West Wall 8.0-8.5' (N)	9/1/99	9/3/99	Soil	Post-Excavation	VOA+15,Lead	Scoop
699D-West Wall 8.0-8.5' (S)	9/1/99	9/3/99	Soil	Post-Excavation	VOA+15,Lead	Scoop
699E-South Wall 8.0-8.5' (W)	9/1/99	9/3/99	Soil	Post-Excavation	VOA+15,Lead	Scoop
699F-South Wall 8.0-8.5' (E)	9/1/99	9/3/99	Soil	Post-Excavation	VOA+15,Lead	Scoop
699G-East Wall 8.0-8.5' (S)	9/1/99	9/3/99	Soil	Post-Excavation	VOA+15,Lead	Scoop
699H-East Wall 8.0-8.5' (N)	9/1/99	9/3/99	Soil	Post-Excavation	VOA+15,Lead	Scoop
699I-Bottom 9.5-10.0'	9/1/99	9/3/99	Soil	Post-Excavation	VOA+15,Lead	Scoop
699D DUP	9/1/99	9/3/99	Soil	Post-Excavation	VOA+15,Lead	Scoop
699 GW	9/1/99	9/3/99	Aqueous	Post-Excavation	VOA+15,Lead	Scoop

Note:

VOA+15 – Volatile Organic Analysis + Library Search for 15 Tentatively Identified Compounds (TICs)

BGS – Below Ground Surface

DUP – Duplicate

TABLE 1

SUMMARY OF POST-EXCAVATION SAMPLING ACTIVITIES
BUILDING 699, MAIN POST-WEST AREA
FORT MONMOUTH, NEW JERSEY

Page 2 of 4

Sample ID	Date of Collection	Date Analysis Started	Matrix	Sample Type	Analytical Parameters	Sample Method
PS-1 3.5-4.0'	9/29/99	10/4/99	Soil	Post-Excavation	VOA +15,Lead	Scoop
PS-2 3.0-3.5'	9/29/99	10/4/99	Soil	Post-Excavation	VOA +15,Lead	Scoop
PS-3 2.5-3.0'	9/29/99	10/4/99	Soil	Post-Excavation	VOA +15,Lead	Scoop
Duplicate	9/29/99	10/4/99	Soil	Post-Excavation	VOA +15,Lead	Scoop
PS-4 2.5-3.0'	9/29/99	10/4/99	Soil	Post-Excavation	VOA +15,Lead	Scoop

Note:

PS – Piping Sample
VOA+15 – Volatile Organic Analysis + Library Search for 15 Tentatively Identified Compounds (TICs)
8.0-8.5' – Depth of Sample in feet below ground surface (bgs)
Duplicate – Duplicate of sample PS-3

TABLE 1

SUMMARY OF POST-EXCAVATION SAMPLING ACTIVITIES
BUILDING 699, MAIN POST-WEST AREA
FORT MONMOUTH, NEW JERSEY

Page 3 of 4

Sample ID	Date of Collection	Date Analysis Started	Matrix	Sample Type	Analytical Parameters	Sample Method
PS-5 3.0-3.5'	9/30/99	10/4/99	Soil	Post-Excavation	VOA+15,Lead	Scoop
PS-6 3.0-3.5'	9/30/99	10/4/99	Soil	Post-Excavation	VOA+15,Lead	Scoop
PS-6/Duplicate	9/30/99	10/4/99	Soil	Post-Excavation	VOA+15,Lead	Scoop

Note:

PS – Piping Sample
VOA+15 – Volatile Organic Analysis + Library Search for 15 Tentatively Identified Compounds (TICs)
8.0-8.5' – Depth of Sample in feet below ground surface (bgs)

TABLE 1

SUMMARY OF POST-EXCAVATION SAMPLING ACTIVITIES
BUILDING 699, MAIN POST-WEST AREA
FORT MONMOUTH, NEW JERSEY

Page 4 of 4

Sample ID	Date of Collection	Date Analysis Started	Matrix	Sample Type	Analytical Parameters	Sample Method
PS-7 2.5-3.0'	10/4/99	10/5/99	Soil	Post-Excavation	VOA + 15, Lead	Scoop
PS-8 1.5-2.0'	10/4/99	10/5/99	Soil	Post-Excavation	VOA + 15, Lead	Scoop
PS-8 Duplicate	10/4/99	10/5/99	Soil	Post-Excavation	VOA + 15, Lead	Scoop
PS-9 1.5-2.0'	10/4/99	10/5/99	Soil	Post-Excavation	VOA + 15, Lead	Scoop

Note:

PS - Piping Sample

VOA+15 - Volatile Organic Analysis + Library Search for 15 Tentatively Identified Compounds (TICs)

8.0-8.5' - Depth of Sample in feet below ground surface (bgs)

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL
BUILDING NO. 699
FORT MONMOUTH, NEW JERSEY

Sample ID (Abbreviated)	Laboratory I.D.	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes(Total)
UNITS:			mg/kg	mg/kg	mg/kg	mg/kg
NJDEP RDCSCC			3	1000	1000	410
A	4764.01	09/01/99	18	50 D	30	96 D
B	4764.02	09/01/99	8.2	89 D	30 D	213
C	4764.03	09/01/99	6.6	240 D	83 D	510 D
D	4764.04	09/01/99	0.29	22	18	46 D
E	4764.05	09/01/99	U	2.1	1.2	7.6
F	4764.06	09/01/99	U	0.4	.22 J	15.3 J
G	4764.07	09/01/99	9	8.7	82 D	237 D
H	4764.08	09/01/99	24 D	160 D	74 D	390 D
I	4764.09	09/01/99	0.53	3.3	2.1	9.4
DUP D	4764.09	09/01/99	0.37	21 D	26	167 D

Note:

Gray shading and **bold** indicates exceedance of NJDEP
Residential Direct Contact Soil Cleanup Criteria (RDCSCC).

Abbreviations:

mg/kg: Milligrams per Kilogram.
U: Compound searched for but not detected.
D: Result from dilution of sample.
J: Compound identified below detection limit.
DUP: Duplicate.

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL
BUILDING NO. 699
FORT MONMOUTH, NEW JERSEY

Sample ID (Abbreviated)	Laboratory I.D.	Sample Date	Benzene	2-Chloroethyl vinyl ether	Toluene	Ethylbenzene	Xylenes(Total)
UNITS			mg/kg		mg/kg	mg/kg	mg/kg
NJDEP RDCSCC			3	NLE	1000	1000	410
PS-1	4828.01	09/29/99	36 D	16	310 D	200 D	1280 D
PS-2	4828.02	09/29/99	35 D	15	310 D	240 D	1530 D
PS-3	4828.03	09/29/99	0.85	U	130	2.5	16.2
DUP PS-3	4828.04	09/29/99	U	U	2.5	2.1	11.7
PS-4	4828.05	09/29/99	7.1	3.0	80 D	150 D	580 D

Note:

Gray shading and **bold** indicates exceedance of NJDEP
Residential Direct Contact Soil Cleanup Criteria
(RDCSCC).

Abbreviations:

mg/kg: Milligrams per Kilogram.
NLE: No limit established.
U: Compound searched for but not detected.
D: Result from dilution of sample.
DUP: Duplicate.

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL
BUILDING NO. 699
FORT MONMOUTH, NEW JERSEY

Sample ID (Abbreviated)	Laboratory I.D.	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes(Total)
UNITS			mg/kg	mg/kg	mg/kg	mg/kg
NJDEP RDCSCC			3	1000	1000	410
PS-5	4834.01	09/30/99	3	1.5	97 D	466 D
PS-6	4834.02	09/30/99	2.7	1.6	120 D	532 D
DUP PS-6	4834.03	09/30/99	2.3	1.8	130 D	570 D

Note:

Gray shading and **bold** indicates exceedance of NJDEP
Residential Direct Contact Soil Cleanup Criteria (RDCSCC).

Abbreviations:

mg/kg: Milligrams per Kilogram.
D: Result from dilution of sample.
DUP: Duplicate.

TABLE 2

SUMMARY OF ANALYTICAL RESULTS FOR SOIL
BUILDING NO. 699
FORT MONMOUTH, NEW JERSEY

Sample ID (Abbreviated)	Laboratory I.D.	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes(Total)
UNITS:			mg/kg	mg/kg	mg/kg	mg/kg
NJDEP RDCSCC			3	1000	1000	410
PS-7	4838.01	10/04/99	7.5	29	260	1030 D
PS-8	4838.02	10/04/99	3.7	62	50	354
DUP PS-8	4838.03	10/04/99	4.3	63	57	410
PS-9	4838.04	10/04/99	U	3.9	32	205

Note:

Gray shading and **bold** indicates exceedance of NJDEP
Residential Direct Contact Soil Cleanup Criteria
(RDCSCC).

Abbreviations:

mg/kg: Milligrams per Kilogram.
U: Compound searched for but not detected.
D: Result from dilution of sample.
DUP: Duplicate.

TABLE 3

**SUMMARY OF ANALYTICAL RESULTS FOR LEAD
BUILDING 699
FORT MONMOUTH, NEW JERSEY**

Site: B699
Lab ID #: 4764.01-.10
Matrix: Soils

Sample Received: 09/01/99
Analysis Start: 09/07/99
Analysis Completed: 09/14/99

LABORATORY I.D. #	SAMPLE LOCATION	RESULT (mg/Kg)	RDCSCC (mg/Kg)
4764.01	699-A	ND	400
4764.02	699-B	ND	400
4764.03	699-C	ND	400
4764.04	699-D	ND	400
4764.05	699-E	ND	400
4764.06	699-F	ND	400
4764.07	699-G	ND	400
4764.08	699-H	ND	400
4764.09	699-I	ND	400
4764.10	699-DUP D	ND	400

Note:

mg/kg: Milligrams per Kilogram.

ND: Not Detected.

RDCSCC refers to the New Jersey Residential Direct Contact Soil Cleanup Criteria

TABLE 3

SUMMARY OF ANALYTICAL RESULTS FOR LEAD BUILDING 699 FORT MONMOUTH, NEW JERSEY

Site: B699
Lab ID #: 4828.01-.05
Matrix: Soils

Sample Received: 09/29/99
Analysis Start: 10/01/99
Analysis Completed: 10/01/99

LABORATORY I.D. #	SAMPLE LOCATION	RESULT (mg/Kg)	RDCSCC (mg/Kg)
4828.01	699-PS 1	ND	400
4828.02	699-PS 2	ND	400
4828.03	699-PS 3	ND	400
4828.04	699-DUP PS 3	ND	400
4828.05	699-PS 4	ND	400

Note:

mg/kg: Milligrams per Kilogram.

ND: Not Detected.

RDCSCC refers to the New Jersey Residential Direct Contact Soil Cleanup Criteria

TABLE 3

SUMMARY OF ANALYTICAL RESULTS FOR LEAD BUILDING 699 FORT MONMOUTH, NEW JERSEY

Site: B699

Lab ID #: 4834.01-.03

Matrix: Soils

Sample Received: 10/04/99

Analysis Start: 10/15/99

Analysis Completed: 10/15/99

LABORATORY I.D. #	SAMPLE LOCATION	RESULT (mg/Kg)	RDCSCC (mg/Kg)
4834.01	699-PS 5	ND	400
4834.02	699-PS 6	19.02	400
4834.03	699-DUP PS 6	ND	400

Note:

mg/kg: Milligrams per Kilogram.

ND: Not Detected.

RDCSCC refers to the New Jersey Residential Direct Contact Soil Cleanup Criteria

TABLE 3

SUMMARY OF ANALYTICAL RESULTS FOR LEAD BUILDING 699 FORT MONMOUTH, NEW JERSEY

Site: B699

Lab ID #: 4838.01-.04

Matrix: Soils

Sample Received: 10/05/99

Analysis Start: 10/15/99

Analysis Completed: 10/15/99

LABORATORY I.D. #	SAMPLE LOCATION	RESULT (mg/Kg)	RDCSCC (mg/Kg)
4838.01	699-PS 7	ND	400
4838.02	699-PS 8	37.17	400
4838.03	699-DUP PS 8	33.43	400
4838.04	699-PS 9	25.98	400

Note:

mg/kg: Milligrams per Kilogram.

ND: Not Detected.

RDCSCC refers to the New Jersey Residential Direct Contact Soil Cleanup Criteria

TABLE 4

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
BUILDING NO. 699
FORT MONMOUTH, NEW JERSEY

Sample ID	Sample Date	MTBE	Benzene	Toluene	Ethylbenzene	Total Xylenes	Lead
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NJDEP CRITERIA		70	1	1000	700	70	10
699 GW	09/01/99	303.83	729.61	3316.33	886.9	8068.37	0.035

Note:

Gray shading and **bold** indicates exceedance of New Jersey Ground Water Quality Criteria (GWQC) defined in NJAC 7:9-6. The criteria of 70 ug/L for total xylenes was established by the NJDEP as an interim groundwater criteria in June 1999.

Abbreviations:

MW: Monitoring Well.
ND: Not Detected.
ug/L: Micrograms per liter.

FIGURES

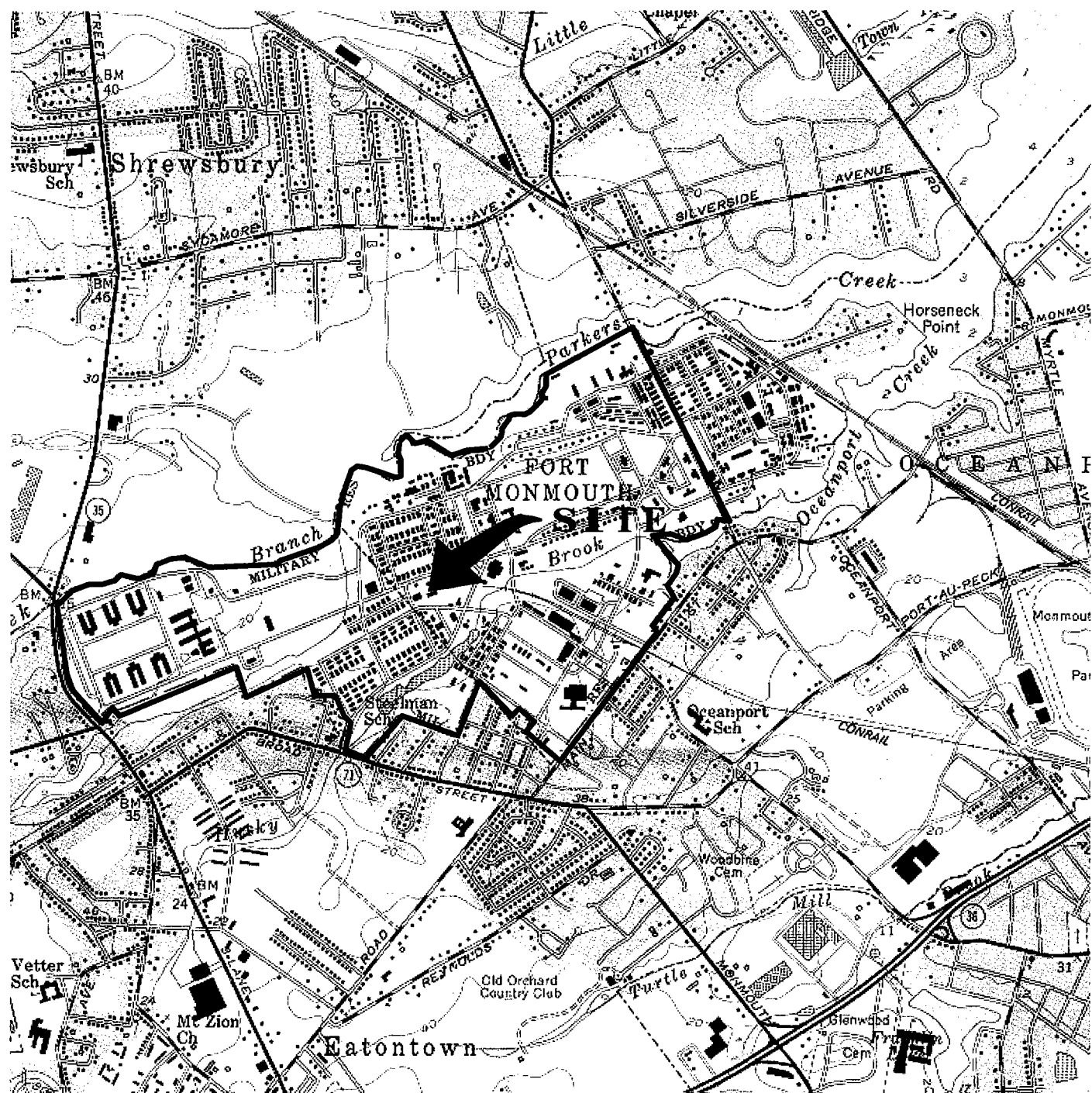


FIGURE 1

LOCATION MAP
 Building 699
 Main-Post West
 Fort Monmouth Army Base
 Monmouth County, NJ

VERSAR
 Engineers, Managers, Scientists, & Planners
 Bristol, PA

Scale: 1" = 2000'

Date: Sep. 1995

LONG BRANCH, N. J.

40073-C8-TF-024

1954

PHOTOREVISED 1981

DMA 6164 I SE-SERIES V822

NEW
JERSEY

QUADRANGLE LOCATION

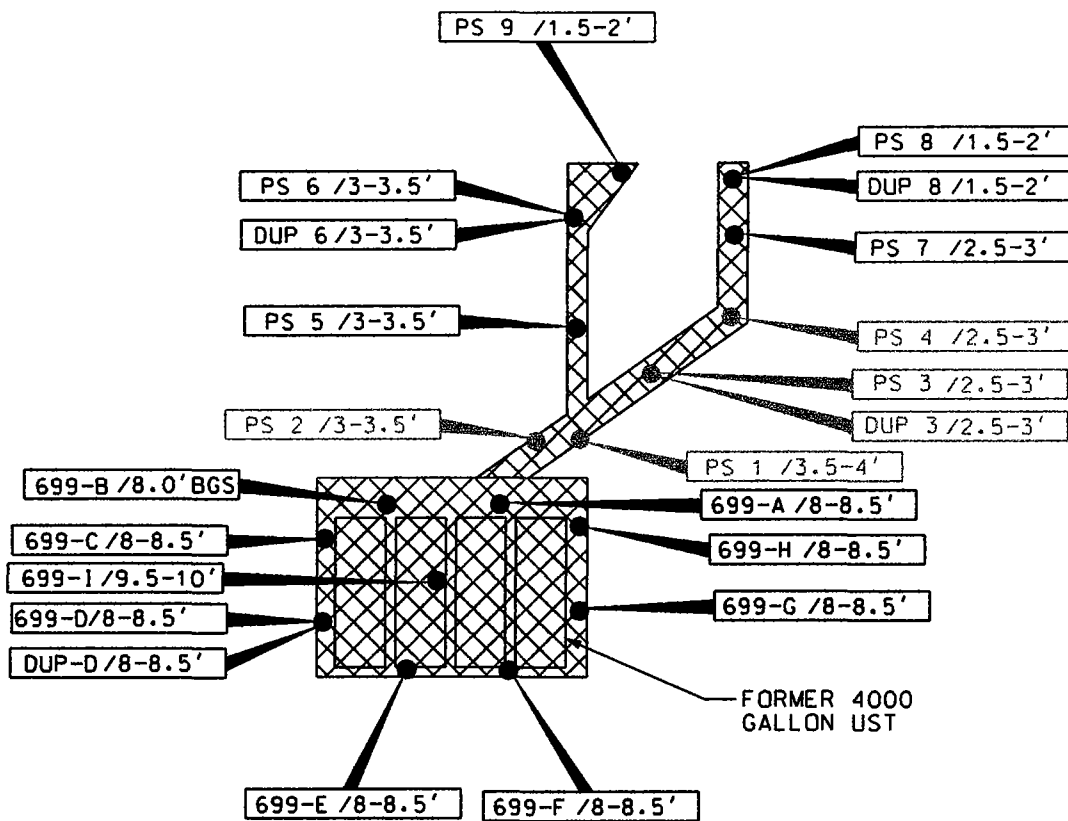


FIGURE 2
SITE MAP
BUILDING 699
FORT MONMOUTH ARMY BASE
MONMOUTH COUNTY, NJ

VERSAR
ENGINEERS, MANAGERS, SCIENTISTS & PLANNERS
BRISTOL, PA.

SCALE: 1"=100'

DATE: SEPTEMBER 1999



BUILDING
699

LEGEND

- SOIL SAMPLE LOCATION (SEPTEMBER 1, 1999)
- SOIL SAMPLE LOCATION (SEPTEMBER 29, 1999)
- SOIL SAMPLE LOCATION (SEPTEMBER 30, 1999)
- SOIL SAMPLE LOCATION (OCTOBER 4, 1999)
- ▨ LIMIT OF EXCAVATION (OCTOBER 4, 1999)

699-E /8-8.5' SAMPLE ID WITH DEPTH (FEET BGS)

NOTES:

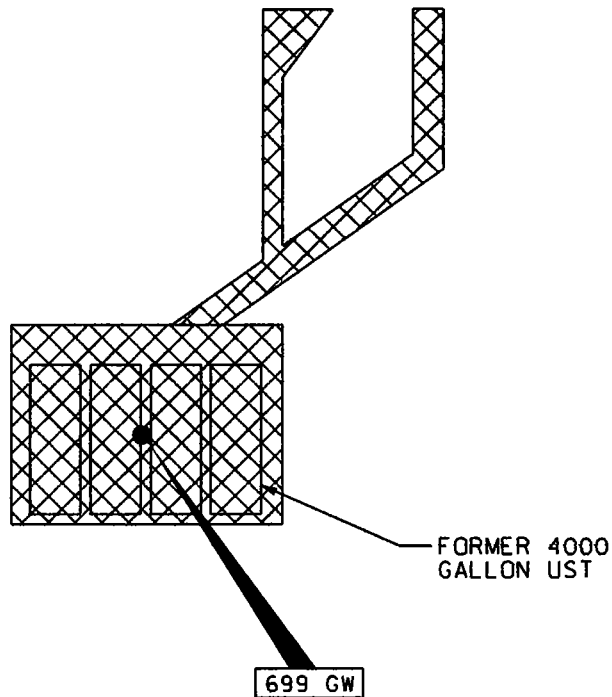
1. SEE TABLE 2 FOR RESULTS FOR VOLATILE ORGANIC COMPOUNDS (VOCs).
2. SEE TABLE 3 FOR RESULTS FOR LEAD
3. BGS = BELOW GROUND SURFACE

FIGURE 3
SOIL SAMPLING LOCATION MAP
BUILDING 699
FORT MONMOUTH ARMY BASE
MONMOUTH COUNTY, NJ

VERSAR
ENGINEERS, MANAGERS, SCIENTISTS & PLANNERS
BRISTOL, PA.

SCALE: 1" = 30'

DATE: SEPTEMBER 1999



BUILDING
699



LEGEND

- GROUNDWATER SAMPLE LOCATION
(SEPTEMBER 1, 1999)
- ▨ LIMIT OF EXCAVATION
(OCTOBER 4, 1999)
- 699 GW SAMPLE ID

NOTES:

1. SEE TABLE 4 FOR GROUNDWATER SAMPLE RESULTS

FIGURE 4
GROUNDWATER SAMPLING MAP
BUILDING 699
FORT MONMOUTH ARMY BASE
MONMOUTH COUNTY, NJ

VERSAR
ENGINEERS, MANAGERS, SCIENTISTS & PLANNERS
BRISTOL, PA.

SCALE: 1" = 30'

DATE: SEPTEMBER 1999

APPENDIX A

NJDEP-STANDARD REPORTING FORM

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF RESPONSIBLE PARTY SITE REMEDIATION
Underground Storage Tanks
Registration and Billing Unit
PO Box 028, Trenton, N.J. 08625-0028
1-609-633-0719

For State Use Only

Check in ___ Yes ___ No

Status

Active Inactive Comcode

UNDERGROUND STORAGE TANK
FACILITY CERTIFICATION QUESTIONNAIRE

FACILITY UST # 81533

Completion of this Registration Questionnaire will satisfy the registration requirements of the Underground Storage of Hazardous Substances Act N.J.S.A. 58:10A-21, and the Registration and Billing Regulations N.J.A.C. 7:14B-2.

Check appropriate box

- A. ☐ This is a registration of a proposed or newly installed underground storage tank. (This form must be filed at least 30 days prior to operation)
B. ☒ This is a registration of an existing underground storage tank not presently registered.
C. ☒ This is a correction or amendment to an existing facility registration.
D. ☐ There have been no changes to the facility registration since last submittal. (Go to certification page for signature)

If "C" is checked above, please check the appropriate type of change(s) below

- | | | |
|--|--|--|
| ☐ Facility Name and/or Address Change | ☐ Type of Product(s) Stored | ☐ Financial Responsibility Change |
| ☐ Owner Name and/or Address Change | ☐ Substantial Modification(s) | ☐ Sale or Transfer (Complete Section A, Questions 4,5,6 & Section B, 12D) |
| ☐ Facility Operator and/or Address Change | ☐ Tank(s) and/or Piping Changes | ☐ Other (please specify) |
| ☐ Owner Contact Person Change | ☒ Closure (Complete Section B Questions 1,4,5,11,12) | |

SECTION A - GENERAL FACILITY INFORMATION

1. Facility Name AAFE'S MAIN POST GAS STATION
2. Facility Location BUILDING 699
- NUMBER AND STREET
- 699 SALTZMAN AVENUE
- FORT MONMOUTH
- CITY OR MUNICIPALITY
- MONMOUTH NJ 07703
- COUNTY STATE ZIP CODE BLOCK LOT
3. Facility Operator
- Operator Address (if different than #2)
- PERSON OR TITLE PHONE NUMBER (INCLUDE AREA CODE AND EXT)
- NUMBER AND STREET
- CITY OR MUNICIPALITY
4. Tank Owner
5. Tank Owner Address
- NUMBER AND STREET
- CITY OR MUNICIPALITY
- STATE ZIP CODE
6. Contact Person
- (Tank Owner) PHONE NUMBER (INCLUDE AREA CODE AND EXT)
7. EPA ID#
8. Total number of regulated underground storage tanks at facility
- (Complete Section B for each tank)

9. Total Regulated underground storage capacity at facility (gallons) _____

10. Facility Type A. State C. County/Municipal E. Charitable/Public School G. Other
 B. Commercial/Industrial D. Federal F. Residential H. Farm (as defined in N.J.S.A. 54:4-23.1 et seq)

Note: The facility site plan must be submitted when registering any underground storage tank pursuant to N.J.A.C. 7:14B 2.2.

Section B - SPECIFIC TANK INFORMATION

ALL underground tanks, including those taken out of operation (UNLESS TANK WAS REMOVED FROM THE GROUND PRIOR TO 9/3/86) must be registered. Report all tank/piping status changes. **DO NOT MARK SHADED AREAS**

1. Tank Identification Number	TANK NO				TANK NO				TANK NO				TANK NO			
	0	2	3	5	0	2	3	6	0	2	3	7	0	2	3	8
2. CAS Number (hazardous substances only)																
3. Date Tanks Installed	Unknown				Unknown				Unknown				Unknown			
4. Tank Size (gallons)	4000				4000				4000				4000			
5. Tank Contents (Mark one "X" for each tank)																
A. Leaded gasoline	X				X				X				X			
B. Unleaded gasoline																
C. Alcohol enriched gasoline																
D. Light Diesel fuel (No. 1-D)																
E. Medium Diesel (No. 2-D)																
F. Waste Oil																
G. Kerosene (No. 1)																
H. Home Heating Oil (No. 2)																
J. Heating Oil (No. 4)																
K. Heavy Heating Oil (No. 6)																
L. Aviation fuel																
M. Motor oil																
N. Lubricating Oil																
P. Other hazardous substances (please specify)																
Q. Hazardous Waste (specify ID number)																
R. Mixtures (please specify)																
S. Emergency Spill tank (specify substance)																
T. Other petroleum products (please specify)																
U. Other (please specify)																
6. Tank and Piping Construction (Mark one for each tank. For piping mark material of construction & Pressurized (F) or Suction (G))	Tank		Piping		Tank		Piping		Tank		Piping		Tank		Piping	
A. Bare Steel																
B. Cathodically protected metal																
1. Sacrificial anode																
2. Impressed Current																
C. Fiberglass coated steel																
D. Fiberglass Reinforced Plastic																
E. Internally Lined (TANK ONLY)																
F. Pressurized Piping (PIPING ONLY)																
G. Suction Piping (PIPING ONLY)																
H. Other (please specify)																
J. Flex Piping (PIPING ONLY)																
7. Tank & Piping Structure (Mark one for each tank and piping)																
A. Single Walled																
B. Double Walled																
C. Other (please specify)																
8. Type of Monitoring/Detection (Mark all that apply for tank & piping)																
A. Statistical inventory reconciliation																
B. Manual tank gauging (TANK ONLY)																
C. Inventory Control (TANK ONLY)																
D. Interstitial																
E. Tightness test																
F. Ground water observation wells																
G. Vapor observation wells																
H. In tank (auto monitoring gauge) (TANK ONLY)																
J. "Safe" suction piping (PIPING ONLY) See definition page 4																
K. In-line electronic pressure monitor (PIPING ONLY) see definition page 4																
L. Automatic Line leak detector (PIPING ONLY)																
M. None (TANK & PIPING)																
N. Other (please specify)																

1. Tank Identification Number	TANK NO	TANK NO	TANK NO	TANK NO
9. Overfill protection (tank only) (Mark one X for each tank) A. Yes	0 2 3 5	0 2 3 6	0 2 3 7	0 2 3 8
B. No				
10. Spill containment around fill pipe (Mark one X for each tank) A. Yes				
B. No				
11. Tank Status (Mark one X for each tank system) A. In-use				
B. Empty less than 12 mos (complete 12B)				
C. Empty 12 mos or more (complete 12B)				
D. Sump (contains product no more than 48 Hours)				
E. Emergency back-up generator tank				
F. Abandoned in Place (Complete 12A)				
G. Removed (Complete 12C)	X	X	X	X
H. Other (please specify)				
12. Closure Information - Tank ID No.	TANK NO	TANK NO	TANK NO	TANK NO
A. Date abandoned in place	2 3 5	2 3 6	2 3 7	2 3 8
B. Date taken out of service				
C. Date removed	1972 9/1/99	1972 9/1/99	1972 9/1/99	1972 9/1/99
D. Date of sale or transfer				
E. Closure # (if applicable)				
F. ISRA # (if applicable)				
13. Is the tank within wellhead protection area as defined on pg. 4 (Mark one for each tank) A. Yes				
B. No	X	X	X	X

SECTION C - FINANCIAL RESPONSIBILITY

Does this facility have a Financial Responsibility Assurance Mechanism?
Please list the appropriate financial information below:

Yes No

Type	Carrier/Issuing Agency
Effective Date	Expiration Date
Policy Number	Amount

SECTION D - MONITORING SYSTEMS

Does this facility have a release detection monitoring system which is in compliance with N.J.A.C. 7:14B-6?
If "No", please be aware that the facility must meet the appropriate deadline. (See "Dates to Know" on Page 4)

Yes No

SECTION E - RECORD KEEPING / COMPLIANCE

Please answer all the questions in this section on a facility basis. Any one tank not in compliance requires a "NO" answer for the entire facility.

- Does this facility have cathodic protection systems for all steel tanks and piping? Yes No
If "Yes", answer the following
 - Are the systems tested every three years pursuant to N.J.A.C. 7:14B-5.2(a)? Yes No
 - For the sacrificial anode systems, were the systems tested within 180 days after installation? (N.J.A.C. 7:14B-5.2(a)) Yes No
 - For Impressed current systems, are the systems operational (turned on and providing continuous protection) pursuant to N.J.A.C. 7:14B-5.2(a)? Yes No
 - For Impressed current systems, are the systems tested properly every 60 days? (N.J.A.C. 7:14B-5.2(a)) Yes No
 - If internally lined, was the lining inspected within 10 years after installation & every 5 years thereafter? (N.J.A.C. 7:14B-4.2(b)) Yes No
- Are the performance claims and documentation of systems maintained by the owner or operator pursuant to N.J.A.C. 7:14B-6.7? Yes No
- Are the proper monitoring, testing, sampling, repair and inventory records kept on-site pursuant to N.J.A.C. 7:14B-5 and 6? Yes No
- Is the proper Release Response Plan kept on-site pursuant to N.J.A.C. 7:14B-5.5? Yes No
- Are the tanks checked monthly for the presence of water pursuant to N.J.A.C. 7:14B-6? Yes No
- Have all fill ports been permanently marked per API #1637 pursuant to N.J.A.C. 7:14B-5.8? Yes No
- Are the tank systems monitored for releases monthly or on an alternate required frequency pursuant to N.J.A.C. 7:14B-6? Yes No
- Are the release detection monitoring systems operating in accordance with the manufacturers requirements? (N.J.A.C. 7:14B-6) Yes No

NOTICE: *ALL DEADLINES FOR TANK SYSTEM UPGRADE (CORROSION PROTECTION, SPILL AND OVERFILL PROTECTION) AND LEAK DETECTION HAVE PAST

IMPORTANT INFORMATION

- FEE:** Please make all checks payable to: "Treasurer, State of New Jersey".
Registration and Billing Schedule can be found in N.J.A.C. 7:14B-3.
- PENALTY:** Failure by owner or operator of a regulated underground storage tank to comply with any requirements of the State UST Act or regulations may result in the penalties set forth in N.J.S.A. 58:10A-12.
- EMERGENCY:** If a discharge or spill occurs, the NJDEP Hotline at (609) 292-7172 must be called IMMEDIATELY - 24 hours a day.
- EXEMPTION:** Residential heating oil underground storage tanks are exempt from all underground storage tank requirements.

CERTIFICATION

Must be signed as follows:

- For a corporation, by a person authorized by resolution of the Board of Directors to sign the document.
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively.
- For a municipality, State, Federal or other public agency, by either a principal executive officer or ranking elected official.
- For persons other than indicated above, by the person with legal responsibility for the site.

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attached documents, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties."

James OTT

(Typed/Printed Name)

[Signature]

(Signature)

Director, Public Works

(Title)

1/16/01

(Date)

DEFINITIONS

- Section B8 J.** 'Safe' Suction Piping - Suction Piping which has enough slope so that the product in the pipe can drain back into the tank when the suction is released, and which has only one check valve, located directly beneath the pump in the dispensing unit.
- Section B8 K.** In-Line Electronic Pressure Monitor - (Used with pressurized piping only) A monitor which checks for loss of pressure in piping when no product is dispensed. This method may be used once every 30 days or every time the dispenser turns off.
- Section B8 L.** Automatic Line Leak Detectors - (Required with pressurized piping - Must be able to detect a 3 gph leak within 1 hour of its occurrence)
1. Flow restrictors and flow shut offs which monitor pressure within piping and when a suspected leak is detected, either restricts the flow of product through the piping well below the 3 gph leak rate it detects, or completely cuts off product flow and shuts down the pump.
 2. Continuous alarm systems constantly monitor piping conditions and trigger an audible or visual alarm if a leak is suspected.
- Section B 13 Wellhead Protection Area -**
1. The area within a 2,000 ft. radius surrounding a public community or public non-community water system well when there is an underground storage tank containing gasoline or non-petroleum hazardous substances located within that area.
 2. The area within a 750 ft. radius surrounding a public community or public non-community water system well when there is an underground storage tank containing petroleum products other than gasoline located within that area.

PUBLICATIONS AVAILABLE (on line or call for Copies)

Straight Talk on Tanks (Release Detection Requirements)
Doing Inventory Control Right
Underground Storage Tank Owner's Self Inspection Checklist

Don't Wait Until 1998 (Upgrade requirements)
Manual Tank Gauging

WEBSITE ADDRESS: WWW.STATE.NJ.US/DEP/SRP/BUST

Telephone Number: (609) 292-8761

APPENDIX B

SITE ASSESSMENT SUMMARY

Site Remediation Program

UST Site/Remedial Investigation Report Certification Form

A. Facility Name : U.S. Army Fort Monmouth New JerseyFacility Street Address : Directorate of Public Works Building 173Municipality: Oceanport County : MonmouthBlock: _____ Lot(s): _____ Telephone Number : 732-532-6224**B. Owner (RP)'s Name:** _____

Street Address: _____ City : _____

State: _____ Zip: _____ Telephone Number : _____

C. (Check as appropriate)

- ☐ Site Investigation
Report (SIR) \$500 Fee
- ☐ Remedial Investigation
Report (RIR) \$1000 Fee
- ☒ NA – Federal
Agreement

D. (Complete all that apply)

- Assigned Case Manager : Ian Curtis, Federal Case Manager
- UST Registration Number : 81533-235 through 238 (7 digits)
- Incident Report Number 89 – 10 – 19 – 1329 (10 or 12 digits)

- Tank Closure Number : Federal Case Manager

E. Certification by the Subsurface Evaluator:

The attached report conforms to the specific reporting requirements of N.J.A.C. 7:26EYes No

Name: Frank Accorsi Signature: _____ UST Cert. No.: 10042Firm: U.S. Army Fort Monmouth Firm's UST Cert. Number: NA-U.S. ArmyFirm Address: Directorate of Public Works Building 173 City: Fort MonmouthState: NJ Zip: 07703 Telephone Number : 732-532-6224

(NOTE: Certification numbers required only if work was conducted on USTs regulated per N.J.S.A. 58:10A-21 et seq.)

F. Certification by the Responsible Party(ies) of the Facility:

The following certification shall be signed [according to the requirements of N.J.A.C. 7:14B-1.7(b)] as follows:

1. For a Corporation by a person authorized by a resolution of the board of directors to sign the document. A copy of the resolution, certified as a true copy by the secretary of the corporation, shall be submitted along with the certification; or
2. For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
3. For a municipality, State, federal or other public agency by either a principal executive officer or ranking elected Official.

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attached documents, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate, or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties."

Name (Print or Type): James Ott Title: Directorate of Public Works

Signature: _____

Company Name: U.S. Army Fort Monmouth

Date: _____

APPENDIX C
WASTE MANIFEST

CASIE / PROTANK

ENVIRONMENTAL SERVICES

Please type or print in block letters. (Form designed for use on 8 1/2" (12-pitch) typewriter.)

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. EXEMPT- - - - - 34755		2. Page 1 of 1	
3. Generator's Name and Mailing Address Gas Station Saltmar Ave. Fort Monmouth NJ		A. Non-hazardous Manifest Document Number NHZ020 37630		B. State Generator's ID SAME	
4. Generator's Phone (732) 542-5997		C. State Trans. ID		D. Transporter's Phone (609) 696-4401	
5. Transporter 1 Company Name Casie Ecology Oil Salvage, Inc. N J D O 4 5 9 9 5 6 9 3		6. US EPA ID Number		E. State Trans. ID	
7. Transporter 2 Company Name		8. US EPA ID Number		F. Transporter's Phone ()	
9. Designated Facility Name and Site Address Casie Ecology Oil Salvage, Inc. T/A 3209 N. Mill Rd / Casie Protank Vineland NJ 08350 N J D O 4 5 9 9 5 6 9 3		10. US EPA ID Number		G. State Facility ID 0514018P05	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No. Type		13. Total Quantity	
a. Flammable liquids, n.o.s. (Gasoline) 3, UN1993, III		0 0 1 T T		2850	
b.				G I D 7 2	
c.					
d.					
J. Additional Descriptions for Materials Listed Above (L,I)		K. Handling Codes for Wastes Listed Above Filter H SD 2			
a.		b.			
b.		c.			
15. Special Handling Instructions and Additional Information a. ERG# 128 b. 24 hr emergency response #609-696-4401 K. Ambrosia					
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. I hereby certify that the above-named material is not hazardous waste as defined by 40 CFR Part 261, 264 and 279 or any applicable state law.					
Printed/Typed Name FRANK ACCORSI FOR TVS		Signature <i>Frank Accorsi</i>		Month Day Year 08 27 99	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name DAVID STRANG		Signature <i>David Strang</i>		Month Day Year 08 27 99	
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 non-hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name <i>Da</i> Morris					
Signature <i>Da</i>		Signature <i>Morris</i>		Month Day Year 08 27 99	

2-TRANSPORTER 1 COPY

SIGNATURE AND INFORMATION MUST BE LEGIBLE ON ALL COPIES

APPENDIX D

UST DISPOSAL CERTIFICATE

THIS CHECK IS DELIVERED FOR PAYMENT ON THE FOLLOWING ACCOUNTS.	
DATE	AMOUNT
Scrap steel	
TOTAL OF INVOICES	
LESS % DISCOUNT	
LESS FREIGHT	
LESS	
TOTAL DEDUCTIONS	
AMOUNT OF CHECK	

RECYCLING TECHNOLOGIES CENTER INC.

RECYCLING DIVISION
P.O. BOX 246
OAKHURST, NJ 07755

2810

55-7233/2212

PAY TO THE ORDER OF

DATE 8/30

Tecom Vinnell
fifty five and 20/100

\$ 55.20

DOLLARS



Sovereign Bank

"Success is confidence. We can help you get there."™

[Signature]

⑈002810⑈

⑆221272332⑆

1091099286⑈

THIS CHECK IS DELIVERED FOR PAYMENT ON THE FOLLOWING ACCOUNTS.	
DATE	AMOUNT
Scrap steel	
TOTAL OF INVOICES	
LESS % DISCOUNT	
LESS FREIGHT	
LESS	
TOTAL DEDUCTIONS	
AMOUNT OF CHECK	

RECYCLING TECHNOLOGIES CENTER INC.

RECYCLING DIVISION
P.O. BOX 246
OAKHURST, NJ 07755

2815

55-7233/2212

PAY TO THE ORDER OF

DATE 8/31

Tecom Vinnell
two hundred sixty seven and 60/100

\$ 267.60

DOLLARS



Sovereign Bank

"Success is confidence. We can help you get there."™

[Signature]

⑈002815⑈

⑆221272332⑆

1091099286⑈

Metal Recyclers
3230 Shafto Rd.
Tinton Falls, NJ
(732) 922-9292

DATE. 30.2.99

Address _____

2760

Customer

RECYCLING TECHNOLOGY CENTER, INC.

Metal Recyclers
3230 Shafto Rd.
Tinton Falls, NJ
(732) 922-9292

NO. 264

DATE, 8.31.99

Customer's Name Tecom Vinnell

Address

	Weight	Price
--	--------	-------

Cast Iron

22740 LB

Steel

56.80

Lt. Iron

19900 LB

Copper #1

2840

Copper #2

	Weight	Price
--	--------	-------

Lt. Copper

Brass

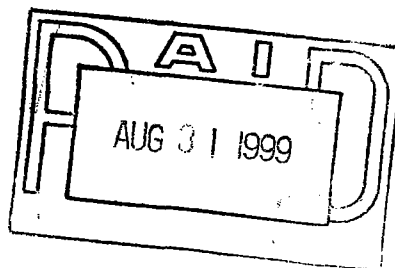
Alum Clean

Lead

Stainless

Battery

TOTAL AMOUNT:



Weigher _____ Customer BTG LLC

Customer

RECYCLING TECHNOLOGY CENTER, INC.

Metal Recyclers
3230 Shafto Rd.
Tinton Falls, NJ
(732) 922-9292

NO. _____

DATE 31 Aug 79

Customer's Name Team Vignelli

Address _____

Weight Price

Cast Iron

Steel

40.80

21720 LB

Lt. Iron

Copper #1

19680 LB

Copper #2

2040

Weight Price

Lt. Copper

Brass

Alum Clean

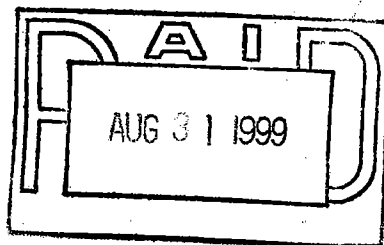
Lead

Stainless

Battery

40.80

TOTAL AMOUNT:



Weigher _____ Customer [Signature]

T7

RECYCLING TECHNOLOGY CENTER, INC.

Metal Recyclers
3230 Shafto Rd.
Tinton Falls, NJ
(732) 922-9292

NO. 295

DATE 31 Aug 99

Customer's Name Tecumseh Vinnell

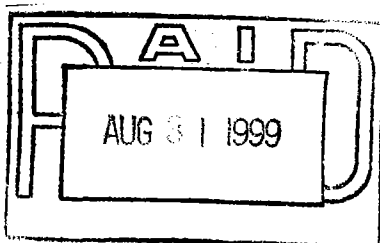
Address _____

	Weight	Price
Cast Iron		
Steel		
	3160	
Lt. Iron		
Copper #1		
Copper #2		

14220 LB

12640 LB

1,580



	Weight	Price
Lt. Copper		
Brass		
Alum Clean		
Lead		
Stainless		
Battery		

TOTAL AMOUNT:

3160

Weigher _____ Customer [Signature]

RECYCLING TECHNOLOGY CENTER, INC.

Metal Recyclers
3230 Shafto Rd.
Tinton Falls, NJ
(732) 922-9292

NO. 295

DATE 8 31 99

Customer's Name TECOM VANDER

Address _____

Weight Price

Cast Iron

Steel 38.80

Lt. Iron

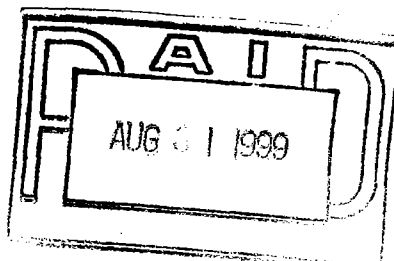
Copper #1

Copper #2

14380 LB

12440 LB

1940



Weight Price

Lt. Copper

Brass

Alum Clean

Lead

Stainless

Battery

TOTAL AMOUNT:

\$ 38.80

Weigher _____ Customer [Signature]

T/10

RECYCLING TECHNOLOGY CENTER, INC.

Metal Recyclers
3230 Shafter Rd.
Tinton Falls, NJ
(732) 922-9292

NO. 295

DATE 8-31-99

Customer's Name Tecom Vinyl Services

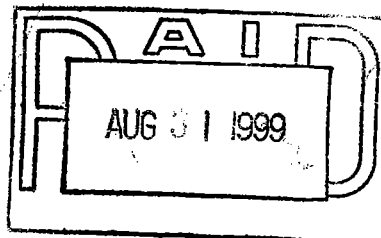
Address _____

	Weight	Price
Cast Iron		
Steel		
	31.20	
Lt. Iron		
Copper #1		
Copper #2		

14000 LB

12440 LB

1560



	Weight	Price
Lt. Copper		
Brass		
Alum Clean		
Lead		
Stainless		
Battery		

TOTAL AMOUNT: 31.20

Weigher _____ Customer [Signature]

RECYCLING TECHNOLOGY CENTER, INC.

Metal Recyclers
3230 Shafto Rd.
Tinton Falls, NJ
(732) 922-9292

NO. 024

DATE 8-31-99

Customer's Name Teresa Vinnell

Address _____

Weight Price

Cast Iron

Steel

35.20

Lt. Iron

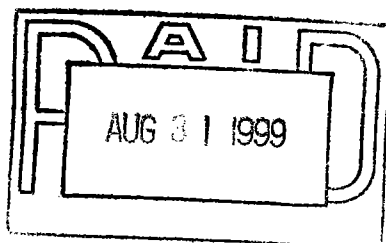
Copper #1

Copper #2

21700 LB

19940 LB

1760



Weight Price

Lt. Copper

Brass

Alum Clean

Lead

Stainless

Battery

\$ 35.20

TOTAL AMOUNT:

Weigher _____

Customer [Signature]

T8

RECYCLING TECHNOLOGY CENTER, INC.

Metal Recyclers
3230 Shafto Rd.
Tinton Falls, NJ
(732) 922-9292

NO. 264

DATE 8-31-99

Customer's Name Tecom Vinnell

Address

	Weight	Price
Cast Iron		

Steel		
-------	--	--

Lt. Iron	33.00	
----------	-------	--

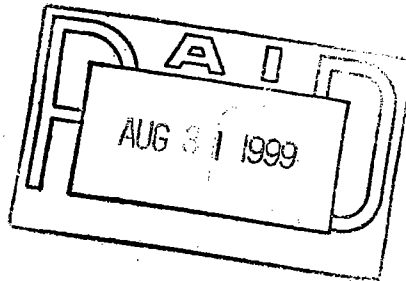
Copper #1		
-----------	--	--

Copper #2		
-----------	--	--

21400 LB

19740 LB

1660



	Weight	Price
Lt. Copper		

Brass		
-------	--	--

Alum Clean		
------------	--	--

Lead		
------	--	--

Stainless		
-----------	--	--

Battery		
---------	--	--

TOTAL AMOUNT:	33.00	
---------------	-------	--

Weigher Customer [Signature]

T10

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS

PHONE: (732) 532-6224 FAX: (732) 532-6263

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

CERTIFICATIONS: NJDEP #13461, NYSDOH #11699



ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: IJO# 99-0094/UST

Bldg. 699/Saltzman Ave.

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
699A-North Wall 8.0-8.5' (E)	4764.01	Soil	01-Sept-99 09:15	09/01/99
699B-North Wall 8.0-8.5' (W)	4764.02	Soil	01-Sept-99 09:00	09/01/99
699C-West Wall 8.0-8.5' (N)	4764.03	Soil	01-Sept-99 09:35	09/01/99
699D-West Wall 8.0-8.5' (S)	4764.04	Soil	01-Sept-99 09:45	09/01/99
699E-South Wall 8.0-8.5' (W)	4764.05	Soil	01-Sept-99 11:20	09/01/99
699F-South Wall 8.0-8.5' (E)	4764.06	Soil	01-Sept-99 11:40	09/01/99
699G-East Wall 8.0-8.5' (S)	4764.07	Soil	01-Sept-99 12:00	09/01/99
699H-East Wall 8.0-8.5' (N)	4764.08	Soil	01-Sept-99 09:25	09/01/99
699I-Bottom 9.5-10.0'	4764.09	Soil	01-Sept-99 10:00	09/01/99
699D DUP.	4764.10	Soil	01-Sept-99 09:45	09/01/99
699 GW	4764.11	Aqueous	01-Sept-99 12:10	09/01/99
Trip Blank	4764.12	Methanol	01-Sept-99	09/01/99

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
VOA+15, LEAD, %SOLIDS

ENCLOSURE:
CHAIN OF CUSTODY
RESULTS

 9/16/99
Daniel Wright/Date
Laboratory Director

CHAIN OF CUSTODY

Fort Monmouth Environmental Testing Laboratory

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

Tel (732)532-4359 Fax (732)532-6263 EMail:appleby@mail1.monmouth.army.mil

NJDEP Certification #13461

Chain of Custody Record

Customer: Charles Appleby		Project No: 99-00080094		Analysis Parameters				Comments:			
Phone #: X26224		Location: <i>BLOG. 699 SALTZMAN AVE.</i>		TPHC Pb	% SOLIDS	VOA+10	VOA ID Number	PID Reading	* = Samples Kept <4 Celsius		
() DERA (X) OMA UST Assessment		UST#							Remarks / Preservation Method		
Samplers Name / Company : Frank Accorsi/TVS				Sample #							
Lab Sample I.D.	Sample Location	Date	Type	bottles							
4764 01	699A- NORTH WALL 8.0-8.5 FT (S)	9-1-99	0915	SOIL	2	X	X	X	736	430	ICE
02	699B- NORTH WALL (W) 8.0-8.5 FT		0900			X	X	X	737	420	
03	699C- WEST WALL (W) 8.0-8.5 FT		0935			X	X	X	738	510	
04	699D- WEST WALL (S) 8.0-8.5 FT		0945			X	X	X	739	430	
05	699E- SOUTH WALL (W) 8.0-8.5 FT		1120			X	X	X	746	36	
06	699F- SOUTH WALL (E) 8.0-8.5 FT		1140			X	X	X	741	20	
07	699G- EAST WALL (S) 8.0-8.5 FT		1200			X	X	X	742	280	
08	699H- EAST WALL (W) 8.0-8.5 FT		0925			X	X	X	743	350	
09	699I- BOTTOM 9.5-10.0 FT	1000	0945			X	X	X	740	20	
10	699D- DUPLICATE		0945	✓	✓	X	X	X	744	430	
11	699- 6W		1210	AQ	4	X	X	X	-	-	*
12	TRIP BLANK	✓	-	✓	1			X	745	-	✓
OVM sn#580U-64455.343 was calibrated with zero air & w/245 ppm Isobutylene read 245 ppm. 0900 9-1-99 FA (time/date & initial)											
Relinquished by (signature):		Date/Time:		Received by (signature):		Relinquished by (signature):		Date/Time:		Received by (signature):	
<i>Frank Accorsi</i>		9-1-99 1306		<i>[Signature]</i>							
Relinquished by (signature):		Date/Time:		Received by (signature):		Relinquished by (signature):		Date/Time:		Received by (signature):	
Report Type: () Full, () Reduced, (X) Standard, () Screen / non-certified						Remarks: * HOLD GW ANALYSIS UNTIL APPROVED BY C. APPLEBY All sample points have been GPS? (X) YES () NO () NA					
Turn in time: (X) Standard 4 wks, () Rush Days, () ASAP Verbal Hrs.						Dedicated Sampling Tools Used					

Method Summary

EPA Method 624 – Aqueous Gas Chromatographic Determination of Volatiles in Water

A 5 ml volume of sample is added to 5 ml aliquot of water. Surrogates and internal standards are added and the sample is placed on a purge and trap concentrator. The sample is purged and desorbed into a GC/MS system. Volatiles are then identified and quantitated.

EPA SW-846 Method 8260 Gas Chromatographic Determination of Volatiles in Soil

A 50ul volume of methanol soil sample is added to 5 ml aliquot of water. Surrogates and internal standards are added and the sample is placed on a purge and trap concentrator. The sample is purged and desorbed into a GC/MS system. Volatiles are identified and quantitated. The final concentration is calculated using soil weight, percent moisture, methanol volume and concentration.

VOLATILES

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

Data File **VC000746.D**
 Operator **Skelton**
 Date Acquired **3 Sep 1999 11:07 am**

Sample Name **Vblk25**
 Field ID **Vblk25**
 Sample Multiplier **1**

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

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7-9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

Vblk25

Lab Name: FMETL NJDEP # 13461
Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: Vblk25
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC000746.D
Level: (low/med) LOW Date Received: 9/1/99
% Moisture: not dec. _____ Date Analyzed: 9/3/99
GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 0

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

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

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

Data File **VC000761.D**
 Operator **Skelton**
 Date Acquired **3 Sep 1999 9:38 pm**

Sample Name **4764.11**
 Field ID **699-GW**
 Sample Multiple **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	11.81	38860025	234.41 ug/L	nle	0.16 ug/L	E
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene	18.66	58711716	205.21 ug/L	1	0.23 ug/L	E
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene	23.65	67761507	200.64 ug/L	1000	0.37 ug/L	E
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene	27.48	53941716	144.67 ug/L	700	0.65 ug/L	E
1330-20-7	m+p-Xylenes	27.64	59879447	388.63 ug/L	nle	1.14 ug/L	E
1330-20-7	o-Xylene	28.78	52526900	189.81 ug/L	nle	0.62 ug/L	E
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

699-GW

Lab Name: FMETL NJDEP # 13461
 Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.:
 Matrix: (soil/water) WATER Lab Sample ID: 4764.11
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC000761.D
 Level: (low/med) LOW Date Received: 9/1/99
 % Moisture: not dec. Date Analyzed: 9/3/99
 GC Column: Rtx502.2 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: 10

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000100-61-8	Aniline, N-methyl-	27.70	1000	JN
2. 000103-65-1	Benzene, propyl-	30.62	180	JN
3.	unknown	30.86	710	J
4.	unknown	31.94	650	J
5.	unknown	33.04	320	J
6.	unknown	33.56	230	J
7.	unknown	33.78	250	J
8.	unknown	34.27	94	J
9.	unknown	34.45	150	J
10.	unknown	34.95	91	J

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

Data File **VC000762.D**
 Operator **Skelton**
 Date Acquired **3 Sep 1999 10:19 pm**

Sample Name **4764.11**
 Field ID **699-GW**
 Sample Multiplier **10**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	18.50 ug/L	
107131	Acrylonitrile			not detected	50	27.80 ug/L	
75650	tert-Butyl alcohol			not detected	nle	85.20 ug/L	
1634044	Methyl-tert-Butyl ether	11.83	4939746	303.83 ug/L	nle	1.60 ug/L	D
108203	Di-isopropyl ether			not detected	nle	2.50 ug/L	
	Dichlorodifluoromethane			not detected	nle	16.80 ug/L	
74-87-3	Chloromethane			not detected	30	11.60 ug/L	
75-01-4	Vinyl Chloride			not detected	5	10.60 ug/L	
74-83-9	Bromomethane			not detected	10	11.00 ug/L	
75-00-3	Chloroethane			not detected	nle	10.10 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	5.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	2.40 ug/L	
67-64-1	Acetone			not detected	700	13.60 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	4.60 ug/L	
75-09-2	Methylene Chloride			not detected	2	2.40 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	1.60 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	1.20 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	7.80 ug/L	
78-93-3	2-Butanone			not detected	300	6.20 ug/L	
	cis-1,2-Dichloroethene			not detected	10	1.70 ug/L	
67-66-3	Chloroform			not detected	6	3.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	2.30 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	4.70 ug/L	
71-43-2	Benzene	18.61	20712014	729.61 ug/L	1	2.30 ug/L	D
107-06-2	1,2-Dichloroethane			not detected	2	1.80 ug/L	
79-01-6	Trichloroethene			not detected	1	2.30 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	4.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	5.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	6.50 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	6.90 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	5.90 ug/L	
108-88-3	Toluene	23.66	46242230	1380.00 ug/L	1000	3.70 ug/L	E D
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	8.70 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	4.80 ug/L	
127-18-4	Tetrachloroethene			not detected	1	3.20 ug/L	
591-78-6	2-Hexanone			not detected	nle	7.10 ug/L	
126-48-1	Dibromochloromethane			not detected	10	8.60 ug/L	
108-90-7	Chlorobenzene			not detected	4	3.90 ug/L	
100-41-4	Ethylbenzene	27.47	32749913	886.90 ug/L	700	6.50 ug/L	D
1330-20-7	m+p-Xylenes	27.69	40715242	2668.27 ug/L	nle	11.40 ug/L	E D
1330-20-7	o-Xylene	28.76	34196045	1247.74 ug/L	nle	6.20 ug/L	E D
100-42-5	Styrene			not detected	100	5.60 ug/L	
75-25-2	Bromoform			not detected	4	7.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	4.70 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	5.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	5.70 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	6.40 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

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

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

Data File **VC000763.D**
 Operator **Skelton**
 Date Acquired **3 Sep 1999 11:00 pm**

Sample Name **4764.11**
 Field ID **699-GW**
 Sample Multiplier **50**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	92.50 ug/L	
107131	Acrylonitrile			not detected	50	139.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	426.00 ug/L	
1634044	Methyl-tert-Butyl ether	11.83	1055743	326.82 ug/L	nle	8.00 ug/L	D
108203	Di-isopropyl ether			not detected	nle	12.50 ug/L	
	Dichlorodifluoromethane			not detected	nle	84.00 ug/L	
74-87-3	Chloromethane			not detected	30	58.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	53.00 ug/L	
74-83-9	Bromomethane			not detected	10	55.00 ug/L	
75-00-3	Chloroethane			not detected	nle	50.50 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	25.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	12.00 ug/L	
67-64-1	Acetone			not detected	700	68.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	23.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	12.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	8.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	6.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	39.00 ug/L	
78-93-3	2-Butanone			not detected	300	31.00 ug/L	
	cis-1,2-Dichloroethene			not detected	10	8.50 ug/L	
67-66-3	Chloroform			not detected	6	15.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	11.50 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	23.50 ug/L	
71-43-2	Benzene	18.61	4855433	868.51 ug/L	1	11.50 ug/L	D
107-06-2	1,2-Dichloroethane			not detected	2	9.00 ug/L	
79-01-6	Trichloroethene			not detected	1	11.50 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	20.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	27.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	32.50 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	34.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	29.50 ug/L	
108-88-3	Toluene	23.63	21884650	3316.33 ug/L	1000	18.50 ug/L	D
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	43.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	24.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	16.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	35.50 ug/L	
126-48-1	Dibromochloromethane			not detected	10	43.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	19.50 ug/L	
100-41-4	Ethylbenzene	27.47	10656721	1453.59 ug/L	700	32.50 ug/L	D
1330-20-7	m+p-Xylenes	27.67	17891343	5905.68 ug/L	nle	57.00 ug/L	D
1330-20-7	o-Xylene	28.76	11767737	2162.69 ug/L	nle	31.00 ug/L	D
100-42-5	Styrene			not detected	100	28.00 ug/L	
75-25-2	Bromoform			not detected	4	35.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	23.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	27.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	28.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	32.00 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6.2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

Vblk25

Lab Name: FMETL NJDEP # 13461
 Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: Vblk25
 Sample wt/vol: 10.0 (g/ml) G Lab File ID: VC000746.D
 Level: (low/med) MED Date Received: 9/1/99
 % Moisture: not dec. 0 Date Analyzed: 9/3/99
 GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein		1800	U
107131	Acrylonitrile		1800	U
75650	tert-Butyl alcohol		3200	U
1634044	Methyl-tert-Butyl ether		750	U
108203	Di-isopropyl ether		500	U
	Dichlorodifluoromethane		1000	U
74-87-3	Chloromethane		250	U
75-01-4	Vinyl Chloride		750	U
74-83-9	Bromomethane		500	U
75-00-3	Chloroethane		750	U
75-69-4	Trichlorofluoromethane		500	U
75-35-4	1,1-Dichloroethene		250	U
67-64-1	Acetone		500	U
75-15-0	Carbon Disulfide		250	U
75-09-2	Methylene Chloride		500	U
156-60-5	trans-1,2-Dichloroethene		500	U
75-35-3	1,1-Dichloroethane		250	U
108-05-4	Vinyl Acetate		750	U
78-93-3	2-Butanone		750	U
	cis-1,2-Dichloroethene		250	U
67-66-3	Chloroform		250	U
75-55-6	1,1,1-Trichloroethane		250	U
56-23-5	Carbon Tetrachloride		500	U
71-43-2	Benzene		250	U
107-06-2	1,2-Dichloroethane		500	U
79-01-6	Trichloroethene		250	U
78-87-5	1,2-Dichloropropane		250	U
75-27-4	Bromodichloromethane		250	U
110-75-8	2-Chloroethyl vinyl ether		500	U
10061-01-5	cis-1,3-Dichloropropene		250	U
108-10-1	4-Methyl-2-Pentanone		500	U
108-88-3	Toluene		250	U
10061-02-6	trans-1,3-Dichloropropene		500	U
79-00-5	1,1,2-Trichloroethane		500	U
127-18-4	Tetrachloroethene		250	U
591-78-6	2-Hexanone		500	U
126-48-1	Dibromochloromethane		500	U
108-90-7	Chlorobenzene		250	U
100-41-4	Ethylbenzene		500	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

Vblk25

Lab Name: FMETL NJDEP # 13461
 Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: Vblk25
 Sample wt/vol: 10.0 (g/ml) G Lab File ID: VC000746.D
 Level: (low/med) MED Date Received: 9/1/99
 % Moisture: not dec. 0 Date Analyzed: 9/3/99
 GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
1330-20-7	m+p-Xylenes		750	U
1330-20-7	o-Xylene		500	U
100-42-5	Styrene		500	U
75-25-2	Bromoform		500	U
79-34-5	1,1,2,2-Tetrachloroethane		500	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

Vbik25

Lab Name: FMETL NJDEP # 13461
Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.:
Matrix: (soil/water) SOIL Lab Sample ID: Vbik25
Sample wt/vol: 10.0 (g/ml) G Lab File ID: VC000746.D
Level: (low/med) MED Date Received: 9/1/99
% Moisture: not dec. 0 Date Analyzed: 9/3/99
GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 0

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

Vblk128

Lab Name: FMETL NJDEP # 13461
 Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.:
 Matrix: (soil/water) SOIL Lab Sample ID: Vblk128
 Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004228.D
 Level: (low/med) MED Date Received: 9/1/99
 % Moisture: not dec. 0 Date Analyzed: 9/7/99
 GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein		1800	U
107131	Acrylonitrile		1800	U
75650	tert-Butyl alcohol		3200	U
1634044	Methyl-tert-Butyl ether		750	U
108203	Di-isopropyl ether		500	U
	Dichlorodifluoromethane		1000	U
74-87-3	Chloromethane		250	U
75-01-4	Vinyl Chloride		750	U
74-83-9	Bromomethane		500	U
75-00-3	Chloroethane		750	U
75-69-4	Trichlorofluoromethane		500	U
75-35-4	1,1-Dichloroethene		250	U
67-64-1	Acetone		500	U
75-15-0	Carbon Disulfide		250	U
75-09-2	Methylene Chloride		500	U
156-60-5	trans-1,2-Dichloroethene		500	U
75-35-3	1,1-Dichloroethane		250	U
108-05-4	Vinyl Acetate		750	U
78-93-3	2-Butanone		750	U
	cis-1,2-Dichloroethene		250	U
67-66-3	Chloroform		250	U
75-55-6	1,1,1-Trichloroethane		250	U
56-23-5	Carbon Tetrachloride		500	U
71-43-2	Benzene		250	U
107-06-2	1,2-Dichloroethane		500	U
79-01-6	Trichloroethene		250	U
78-87-5	1,2-Dichloropropane		250	U
75-27-4	Bromodichloromethane		250	U
110-75-8	2-Chloroethyl vinyl ether		500	U
10061-01-5	cis-1,3-Dichloropropene		250	U
108-10-1	4-Methyl-2-Pentanone		500	U
108-88-3	Toluene		250	U
10061-02-6	trans-1,3-Dichloropropene		500	U
79-00-5	1,1,2-Trichloroethane		500	U
127-18-4	Tetrachloroethene		250	U
591-78-6	2-Hexanone		500	U
126-48-1	Dibromochloromethane		500	U
108-90-7	Chlorobenzene		250	U
100-41-4	Ethylbenzene		500	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

Vblk128

Lab Name: FMETL NJDEP # 13461
 Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.:
 Matrix: (soil/water) SOIL Lab Sample ID: Vblk128
 Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004228.D
 Level: (low/med) MED Date Received: 9/1/99
 % Moisture: not dec. 0 Date Analyzed: 9/7/99
 GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
1330-20-7	m+p-Xylenes		750	U
1330-20-7	o-Xylene		500	U
100-42-5	Styrene		500	U
75-25-2	Bromoform		500	U
79-34-5	1,1,2,2-Tetrachloroethane		500	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

Vblk128

Lab Name: FMETL NJDEP # 13461
Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____
Matrix: (soil/water) SOIL Lab Sample ID: Vblk128
Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004228.D
Level: (low/med) MED Date Received: 9/1/99
% Moisture: not dec. 0 Date Analyzed: 9/7/99
GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

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

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

Trip Blank

Lab Name: FMETL NJDEP # 13461

Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 4764.12

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004237.D

Level: (low/med) MED Date Received: 9/1/99

% Moisture: not dec. 0 Date Analyzed: 9/7/99

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein		1800	U
107131	Acrylonitrile		1800	U
75650	tert-Butyl alcohol		3200	U
1634044	Methyl-tert-Butyl ether		750	U
108203	Di-isopropyl ether		500	U
	Dichlorodifluoromethane		1000	U
74-87-3	Chloromethane		250	U
75-01-4	Vinyl Chloride		750	U
74-83-9	Bromomethane		500	U
75-00-3	Chloroethane		750	U
75-69-4	Trichlorofluoromethane		500	U
75-35-4	1,1-Dichloroethene		250	U
67-64-1	Acetone		500	U
75-15-0	Carbon Disulfide		250	U
75-09-2	Methylene Chloride		500	U
156-60-5	trans-1,2-Dichloroethene		500	U
75-35-3	1,1-Dichloroethane		250	U
108-05-4	Vinyl Acetate		750	U
78-93-3	2-Butanone		750	U
	cis-1,2-Dichloroethene		250	U
67-66-3	Chloroform		250	U
75-55-6	1,1,1-Trichloroethane		250	U
56-23-5	Carbon Tetrachloride		500	U
71-43-2	Benzene		250	U
107-06-2	1,2-Dichloroethane		500	U
79-01-6	Trichloroethene		250	U
78-87-5	1,2-Dichloropropane		250	U
75-27-4	Bromodichloromethane		250	U
110-75-8	2-Chloroethyl vinyl ether		500	U
10061-01-5	cis-1,3-Dichloropropene		250	U
108-10-1	4-Methyl-2-Pentanone		500	U
108-88-3	Toluene		250	U
10061-02-6	trans-1,3-Dichloropropene		500	U
79-00-5	1,1,2-Trichloroethane		500	U
127-18-4	Tetrachloroethene		250	U
591-78-6	2-Hexanone		500	U
126-48-1	Dibromochloromethane		500	U
108-90-7	Chlorobenzene		250	U
100-41-4	Ethylbenzene		500	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

Trip Blank

Lab Name: FMETL NJDEP # 13461

Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4764.12

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004237.D

Level: (low/med) MED Date Received: 9/1/99

% Moisture: not dec. 0 Date Analyzed: 9/7/99

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
1330-20-7	m+p-Xylenes		750	U
1330-20-7	o-Xylene		500	U
100-42-5	Styrene		500	U
75-25-2	Bromoform		500	U
79-34-5	1,1,2,2-Tetrachloroethane		500	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

Trip Blank

Lab Name: FMETL NJDEP # 13461
Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____
Matrix: (soil/water) SOIL Lab Sample ID: 4764.12
Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004237.D
Level: (low/med) MED Date Received: 9/1/99
% Moisture: not dec. 0 Date Analyzed: 9/7/99
GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 0

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

699A

Lab Name: FMETL NJDEP # 13461
 Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.:
 Matrix: (soil/water) SOIL Lab Sample ID: 4764.01
 Sample wt/vol: 10.2 (g/ml) G Lab File ID: VC000750.D
 Level: (low/med) MED Date Received: 9/1/99
 % Moisture: not dec. 19 Date Analyzed: 9/3/99
 GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein		2100	U
107131	Acrylonitrile		2100	U
75650	tert-Butyl alcohol		3900	U
1634044	Methyl-tert-Butyl ether		910	U
108203	Di-isopropyl ether		610	U
	Dichlorodifluoromethane		1200	U
74-87-3	Chloromethane		300	U
75-01-4	Vinyl Chloride		910	U
74-83-9	Bromomethane		610	U
75-00-3	Chloroethane		910	U
75-69-4	Trichlorofluoromethane		610	U
75-35-4	1,1-Dichloroethene		300	U
67-64-1	Acetone		610	U
75-15-0	Carbon Disulfide		300	U
75-09-2	Methylene Chloride		610	U
156-60-5	trans-1,2-Dichloroethene		610	U
75-35-3	1,1-Dichloroethane		300	U
108-05-4	Vinyl Acetate		910	U
78-93-3	2-Butanone		910	U
	cis-1,2-Dichloroethene		300	U
67-66-3	Chloroform		300	U
75-55-6	1,1,1-Trichloroethane		300	U
56-23-5	Carbon Tetrachloride		610	U
71-43-2	Benzene		18000	
107-06-2	1,2-Dichloroethane		610	U
79-01-6	Trichloroethene		300	U
78-87-5	1,2-Dichloropropane		300	U
75-27-4	Bromodichloromethane		300	U
110-75-8	2-Chloroethyl vinyl ether		610	U
10061-01-5	cis-1,3-Dichloropropene		300	U
108-10-1	4-Methyl-2-Pentanone		610	U
108-88-3	Toluene		50000	E
10061-02-6	trans-1,3-Dichloropropene		610	U
79-00-5	1,1,2-Trichloroethane		610	U
127-18-4	Tetrachloroethene		300	U
591-78-6	2-Hexanone		610	U
126-48-1	Dibromochloromethane		610	U
108-90-7	Chlorobenzene		300	U
100-41-4	Ethylbenzene		30000	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

699A

Lab Name: FMETL NJDEP # 13461

Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4764.01

Sample wt/vol: 10.2 (g/ml) G Lab File ID: VC000750.D

Level: (low/med) MED Date Received: 9/1/99

% Moisture: not dec. 19 Date Analyzed: 9/3/99

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
1330-20-7	m+p-Xylenes		95000	E
1330-20-7	o-Xylene		44000	E
100-42-5	Styrene		610	U
75-25-2	Bromoform		610	U
79-34-5	1,1,2,2-Tetrachloroethane		610	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

699A

Lab Name: FMETL NJDEP # 13461
 Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4764.01
 Sample wt/vol: 10.2 (g/ml) G Lab File ID: VC000750.D
 Level: (low/med) MED Date Received: 9/1/99
 % Moisture: not dec. 19 Date Analyzed: 9/3/99
 GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 15

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 002216-34-4	Octane, 4-methyl-	25.64	69000	JN
2.	unknown	25.97	50000	J
3. 000111-84-2	Nonane	26.99	33000	JN
4. 000098-82-8	Benzene, (1-methylethyl)-	29.64	30000	JN
5. 000103-65-1	Benzene, propyl-	30.62	45000	JN
6.	unknown	30.85	180000	J
7. 000611-14-3	Benzene, 1-ethyl-2-methyl-	31.00	78000	JN
8. 000526-73-8	Benzene, 1,2,3-trimethyl-	31.61	60000	JN
9.	unknown	31.93	160000	J
10. 000095-63-6	Benzene, 1,2,4-trimethyl-	33.04	56000	JN
11.	unknown	33.38	59000	J
12.	unknown	33.56	85000	J
13. 000496-11-7	Indane	33.77	38000	JN
14. 000933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	34.19	30000	JN
15.	unknown	34.44	46000	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

699A DL

Lab Name: FMETL NJDEP # 13461

Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4764.01

Sample wt/vol: 10.2 (g/ml) G Lab File ID: VB004229.D

Level: (low/med) MED Date Received: 9/1/99

% Moisture: not dec. 19 Date Analyzed: 9/7/99

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein		21000	U
107131	Acrylonitrile		21000	U
75650	tert-Butyl alcohol		39000	U
1634044	Methyl-tert-Butyl ether		9100	U
108203	Di-isopropyl ether		6100	U
	Dichlorodifluoromethane		12000	U
74-87-3	Chloromethane		3000	U
75-01-4	Vinyl Chloride		9100	U
74-83-9	Bromomethane		6100	U
75-00-3	Chloroethane		9100	U
75-69-4	Trichlorofluoromethane		6100	U
75-35-4	1,1-Dichloroethene		3000	U
67-64-1	Acetone		6100	U
75-15-0	Carbon Disulfide		3000	U
75-09-2	Methylene Chloride		6100	U
156-60-5	trans-1,2-Dichloroethene		6100	U
75-35-3	1,1-Dichloroethane		3000	U
108-05-4	Vinyl Acetate		9100	U
78-93-3	2-Butanone		9100	U
	cis-1,2-Dichloroethene		3000	U
67-66-3	Chloroform		3000	U
75-55-6	1,1,1-Trichloroethane		3000	U
56-23-5	Carbon Tetrachloride		6100	U
71-43-2	Benzene		7300	D
107-06-2	1,2-Dichloroethane		6100	U
79-01-6	Trichloroethene		3000	U
78-87-5	1,2-Dichloropropane		3000	U
75-27-4	Bromodichloromethane		3000	U
110-75-8	2-Chloroethyl vinyl ether		6100	U
10061-01-5	cis-1,3-Dichloropropene		3000	U
108-10-1	4-Methyl-2-Pentanone		6100	U
108-88-3	Toluene		54000	D
10061-02-6	trans-1,3-Dichloropropene		6100	U
79-00-5	1,1,2-Trichloroethane		6100	U
127-18-4	Tetrachloroethene		3000	U
591-78-6	2-Hexanone		6100	U
126-48-1	Dibromochloromethane		6100	U
108-90-7	Chlorobenzene		3000	U
100-41-4	Ethylbenzene		14000	D

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

699A DL

Lab Name: FMETL NJDEP # 13461

Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4764.01

Sample wt/vol: 10.2 (g/ml) G Lab File ID: VB004229.D

Level: (low/med) MED Date Received: 9/1/99

% Moisture: not dec. 19 Date Analyzed: 9/7/99

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	66000	D
1330-20-7	o-Xylene	30000	D
100-42-5	Styrene	6100	U
75-25-2	Bromoform	6100	U
79-34-5	1,1,2,2-Tetrachloroethane	6100	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

699B

Lab Name: FMETL NJDEP # 13461
 Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.:
 Matrix: (soil/water) SOIL Lab Sample ID: 4764.02
 Sample wt/vol: 10.5 (g/ml) G Lab File ID: VC000751.D
 Level: (low/med) MED Date Received: 9/1/99
 % Moisture: not dec. 13.13 Date Analyzed: 9/3/99
 GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein	1900		U
107131	Acrylonitrile	1900		U
75650	tert-Butyl alcohol	3600		U
1634044	Methyl-tert-Butyl ether	820		U
108203	Di-isopropyl ether	550		U
	Dichlorodifluoromethane	1100		U
74-87-3	Chloromethane	270		U
75-01-4	Vinyl Chloride	820		U
74-83-9	Bromomethane	550		U
75-00-3	Chloroethane	820		U
75-69-4	Trichlorofluoromethane	550		U
75-35-4	1,1-Dichloroethene	270		U
67-64-1	Acetone	550		U
75-15-0	Carbon Disulfide	270		U
75-09-2	Methylene Chloride	550		U
156-60-5	trans-1,2-Dichloroethene	550		U
75-35-3	1,1-Dichloroethane	270		U
108-05-4	Vinyl Acetate	820		U
78-93-3	2-Butanone	820		U
	cis-1,2-Dichloroethene	270		U
67-66-3	Chloroform	270		U
75-55-6	1,1,1-Trichloroethane	270		U
56-23-5	Carbon Tetrachloride	550		U
71-43-2	Benzene	8200		
107-06-2	1,2-Dichloroethane	550		U
79-01-6	Trichloroethene	270		U
78-87-5	1,2-Dichloropropane	270		U
75-27-4	Bromodichloromethane	270		U
110-75-8	2-Chloroethyl vinyl ether	550		U
10061-01-5	cis-1,3-Dichloropropene	270		U
108-10-1	4-Methyl-2-Pentanone	550		U
108-88-3	Toluene	41000		E
10061-02-6	trans-1,3-Dichloropropene	550		U
79-00-5	1,1,2-Trichloroethane	550		U
127-18-4	Tetrachloroethene	270		U
591-78-6	2-Hexanone	550		U
126-48-1	Dibromochloromethane	550		U
108-90-7	Chlorobenzene	270		U
100-41-4	Ethylbenzene	28000		E

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

699B

Lab Name: FMETL NJDEP # 13461
 Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.:
 Matrix: (soil/water) SOIL Lab Sample ID: 4764.02
 Sample wt/vol: 10.5 (g/ml) G Lab File ID: VC000751.D
 Level: (low/med) MED Date Received: 9/1/99
 % Moisture: not dec. 13.13 Date Analyzed: 9/3/99
 GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	85000	E
1330-20-7	o-Xylene	40000	E
100-42-5	Styrene	550	U
75-25-2	Bromoform	550	U
79-34-5	1,1,2,2-Tetrachloroethane	550	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

699B

Lab Name: FMETL NJDEP # 13461

Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4764.02

Sample wt/vol: 10.5 (g/ml) G Lab File ID: VC000751.D

Level: (low/med) MED Date Received: 9/1/99

% Moisture: not dec. 13.13 Date Analyzed: 9/3/99

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 10

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 002216-34-4	Octane, 4-methyl-	25.64	70000	JN
2.	unknown	25.97	54000	J
3.	unknown	30.86	190000	J
4. 000526-73-8	Benzene, 1,2,3-trimethyl-	31.00	83000	JN
5. 000098-82-8	Benzene, (1-methylethyl)-	31.61	70000	JN
6.	unknown	31.94	160000	J
7. 000108-67-8	Benzene, 1,3,5-trimethyl-	33.04	62000	JN
8.	unknown	33.38	58000	J
9.	unknown	33.55	84000	J
10.	unknown	34.45	46000	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

699B DL

Lab Name: FMETL NJDEP # 13461

Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 4764.02

Sample wt/vol: 10.5 (g/ml) G Lab File ID: VB004230.D

Level: (low/med) MED Date Received: 9/1/99

% Moisture: not dec. 13.13 Date Analyzed: 9/7/99

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein	19000	U	U
107131	Acrylonitrile	19000	U	U
75650	tert-Butyl alcohol	36000	U	U
1634044	Methyl-tert-Butyl ether	8200	U	U
108203	Di-isopropyl ether	5500	U	U
	Dichlorodifluoromethane	11000	U	U
74-87-3	Chloromethane	2700	U	U
75-01-4	Vinyl Chloride	8200	U	U
74-83-9	Bromomethane	5500	U	U
75-00-3	Chloroethane	8200	U	U
75-69-4	Trichlorofluoromethane	5500	U	U
75-35-4	1,1-Dichloroethene	2700	U	U
67-64-1	Acetone	5500	U	U
75-15-0	Carbon Disulfide	2700	U	U
75-09-2	Methylene Chloride	5500	U	U
156-60-5	trans-1,2-Dichloroethene	5500	U	U
75-35-3	1,1-Dichloroethane	2700	U	U
108-05-4	Vinyl Acetate	8200	U	U
78-93-3	2-Butanone	8200	U	U
	cis-1,2-Dichloroethene	2700	U	U
67-66-3	Chloroform	2700	U	U
75-55-6	1,1,1-Trichloroethane	2700	U	U
56-23-5	Carbon Tetrachloride	5500	U	U
71-43-2	Benzene	3700	D	D
107-06-2	1,2-Dichloroethane	5500	U	U
79-01-6	Trichloroethene	2700	U	U
78-87-5	1,2-Dichloropropane	2700	U	U
75-27-4	Bromodichloromethane	2700	U	U
110-75-8	2-Chloroethyl vinyl ether	5500	U	U
10061-01-5	cis-1,3-Dichloropropene	2700	U	U
108-10-1	4-Methyl-2-Pentanone	5500	U	U
108-88-3	Toluene	89000	D	D
10061-02-6	trans-1,3-Dichloropropene	5500	U	U
79-00-5	1,1,2-Trichloroethane	5500	U	U
127-18-4	Tetrachloroethene	2700	U	U
591-78-6	2-Hexanone	5500	U	U
126-48-1	Dibromochloromethane	5500	U	U
108-90-7	Chlorobenzene	2700	U	U
100-41-4	Ethylbenzene	30000	D	D

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

699B DL

Lab Name: FMETL NJDEP # 13461

Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4764.02

Sample wt/vol: 10.5 (g/ml) G Lab File ID: VB004230.D

Level: (low/med) MED Date Received: 9/1/99

% Moisture: not dec. 13.13 Date Analyzed: 9/7/99

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	150000	D
1330-20-7	o-Xylene	63000	D
100-42-5	Styrene	5500	U
75-25-2	Bromoform	5500	U
79-34-5	1,1,2,2-Tetrachloroethane	5500	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

699C

Lab Name: FMETL NJDEP # 13461
 Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.:
 Matrix: (soil/water) SOIL Lab Sample ID: 4764.03
 Sample wt/vol: 10.6 (g/ml) G Lab File ID: VC000752.D
 Level: (low/med) MED Date Received: 9/1/99
 % Moisture: not dec. 21.6 Date Analyzed: 9/3/99
 GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein		2100	U
107131	Acrylonitrile		2100	U
75650	tert-Butyl alcohol		3900	U
1634044	Methyl-tert-Butyl ether		910	U
108203	Di-isopropyl ether		610	U
	Dichlorodifluoromethane		1200	U
74-87-3	Chloromethane		300	U
75-01-4	Vinyl Chloride		910	U
74-83-9	Bromomethane		610	U
75-00-3	Chloroethane		910	U
75-69-4	Trichlorofluoromethane		610	U
75-35-4	1,1-Dichloroethene		300	U
67-64-1	Acetone		610	U
75-15-0	Carbon Disulfide		300	U
75-09-2	Methylene Chloride		610	U
156-60-5	trans-1,2-Dichloroethene		610	U
75-35-3	1,1-Dichloroethane		300	U
108-05-4	Vinyl Acetate		910	U
78-93-3	2-Butanone		910	U
	cis-1,2-Dichloroethene		300	U
67-66-3	Chloroform		300	U
75-55-6	1,1,1-Trichloroethane		300	U
56-23-5	Carbon Tetrachloride		610	U
71-43-2	Benzene		6600	
107-06-2	1,2-Dichloroethane		610	U
79-01-6	Trichloroethene		300	U
78-87-5	1,2-Dichloropropane		300	U
75-27-4	Bromodichloromethane		300	U
110-75-8	2-Chloroethyl vinyl ether		610	U
10061-01-5	cis-1,3-Dichloropropene		300	U
108-10-1	4-Methyl-2-Pentanone		610	U
108-88-3	Toluene		50000	E
10061-02-6	trans-1,3-Dichloropropene		610	U
79-00-5	1,1,2-Trichloroethane		610	U
127-18-4	Tetrachloroethene		300	U
591-78-6	2-Hexanone		610	U
126-48-1	Dibromochloromethane		610	U
108-90-7	Chlorobenzene		300	U
100-41-4	Ethylbenzene		34000	E

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

699C

Lab Name: FMETL NJDEP # 13461

Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4764.03

Sample wt/vol: 10.6 (g/ml) G Lab File ID: VC000752.D

Level: (low/med) MED Date Received: 9/1/99

% Moisture: not dec. 21.6 Date Analyzed: 9/3/99

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	100000	E
1330-20-7	o-Xylene	47000	E
100-42-5	Styrene	610	U
75-25-2	Bromoform	610	U
79-34-5	1,1,2,2-Tetrachloroethane	610	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

699C

Lab Name: FMETL NJDEP # 13461
 Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.:
 Matrix: (soil/water) SOIL Lab Sample ID: 4764.03
 Sample wt/vol: 10.6 (g/ml) G Lab File ID: VC000752.D
 Level: (low/med) MED Date Received: 9/1/99
 % Moisture: not dec. 21.6 Date Analyzed: 9/3/99
 GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 10

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 002216-34-4	Octane, 4-methyl-	25.64	83000	JN
2.	unknown	25.97	67000	J
3. 000103-65-1	Benzene, propyl-	30.62	61000	JN
4.	unknown	30.86	250000	J
5.	column bleed	31.00	110000	J
6. 000611-14-3	Benzene, 1-ethyl-2-methyl-	31.61	100000	JN
7.	unknown	31.94	200000	J
8. 000526-73-8	Benzene, 1,2,3-trimethyl-	33.04	89000	JN
9.	unknown	33.38	68000	J
10. 021195-59-5	1,3,8-p-Menthatriene	33.56	100000	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

699C DL

Lab Name: FMETL NJDEP # 13461

Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 4764.03

Sample wt/vol: 10.6 (g/ml) G Lab File ID: VB004231.D

Level: (low/med) MED Date Received: 9/1/99

% Moisture: not dec. 21.6 Date Analyzed: 9/7/99

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein	21000		U
107131	Acrylonitrile	21000		U
75650	tert-Butyl alcohol	39000		U
1634044	Methyl-tert-Butyl ether	9100		U
108203	Di-isopropyl ether	6100		U
	Dichlorodifluoromethane	12000		U
74-87-3	Chloromethane	3000		U
75-01-4	Vinyl Chloride	9100		U
74-83-9	Bromomethane	6100		U
75-00-3	Chloroethane	9100		U
75-69-4	Trichlorofluoromethane	6100		U
75-35-4	1,1-Dichloroethene	3000		U
67-64-1	Acetone	6100		U
75-15-0	Carbon Disulfide	3000		U
75-09-2	Methylene Chloride	6100		U
156-60-5	trans-1,2-Dichloroethene	6100		U
75-35-3	1,1-Dichloroethane	3000		U
108-05-4	Vinyl Acetate	9100		U
78-93-3	2-Butanone	9100		U
	cis-1,2-Dichloroethene	3000		U
67-66-3	Chloroform	3000		U
75-55-6	1,1,1-Trichloroethane	3000		U
56-23-5	Carbon Tetrachloride	6100		U
71-43-2	Benzene	3500		D
107-06-2	1,2-Dichloroethane	6100		U
79-01-6	Trichloroethene	3000		U
78-87-5	1,2-Dichloropropane	3000		U
75-27-4	Bromodichloromethane	3000		U
110-75-8	2-Chloroethyl vinyl ether	6100		U
10061-01-5	cis-1,3-Dichloropropene	3000		U
108-10-1	4-Methyl-2-Pentanone	6100		U
108-88-3	Toluene	240000		D
10061-02-6	trans-1,3-Dichloropropene	6100		U
79-00-5	1,1,2-Trichloroethane	6100		U
127-18-4	Tetrachloroethene	3000		U
591-78-6	2-Hexanone	6100		U
126-48-1	Dibromochloromethane	6100		U
108-90-7	Chlorobenzene	3000		U
100-41-4	Ethylbenzene	83000		D

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

699C DL

Lab Name: FMETL NJDEP # 13461

Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4764.03

Sample wt/vol: 10.6 (g/ml) G Lab File ID: VB004231.D

Level: (low/med) MED Date Received: 9/1/99

% Moisture: not dec. 21.6 Date Analyzed: 9/7/99

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	360000	D
1330-20-7	o-Xylene	150000	D
100-42-5	Styrene	6100	U
75-25-2	Bromoform	6100	U
79-34-5	1,1,2,2-Tetrachloroethane	6100	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

699D

Lab Name: FMETL NJDEP # 13461

Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4764.04

Sample wt/vol: 10.7 (g/ml) G Lab File ID: VC000753.D

Level: (low/med) MED Date Received: 9/1/99

% Moisture: not dec. 20.02 Date Analyzed: 9/3/99

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein	2100		U
107131	Acrylonitrile	2100		U
75650	tert-Butyl alcohol	3800		U
1634044	Methyl-tert-Butyl ether	880		U
108203	Di-isopropyl ether	590		U
	Dichlorodifluoromethane	1200		U
74-87-3	Chloromethane	290		U
75-01-4	Vinyl Chloride	880		U
74-83-9	Bromomethane	590		U
75-00-3	Chloroethane	880		U
75-69-4	Trichlorofluoromethane	590		U
75-35-4	1,1-Dichloroethene	290		U
67-64-1	Acetone	590		U
75-15-0	Carbon Disulfide	290		U
75-09-2	Methylene Chloride	590		U
156-60-5	trans-1,2-Dichloroethene	590		U
75-35-3	1,1-Dichloroethane	290		U
108-05-4	Vinyl Acetate	880		U
78-93-3	2-Butanone	880		U
	cis-1,2-Dichloroethene	290		U
67-66-3	Chloroform	290		U
75-55-6	1,1,1-Trichloroethane	290		U
56-23-5	Carbon Tetrachloride	590		U
71-43-2	Benzene	290		
107-06-2	1,2-Dichloroethane	590		U
79-01-6	Trichloroethene	290		U
78-87-5	1,2-Dichloropropane	290		U
75-27-4	Bromodichloromethane	290		U
110-75-8	2-Chloroethyl vinyl ether	590		U
10061-01-5	cis-1,3-Dichloropropene	290		U
108-10-1	4-Methyl-2-Pentanone	590		U
108-88-3	Toluene	22000		
10061-02-6	trans-1,3-Dichloropropene	590		U
79-00-5	1,1,2-Trichloroethane	590		U
127-18-4	Tetrachloroethene	290		U
591-78-6	2-Hexanone	590		U
126-48-1	Dibromochloromethane	590		U
108-90-7	Chlorobenzene	290		U
100-41-4	Ethylbenzene	18000		

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

699D

Lab Name: FMETL NJDEP # 13461

Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4764.04

Sample wt/vol: 10.7 (g/ml) G Lab File ID: VC000753.D

Level: (low/med) MED Date Received: 9/1/99

% Moisture: not dec. 20.02 Date Analyzed: 9/3/99

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	65000	E
1330-20-7	o-Xylene	27000	
100-42-5	Styrene	590	U
75-25-2	Bromoform	590	U
79-34-5	1,1,2,2-Tetrachloroethane	590	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

699D

Lab Name: FMETL NJDEP # 13461
 Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4764.04
 Sample wt/vol: 10.7 (g/ml) G Lab File ID: VC000753.D
 Level: (low/med) MED Date Received: 9/1/99
 % Moisture: not dec. 20.02 Date Analyzed: 9/3/99
 GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 10

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000107-83-5	Pentane, 2-methyl-	10.53	17000	JN
2. 000096-14-0	Pentane, 3-methyl-	11.57	15000	JN
3. 000591-76-4	Hexane, 2-methyl-	16.55	20000	JN
4. 000565-59-3	Pentane, 2,3-dimethyl-	16.87	24000	JN
5. 000589-34-4	Hexane, 3-methyl-	17.12	24000	JN
6.	unknown	17.66	62000	J
7.	unknown	21.46	18000	J
8. 000620-14-4	Benzene, 1-ethyl-3-methyl-	30.85	59000	JN
9. 000526-73-8	Benzene, 1,2,3-trimethyl-	30.99	18000	JN
10. 000526-73-8	Benzene, 1,2,3-trimethyl-	31.93	40000	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

699D DL

Lab Name: FMETL NJDEP # 13461

Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4764.04

Sample wt/vol: 10.7 (g/ml) G Lab File ID: VB004235.D

Level: (low/med) MED Date Received: 9/1/99

% Moisture: not dec. 20.02 Date Analyzed: 9/7/99

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 5.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein		10000	U
107131	Acrylonitrile		10000	U
75650	tert-Butyl alcohol		19000	U
1634044	Methyl-tert-Butyl ether		4400	U
108203	Di-isopropyl ether		2900	U
	Dichlorodifluoromethane		5900	U
74-87-3	Chloromethane		1500	U
75-01-4	Vinyl Chloride		4400	U
74-83-9	Bromomethane		2900	U
75-00-3	Chloroethane		4400	U
75-69-4	Trichlorofluoromethane		2900	U
75-35-4	1,1-Dichloroethene		1500	U
67-64-1	Acetone		2900	U
75-15-0	Carbon Disulfide		1500	U
75-09-2	Methylene Chloride		2900	U
156-60-5	trans-1,2-Dichloroethene		2900	U
75-35-3	1,1-Dichloroethane		1500	U
108-05-4	Vinyl Acetate		4400	U
78-93-3	2-Butanone		4400	U
	cis-1,2-Dichloroethene		1500	U
67-66-3	Chloroform		1500	U
75-55-6	1,1,1-Trichloroethane		1500	U
56-23-5	Carbon Tetrachloride		2900	U
71-43-2	Benzene		1500	U
107-06-2	1,2-Dichloroethane		2900	U
79-01-6	Trichloroethene		1500	U
78-87-5	1,2-Dichloropropane		1500	U
75-27-4	Bromodichloromethane		1500	U
110-75-8	2-Chloroethyl vinyl ether		2900	U
10061-01-5	cis-1,3-Dichloropropene		1500	U
108-10-1	4-Methyl-2-Pentanone		2900	U
108-88-3	Toluene		10000	D
10061-02-6	trans-1,3-Dichloropropene		2900	U
79-00-5	1,1,2-Trichloroethane		2900	U
127-18-4	Tetrachloroethene		1500	U
591-78-6	2-Hexanone		2900	U
126-48-1	Dibromochloromethane		2900	U
108-90-7	Chlorobenzene		1500	U
100-41-4	Ethylbenzene		7700	D

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

699D DL

Lab Name: FMETL NJDEP # 13461
 Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.:
 Matrix: (soil/water) SOIL Lab Sample ID: 4764.04
 Sample wt/vol: 10.7 (g/ml) G Lab File ID: VB004235.D
 Level: (low/med) MED Date Received: 9/1/99
 % Moisture: not dec. 20.02 Date Analyzed: 9/7/99
 GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 5.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	33000	D
1330-20-7	o-Xylene	13000	D
100-42-5	Styrene	2900	U
75-25-2	Bromoform	2900	U
79-34-5	1,1,2,2-Tetrachloroethane	2900	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

699E

Lab Name: FMETL NJDEP # 13461
 Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.:
 Matrix: (soil/water) SOIL Lab Sample ID: 4764.05
 Sample wt/vol: 10.5 (g/ml) G Lab File ID: VC000754.D
 Level: (low/med) MED Date Received: 9/1/99
 % Moisture: not dec. 21.33 Date Analyzed: 9/3/99
 GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein	2100		U
107131	Acrylonitrile	2100		U
75650	tert-Butyl alcohol	3900		U
1634044	Methyl-tert-Butyl ether	910		U
108203	Di-isopropyl ether	600		U
	Dichlorodifluoromethane	1200		U
74-87-3	Chloromethane	300		U
75-01-4	Vinyl Chloride	910		U
74-83-9	Bromomethane	600		U
75-00-3	Chloroethane	910		U
75-69-4	Trichlorofluoromethane	600		U
75-35-4	1,1-Dichloroethene	300		U
67-64-1	Acetone	600		U
75-15-0	Carbon Disulfide	300		U
75-09-2	Methylene Chloride	600		U
156-60-5	trans-1,2-Dichloroethene	600		U
75-35-3	1,1-Dichloroethane	300		U
108-05-4	Vinyl Acetate	910		U
78-93-3	2-Butanone	910		U
	cis-1,2-Dichloroethene	300		U
67-66-3	Chloroform	300		U
75-55-6	1,1,1-Trichloroethane	300		U
56-23-5	Carbon Tetrachloride	600		U
71-43-2	Benzene	300		U
107-06-2	1,2-Dichloroethane	600		U
79-01-6	Trichloroethene	300		U
78-87-5	1,2-Dichloropropane	300		U
75-27-4	Bromodichloromethane	300		U
110-75-8	2-Chloroethyl vinyl ether	600		U
10061-01-5	cis-1,3-Dichloropropene	300		U
108-10-1	4-Methyl-2-Pentanone	600		U
108-88-3	Toluene	2100		
10061-02-6	trans-1,3-Dichloropropene	600		U
79-00-5	1,1,2-Trichloroethane	600		U
127-18-4	Tetrachloroethene	300		U
591-78-6	2-Hexanone	600		U
126-48-1	Dibromochloromethane	600		U
108-90-7	Chlorobenzene	300		U
100-41-4	Ethylbenzene	1200		

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

699E

Lab Name: FMETL NJDEP # 13461
 Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.:
 Matrix: (soil/water) SOIL Lab Sample ID: 4764.05
 Sample wt/vol: 10.5 (g/ml) G Lab File ID: VC000754.D
 Level: (low/med) MED Date Received: 9/1/99
 % Moisture: not dec. 21.33 Date Analyzed: 9/3/99
 GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	5800	
1330-20-7	o-Xylene	1800	
100-42-5	Styrene	600	U
75-25-2	Bromoform	600	U
79-34-5	1,1,2,2-Tetrachloroethane	600	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

699E

Lab Name: FMETL NJDEP # 13461
 Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.:
 Matrix: (soil/water) SOIL Lab Sample ID: 4764.05
 Sample wt/vol: 10.5 (g/ml) G Lab File ID: VC000754.D
 Level: (low/med) MED Date Received: 9/1/99
 % Moisture: not dec. 21.33 Date Analyzed: 9/3/99
 GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 10

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	17.66	13000	J
2. 000565-75-3	Pentane, 2,3,4-trimethyl-	21.09	3800	JN
3.	unknown	21.46	6000	J
4.	unknown	22.18	1900	J
5.	unknown	29.05	2000	J
6.	unknown	29.42	1300	J
7. 000611-14-3	Benzene, 1-ethyl-2-methyl-	30.85	5400	JN
8. 000108-67-8	Benzene, 1,3,5-trimethyl-	31.93	3000	JN
9.	unknown	32.16	1500	J
10. 000526-73-8	Benzene, 1,2,3-trimethyl-	33.04	1300	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

699F

Lab Name: FMETL NJDEP # 13461
 Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.:
 Matrix: (soil/water) SOIL Lab Sample ID: 4764.06
 Sample wt/vol: 11.5 (g/ml) G Lab File ID: VC000755.D
 Level: (low/med) MED Date Received: 9/1/99
 % Moisture: not dec. 14.62 Date Analyzed: 9/3/99
 GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein	1800	U	
107131	Acrylonitrile	1800	U	
75650	tert-Butyl alcohol	3300	U	
1634044	Methyl-tert-Butyl ether	770	U	
108203	Di-isopropyl ether	510	U	
	Dichlorodifluoromethane	1000	U	
74-87-3	Chloromethane	260	U	
75-01-4	Vinyl Chloride	770	U	
74-83-9	Bromomethane	510	U	
75-00-3	Chloroethane	770	U	
75-69-4	Trichlorofluoromethane	510	U	
75-35-4	1,1-Dichloroethene	260	U	
67-64-1	Acetone	510	U	
75-15-0	Carbon Disulfide	260	U	
75-09-2	Methylene Chloride	510	U	
156-60-5	trans-1,2-Dichloroethene	510	U	
75-35-3	1,1-Dichloroethane	260	U	
108-05-4	Vinyl Acetate	770	U	
78-93-3	2-Butanone	770	U	
	cis-1,2-Dichloroethene	260	U	
67-66-3	Chloroform	260	U	
75-55-6	1,1,1-Trichloroethane	260	U	
56-23-5	Carbon Tetrachloride	510	U	
71-43-2	Benzene	260	U	
107-06-2	1,2-Dichloroethane	510	U	
79-01-6	Trichloroethene	260	U	
78-87-5	1,2-Dichloropropane	260	U	
75-27-4	Bromodichloromethane	260	U	
110-75-8	2-Chloroethyl vinyl ether	510	U	
10061-01-5	cis-1,3-Dichloropropene	260	U	
108-10-1	4-Methyl-2-Pentanone	510	U	
108-88-3	Toluene	400		
10061-02-6	trans-1,3-Dichloropropene	510	U	
79-00-5	1,1,2-Trichloroethane	510	U	
127-18-4	Tetrachloroethene	260	U	
591-78-6	2-Hexanone	510	U	
126-48-1	Dibromochloromethane	510	U	
108-90-7	Chlorobenzene	260	U	
100-41-4	Ethylbenzene	220	J	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

699F

Lab Name: FMETL NJDEP # 13461
 Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.:
 Matrix: (soil/water) SOIL Lab Sample ID: 4764.06
 Sample wt/vol: 11.5 (g/ml) G Lab File ID: VC000755.D
 Level: (low/med) MED Date Received: 9/1/99
 % Moisture: not dec. 14.62 Date Analyzed: 9/3/99
 GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	1200	
1330-20-7	o-Xylene	330	J
100-42-5	Styrene	510	U
75-25-2	Bromoform	510	U
79-34-5	1,1,2,2-Tetrachloroethane	510	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

699F

Lab Name: FMETL NJDEP # 13461
Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____
Matrix: (soil/water) SOIL Lab Sample ID: 4764.06
Sample wt/vol: 11.5 (g/ml) G Lab File ID: VC000755.D
Level: (low/med) MED Date Received: 9/1/99
% Moisture: not dec. 14.62 Date Analyzed: 9/3/99
GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 0

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

699G

Lab Name: FMETL NJDEP # 13461
 Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.:
 Matrix: (soil/water) SOIL Lab Sample ID: 4764.07
 Sample wt/vol: 10.6 (g/ml) G Lab File ID: VC000756.D
 Level: (low/med) MED Date Received: 9/1/99
 % Moisture: not dec. 13.15 Date Analyzed: 9/3/99
 GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein		1900	U
107131	Acrylonitrile		1900	U
75650	tert-Butyl alcohol		3500	U
1634044	Methyl-tert-Butyl ether		810	U
108203	Di-isopropyl ether		540	U
	Dichlorodifluoromethane		1100	U
74-87-3	Chloromethane		270	U
75-01-4	Vinyl Chloride		810	U
74-83-9	Bromomethane		540	U
75-00-3	Chloroethane		810	U
75-69-4	Trichlorofluoromethane		540	U
75-35-4	1,1-Dichloroethene		270	U
67-64-1	Acetone		540	U
75-15-0	Carbon Disulfide		270	U
75-09-2	Methylene Chloride		540	U
156-60-5	trans-1,2-Dichloroethene		540	U
75-35-3	1,1-Dichloroethane		270	U
108-05-4	Vinyl Acetate		810	U
78-93-3	2-Butanone		810	U
	cis-1,2-Dichloroethene		270	U
67-66-3	Chloroform		270	U
75-55-6	1,1,1-Trichloroethane		270	U
56-23-5	Carbon Tetrachloride		540	U
71-43-2	Benzene		9000	
107-06-2	1,2-Dichloroethane		540	U
79-01-6	Trichloroethene		270	U
78-87-5	1,2-Dichloropropane		270	U
75-27-4	Bromodichloromethane		270	U
110-75-8	2-Chloroethyl vinyl ether		540	U
10061-01-5	cis-1,3-Dichloropropene		270	U
108-10-1	4-Methyl-2-Pentanone		540	U
108-88-3	Toluene		8700	
10061-02-6	trans-1,3-Dichloropropene		540	U
79-00-5	1,1,2-Trichloroethane		540	U
127-18-4	Tetrachloroethene		270	U
591-78-6	2-Hexanone		540	U
126-48-1	Dibromochloromethane		540	U
108-90-7	Chlorobenzene		270	U
100-41-4	Ethylbenzene		29000	E

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

699G

Lab Name: FMETL NJDEP # 13461

Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4764.07

Sample wt/vol: 10.6 (g/ml) G Lab File ID: VC000756.D

Level: (low/med) MED Date Received: 9/1/99

% Moisture: not dec. 13.15 Date Analyzed: 9/3/99

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	82000	E
1330-20-7	o-Xylene	21000	
100-42-5	Styrene	540	U
75-25-2	Bromoform	540	U
79-34-5	1,1,2,2-Tetrachloroethane	540	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

699G

Lab Name: FMETL NJDEP # 13461
 Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.:
 Matrix: (soil/water) SOIL Lab Sample ID: 4764.07
 Sample wt/vol: 10.6 (g/ml) G Lab File ID: VC000756.D
 Level: (low/med) MED Date Received: 9/1/99
 % Moisture: not dec. 13.15 Date Analyzed: 9/3/99
 GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 11

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 002216-34-4	Octane, 4-methyl-	25.64	72000	JN
2. 000111-84-2	Nonane	26.99	36000	JN
3. 000095-36-3	1,2,4-Trimethylbenzene	29.64	35000	JN
4. 000103-65-1	Benzene, propyl-	30.62	49000	JN
5. 000620-14-4	Benzene, 1-ethyl-3-methyl-	30.89	110000	JN
6.	unknown	31.00	76000	J
7. 000611-14-3	Benzene, 1-ethyl-2-methyl-	31.61	64000	JN
8.	unknown	31.94	150000	J
9. 000108-67-8	Benzene, 1,3,5-trimethyl-	33.04	59000	JN
10.	unknown	33.55	85000	J
11.	unknown	34.45	46000	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

699G DL

Lab Name: FMETL NJDEP # 13461

Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4764.07

Sample wt/vol: 10.6 (g/ml) G Lab File ID: VB004232.D

Level: (low/med) MED Date Received: 9/1/99

% Moisture: not dec. 13.15 Date Analyzed: 9/7/99

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein		19000	U
107131	Acrylonitrile		19000	U
75650	tert-Butyl alcohol		35000	U
1634044	Methyl-tert-Butyl ether		8100	U
108203	Di-isopropyl ether		5400	U
	Dichlorodifluoromethane		11000	U
74-87-3	Chloromethane		2700	U
75-01-4	Vinyl Chloride		8100	U
74-83-9	Bromomethane		5400	U
75-00-3	Chloroethane		8100	U
75-69-4	Trichlorofluoromethane		5400	U
75-35-4	1,1-Dichloroethene		2700	U
67-64-1	Acetone		5400	U
75-15-0	Carbon Disulfide		2700	U
75-09-2	Methylene Chloride		5400	U
156-60-5	trans-1,2-Dichloroethene		5400	U
75-35-3	1,1-Dichloroethane		2700	U
108-05-4	Vinyl Acetate		8100	U
78-93-3	2-Butanone		8100	U
	cis-1,2-Dichloroethene		2700	U
67-66-3	Chloroform		2700	U
75-55-6	1,1,1-Trichloroethane		2700	U
56-23-5	Carbon Tetrachloride		5400	U
71-43-2	Benzene		6000	D
107-06-2	1,2-Dichloroethane		5400	U
79-01-6	Trichloroethene		2700	U
78-87-5	1,2-Dichloropropane		2700	U
75-27-4	Bromodichloromethane		2700	U
110-75-8	2-Chloroethyl vinyl ether		5400	U
10061-01-5	cis-1,3-Dichloropropene		2700	U
108-10-1	4-Methyl-2-Pentanone		5400	U
108-88-3	Toluene		5400	D
10061-02-6	trans-1,3-Dichloropropene		5400	U
79-00-5	1,1,2-Trichloroethane		5400	U
127-18-4	Tetrachloroethene		2700	U
591-78-6	2-Hexanone		5400	U
126-48-1	Dibromochloromethane		5400	U
108-90-7	Chlorobenzene		2700	U
100-41-4	Ethylbenzene		82000	D

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

699G DL

Lab Name: FMETL NJDEP # 13461

Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4764.07

Sample wt/vol: 10.6 (g/ml) G Lab File ID: VB004232.D

Level: (low/med) MED Date Received: 9/1/99

% Moisture: not dec. 13.15 Date Analyzed: 9/7/99

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	220000	D
1330-20-7	o-Xylene	17000	D
100-42-5	Styrene	5400	U
75-25-2	Bromoform	5400	U
79-34-5	1,1,2,2-Tetrachloroethane	5400	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

699H

Lab Name: FMETL NJDEP # 13461

Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4764.08

Sample wt/vol: 10.8 (g/ml) G Lab File ID: VC000757.D

Level: (low/med) MED Date Received: 9/1/99

% Moisture: not dec. 17.91 Date Analyzed: 9/3/99

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein	2000		U
107131	Acrylonitrile	2000		U
75650	tert-Butyl alcohol	3700		U
1634044	Methyl-tert-Butyl ether	840		U
108203	Di-isopropyl ether	560		U
	Dichlorodifluoromethane	1100		U
74-87-3	Chloromethane	280		U
75-01-4	Vinyl Chloride	840		U
74-83-9	Bromomethane	560		U
75-00-3	Chloroethane	840		U
75-69-4	Trichlorofluoromethane	560		U
75-35-4	1,1-Dichloroethene	280		U
67-64-1	Acetone	560		U
75-15-0	Carbon Disulfide	280		U
75-09-2	Methylene Chloride	560		U
156-60-5	trans-1,2-Dichloroethene	560		U
75-35-3	1,1-Dichloroethane	280		U
108-05-4	Vinyl Acetate	840		U
78-93-3	2-Butanone	840		U
	cis-1,2-Dichloroethene	280		U
67-66-3	Chloroform	280		U
75-55-6	1,1,1-Trichloroethane	280		U
56-23-5	Carbon Tetrachloride	560		U
71-43-2	Benzene	30000		E
107-06-2	1,2-Dichloroethane	560		U
79-01-6	Trichloroethene	280		U
78-87-5	1,2-Dichloropropane	280		U
75-27-4	Bromodichloromethane	280		U
110-75-8	2-Chloroethyl vinyl ether	560		U
10061-01-5	cis-1,3-Dichloropropene	280		U
108-10-1	4-Methyl-2-Pentanone	560		U
108-88-3	Toluene	46000		E
10061-02-6	trans-1,3-Dichloropropene	560		U
79-00-5	1,1,2-Trichloroethane	560		U
127-18-4	Tetrachloroethene	280		U
591-78-6	2-Hexanone	560		U
126-48-1	Dibromochloromethane	560		U
108-90-7	Chlorobenzene	280		U
100-41-4	Ethylbenzene	32000		E

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

699H

Lab Name: FMETL NJDEP # 13461

Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4764.08

Sample wt/vol: 10.8 (g/ml) G Lab File ID: VC000757.D

Level: (low/med) MED Date Received: 9/1/99

% Moisture: not dec. 17.91 Date Analyzed: 9/3/99

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	93000	E
1330-20-7	o-Xylene	43000	E
100-42-5	Styrene	560	U
75-25-2	Bromoform	560	U
79-34-5	1,1,2,2-Tetrachloroethane	560	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

699H

Lab Name: FMETL NJDEP # 13461
 Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.:
 Matrix: (soil/water) SOIL Lab Sample ID: 4764.08
 Sample wt/vol: 10.8 (g/ml) G Lab File ID: VC000757.D
 Level: (low/med) MED Date Received: 9/1/99
 % Moisture: not dec. 17.91 Date Analyzed: 9/3/99
 GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 10

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000108-88-3	Toluene	23.64	160000	JN
2. 002216-34-4	Octane, 4-methyl-	25.64	92000	JN
3. 000103-65-1	Benzene, propyl-	30.62	66000	JN
4.	unknown	30.86	240000	J
5. 000108-67-8	Benzene, 1,3,5-trimethyl-	31.00	110000	JN
6. 000611-14-3	Benzene, 1-ethyl-2-methyl-	31.61	86000	JN
7.	unknown	31.94	190000	J
8. 000526-73-8	Benzene, 1,2,3-trimethyl-	33.04	90000	JN
9. 021195-59-5	1,3,8-p-Menthatriene	33.56	110000	JN
10.	unknown	34.45	62000	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

699H DL

Lab Name: FMETL NJDEP # 13461

Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4764.08

Sample wt/vol: 10.8 (g/ml) G Lab File ID: VB004233.D

Level: (low/med) MED Date Received: 9/1/99

% Moisture: not dec. 17.91 Date Analyzed: 9/7/99

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein	20000		U
107131	Acrylonitrile	20000		U
75650	tert-Butyl alcohol	37000		U
1634044	Methyl-tert-Butyl ether	8400		U
108203	Di-isopropyl ether	5600		U
	Dichlorodifluoromethane	11000		U
74-87-3	Chloromethane	2800		U
75-01-4	Vinyl Chloride	8400		U
74-83-9	Bromomethane	5600		U
75-00-3	Chloroethane	8400		U
75-69-4	Trichlorofluoromethane	5600		U
75-35-4	1,1-Dichloroethene	2800		U
67-64-1	Acetone	5600		U
75-15-0	Carbon Disulfide	2800		U
75-09-2	Methylene Chloride	5600		U
156-60-5	trans-1,2-Dichloroethene	5600		U
75-35-3	1,1-Dichloroethane	2800		U
108-05-4	Vinyl Acetate	8400		U
78-93-3	2-Butanone	8400		U
	cis-1,2-Dichloroethene	2800		U
67-66-3	Chloroform	2800		U
75-55-6	1,1,1-Trichloroethane	2800		U
56-23-5	Carbon Tetrachloride	5600		U
71-43-2	Benzene	24000		D
107-06-2	1,2-Dichloroethane	5600		U
79-01-6	Trichloroethene	2800		U
78-87-5	1,2-Dichloropropane	2800		U
75-27-4	Bromodichloromethane	2800		U
110-75-8	2-Chloroethyl vinyl ether	5600		U
10061-01-5	cis-1,3-Dichloropropene	2800		U
108-10-1	4-Methyl-2-Pentanone	5600		U
108-88-3	Toluene	160000		D
10061-02-6	trans-1,3-Dichloropropene	5600		U
79-00-5	1,1,2-Trichloroethane	5600		U
127-18-4	Tetrachloroethene	2800		U
591-78-6	2-Hexanone	5600		U
126-48-1	Dibromochloromethane	5600		U
108-90-7	Chlorobenzene	2800		U
100-41-4	Ethylbenzene	74000		D

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

699H DL

Lab Name: FMETL NJDEP # 13461
 Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.:
 Matrix: (soil/water) SOIL Lab Sample ID: 4764.08
 Sample wt/vol: 10.8 (g/ml) G Lab File ID: VB004233.D
 Level: (low/med) MED Date Received: 9/1/99
 % Moisture: not dec. 17.91 Date Analyzed: 9/7/99
 GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 10.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
1330-20-7	m+p-Xylenes		280000	D
1330-20-7	o-Xylene		110000	D
100-42-5	Styrene		5600	U
75-25-2	Bromoform		5600	U
79-34-5	1,1,2,2-Tetrachloroethane		5600	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

6991

Lab Name: FMETL NJDEP # 13461

Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4764.09

Sample wt/vol: 11.0 (g/ml) G Lab File ID: VB004236.D

Level: (low/med) MED Date Received: 9/1/99

% Moisture: not dec. 18.65 Date Analyzed: 9/7/99

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein	2000		U
107131	Acrylonitrile	2000		U
75650	tert-Butyl alcohol	3700		U
1634044	Methyl-tert-Butyl ether	840		U
108203	Di-isopropyl ether	560		U
	Dichlorodifluoromethane	1100		U
74-87-3	Chloromethane	280		U
75-01-4	Vinyl Chloride	840		U
74-83-9	Bromomethane	560		U
75-00-3	Chloroethane	840		U
75-69-4	Trichlorofluoromethane	560		U
75-35-4	1,1-Dichloroethene	280		U
67-64-1	Acetone	560		U
75-15-0	Carbon Disulfide	280		U
75-09-2	Methylene Chloride	560		U
156-60-5	trans-1,2-Dichloroethene	560		U
75-35-3	1,1-Dichloroethane	280		U
108-05-4	Vinyl Acetate	840		U
78-93-3	2-Butanone	840		U
	cis-1,2-Dichloroethene	280		U
67-66-3	Chloroform	280		U
75-55-6	1,1,1-Trichloroethane	280		U
56-23-5	Carbon Tetrachloride	560		U
71-43-2	Benzene	530		
107-06-2	1,2-Dichloroethane	560		U
79-01-6	Trichloroethene	280		U
78-87-5	1,2-Dichloropropane	280		U
75-27-4	Bromodichloromethane	280		U
110-75-8	2-Chloroethyl vinyl ether	560		U
10061-01-5	cis-1,3-Dichloropropene	280		U
108-10-1	4-Methyl-2-Pentanone	560		U
108-88-3	Toluene	3300		
10061-02-6	trans-1,3-Dichloropropene	560		U
79-00-5	1,1,2-Trichloroethane	560		U
127-18-4	Tetrachloroethene	280		U
591-78-6	2-Hexanone	560		U
126-48-1	Dibromochloromethane	560		U
108-90-7	Chlorobenzene	280		U
100-41-4	Ethylbenzene	2100		

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

6991

Lab Name: FMETL NJDEP # 13461
 Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.:
 Matrix: (soil/water) SOIL Lab Sample ID: 4764.09
 Sample wt/vol: 11.0 (g/ml) G Lab File ID: VB004236.D
 Level: (low/med) MED Date Received: 9/1/99
 % Moisture: not dec. 18.65 Date Analyzed: 9/7/99
 GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	7000	
1330-20-7	o-Xylene	2400	
100-42-5	Styrene	560	U
75-25-2	Bromoform	560	U
79-34-5	1,1,2,2-Tetrachloroethane	560	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

699I

Lab Name: FMETL NJDEP # 13461
Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.:
Matrix: (soil/water) SOIL Lab Sample ID: 4764.09
Sample wt/vol: 11.0 (g/ml) G Lab File ID: VB004236.D
Level: (low/med) MED Date Received: 9/1/99
% Moisture: not dec. 18.65 Date Analyzed: 9/7/99
GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 0

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

699D-Duplicate

Lab Name: FMETL NJDEP # 13461

Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4764.10

Sample wt/vol: 10.8 (g/ml) G Lab File ID: VC000759.D

Level: (low/med) MED Date Received: 9/1/99

% Moisture: not dec. 18.67 Date Analyzed: 9/3/99

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein		2000	U
107131	Acrylonitrile		2000	U
75650	tert-Butyl alcohol		3700	U
1634044	Methyl-tert-Butyl ether		860	U
108203	Di-isopropyl ether		570	U
	Dichlorodifluoromethane		1100	U
74-87-3	Chloromethane		290	U
75-01-4	Vinyl Chloride		860	U
74-83-9	Bromomethane		570	U
75-00-3	Chloroethane		860	U
75-69-4	Trichlorofluoromethane		570	U
75-35-4	1,1-Dichloroethene		290	U
67-64-1	Acetone		570	U
75-15-0	Carbon Disulfide		290	U
75-09-2	Methylene Chloride		570	U
156-60-5	trans-1,2-Dichloroethene		570	U
75-35-3	1,1-Dichloroethane		290	U
108-05-4	Vinyl Acetate		860	U
78-93-3	2-Butanone		860	U
	cis-1,2-Dichloroethene		290	U
67-66-3	Chloroform		290	U
75-55-6	1,1,1-Trichloroethane		290	U
56-23-5	Carbon Tetrachloride		570	U
71-43-2	Benzene		370	
107-06-2	1,2-Dichloroethane		570	U
79-01-6	Trichloroethene		290	U
78-87-5	1,2-Dichloropropane		290	U
75-27-4	Bromodichloromethane		290	U
110-75-8	2-Chloroethyl vinyl ether		570	U
10061-01-5	cis-1,3-Dichloropropene		290	U
108-10-1	4-Methyl-2-Pentanone		570	U
108-88-3	Toluene		30000	E
10061-02-6	trans-1,3-Dichloropropene		570	U
79-00-5	1,1,2-Trichloroethane		570	U
127-18-4	Tetrachloroethene		290	U
591-78-6	2-Hexanone		570	U
126-48-1	Dibromochloromethane		570	U
108-90-7	Chlorobenzene		290	U
100-41-4	Ethylbenzene		26000	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

699D-Duplicate

Lab Name: FMETL NJDEP # 13461

Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4764.10

Sample wt/vol: 10.8 (g/ml) G Lab File ID: VC000759.D

Level: (low/med) MED Date Received: 9/1/99

% Moisture: not dec. 18.67 Date Analyzed: 9/3/99

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	85000	E
1330-20-7	o-Xylene	38000	E
100-42-5	Styrene	570	U
75-25-2	Bromoform	570	U
79-34-5	1,1,2,2-Tetrachloroethane	570	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

699D-Duplicate

Lab Name: FMETL NJDEP # 13461
Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.:
Matrix: (soil/water) SOIL Lab Sample ID: 4764.10
Sample wt/vol: 10.8 (g/ml) G Lab File ID: VC000759.D
Level: (low/med) MED Date Received: 9/1/99
% Moisture: not dec. 18.67 Date Analyzed: 9/3/99
GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 10

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000560-21-4	Pentane, 2,3,3-trimethyl-	21.47	35000	JN
2. 000103-65-1	Benzene, propyl-	30.62	23000	JN
3. 000611-14-3	Benzene, 1-ethyl-2-methyl-	30.85	95000	JN
4. 000108-67-8	Benzene, 1,3,5-trimethyl-	31.00	38000	JN
5. 000611-14-3	Benzene, 1-ethyl-2-methyl-	31.61	34000	JN
6.	unknown	31.93	84000	J
7. 000526-73-8	Benzene, 1,2,3-trimethyl-	33.04	28000	JN
8. 001074-43-7	Benzene, 1-methyl-3-propyl-	33.38	23000	JN
9.	unknown	33.55	30000	J
10.	unknown	34.45	17000	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

699D-Dup DL

Lab Name: FMETL NJDEP # 13461

Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4764.10

Sample wt/vol: 10.8 (g/ml) G Lab File ID: VB004234.D

Level: (low/med) MED Date Received: 9/1/99

% Moisture: not dec. 18.67 Date Analyzed: 9/7/99

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein		20000	U
107131	Acrylonitrile		20000	U
75650	tert-Butyl alcohol		37000	U
1634044	Methyl-tert-Butyl ether		8600	U
108203	Di-isopropyl ether		5700	U
	Dichlorodifluoromethane		11000	U
74-87-3	Chloromethane		2900	U
75-01-4	Vinyl Chloride		8600	U
74-83-9	Bromomethane		5700	U
75-00-3	Chloroethane		8600	U
75-69-4	Trichlorofluoromethane		5700	U
75-35-4	1,1-Dichloroethene		2900	U
67-64-1	Acetone		5700	U
75-15-0	Carbon Disulfide		2900	U
75-09-2	Methylene Chloride		5700	U
156-60-5	trans-1,2-Dichloroethene		5700	U
75-35-3	1,1-Dichloroethane		2900	U
108-05-4	Vinyl Acetate		8600	U
78-93-3	2-Butanone		8600	U
	cis-1,2-Dichloroethene		2900	U
67-66-3	Chloroform		2900	U
75-55-6	1,1,1-Trichloroethane		2900	U
56-23-5	Carbon Tetrachloride		5700	U
71-43-2	Benzene		2900	U
107-06-2	1,2-Dichloroethane		5700	U
79-01-6	Trichloroethene		2900	U
78-87-5	1,2-Dichloropropane		2900	U
75-27-4	Bromodichloromethane		2900	U
110-75-8	2-Chloroethyl vinyl ether		5700	U
10061-01-5	cis-1,3-Dichloropropene		2900	U
108-10-1	4-Methyl-2-Pentanone		5700	U
108-88-3	Toluene		21000	D
10061-02-6	trans-1,3-Dichloropropene		5700	U
79-00-5	1,1,2-Trichloroethane		5700	U
127-18-4	Tetrachloroethene		2900	U
591-78-6	2-Hexanone		5700	U
126-48-1	Dibromochloromethane		5700	U
108-90-7	Chlorobenzene		2900	U
100-41-4	Ethylbenzene		28000	D

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

699D-Dup DL

Lab Name: FMETL NJDEP # 13461

Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4764.10

Sample wt/vol: 10.8 (g/ml) G Lab File ID: VB004234.D

Level: (low/med) MED Date Received: 9/1/99

% Moisture: not dec. 18.67 Date Analyzed: 9/7/99

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
1330-20-7	m+p-Xylenes		120000	D
1330-20-7	o-Xylene		47000	D
100-42-5	Styrene		5700	U
75-25-2	Bromoform		5700	U
79-34-5	1,1,2,2-Tetrachloroethane		5700	U

METALS

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

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4764.01-11
Sample Received: 09/01/99
Analysis Start: 09/07/99
Analysis Completed: 09/14/99

Site: Bldg. 699
Saltzman Ave.

Matrix: Soil

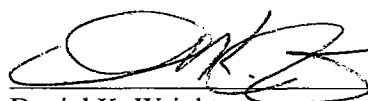
Method of Analysis: E.P.A. SW-846, Method 7420, 7421
Method of Digestion: E.P.A. SW-846, Method 3051A

TEST PARAMETER: Lead(ppm)

Laboratory I.D. #	Sample Location	RESULT (mg/Kg)	MDL (mg/Kg)
4764.01	699A-North Wall 8.0-8.5 ft (E)	ND	13.13
4764.02	699B-North Wall 8.0-8.5 ft (W)	ND	12.25
4764.03	699C-West Wall 8.0-8.5 ft (N)	ND	13.86
4764.04	699D-West Wall 8.0-8.5 ft (S)	ND	13.59
4764.05	699E-South Wall 8.0-8.5 ft (W)	ND	13.24
4764.06	699F-South Wall 8.0-8.5 ft (E)	ND	13.31
4764.07	699G-East Wall 8.0-8.5 ft (S)	ND	10.28
4764.08	699H-East Wall 8.0-8.5 ft (N)	ND	13.24
4764.09	699I-Bottom 9.5-10.0 ft	ND	12.05
4764.10	699D-Duplicate	ND	12.55

Laboratory I.D. #	Sample Location	RESULT (mg/L)	MDL (mg/L)
4764.11	699-GW	0.0354	0.0008

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable


Daniel K. Wright
Laboratory Director

9/16/99

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS

PHONE: (732) 532-6224 FAX: (732) 532-6263

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

CERTIFICATIONS: NJDEP #13461, NYSDOH #11699



ANALYTICAL DATA REPORT Fort Monmouth Environmental Laboratory ENVIRONMENTAL DIVISION Fort Monmouth, New Jersey PROJECT: IJO# 99-0008

Bldg. 699

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
Piping Sample-1 3.5-4.0'	4828.01	Soil	29-Sept-99 10:40	09/29/99
PS-2 3.0-3.5'	4828.02	Soil	29-Sept-99 10:50	09/29/99
PS-3 2.5-3.0'	4828.03	Soil	29-Sept-99 11:25	09/29/99
Duplicate	4828.04	Soil	29-Sept-99 11:25	09/29/99
PS-4 2.5-3.0'	4828.05	Soil	29-Sept-99 14:20	09/29/99
Trip Blank	4828.06	Methanol	29-Sept-99	09/29/99

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
VOA+15, LEAD, %SOLIDS

ENCLOSURE:
CHAIN OF CUSTODY
RESULTS


Daniel Wright/Date
Laboratory Director

10-14-99

Fort Monmouth Environmental Testing Laboratory

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

Tel (732)532-4359 Fax (732)532-6263 EMail:appleby@mail1.monmouth.army.mil

NJDEP Certification #13461

Chain of Custody Record

Customer: Charles Appleby				Project No: 99-0008				Analysis Parameters				Comments: * = Samples Kept <4 Celsius	
Phone #: X26224				Location: Bldg. 699				TPH/LEAD % SOLIDS VOA+10 VOA ID Number PID Reading					
(X)DERA ()OMA UST Assessment				UST#									
Samplers Name / Company : Frank Accorsi/TVS				Sample #									
Lab Sample I.D.	Sample Location	Date	Time	Type	bottles	TPH/LEAD	% SOLIDS	VOA+10	VOA ID Number		PID Reading	Remarks / Preservation Method	
4828. 01	PIPELINE SAMPLE-1 3.5-4.0 FT	9-29-99	1040	SOIL	2	X	X	X	837	11.13	380	ICE	
02	PS-2 3.0-3.5 FT		1050		2	X	X	X	838	10.78	420		
03	PS-3 2.5-3.0 FT		1125		2	X	X	X	839	11.23	260		
04	" " DUPLICATE		1125		2	X	X	X	840	10.14	260		
05	PS-4 2.5-3.0 FT		1420		2	X	X	X	836	11.21	410		
06	TRIP BLANK	✓	-		1			X	841	-	-		
OVM sn#580U-64455.343 was calibrated with zero air & w/ 245 ppm Isobutylene read 244 ppm. 1000 9-27-99 FA (time/date & initial)													
Relinquished by (signature):		Date/Time:		Received by (signature):		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: () Full, () Reduced, (X) Standard, () Screen / non-certified						Remarks: Dedicated Sampling Tools Used							
Turnaround time: () Standard 4 wks, () Rush Days, () ASAP Verbal Hrs.						All sample points have been GPS? () YES (X) NO () NA							

Method Summary

EPA SW-846 Method 8260

Gas Chromatographic Determination of Volatiles in Soil

A 5-gram volume of soil sample is added to a 5-ml aliquot of water. Surrogates and internal standards are added and the sample is placed on a purge and trap concentrator. The sample is purged and desorbed into a GC/MS system. Volatiles are identified and quantitated. The final concentration is calculated using soil weight, percent moisture and concentration.

VOLATILES

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEPE # 13461

Definition of Qualifiers

MDL : Method Detection Limit
J : Compound identified below detection limit
B : Compound in both sample and blank
D : Results from dilution of sample
U : Compound searched for but not detected
E : Compound exceeds calibration limit

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

Vblk135

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: Vblk135

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004398.D

Level: (low/med) MED Date Received: 9/29/99

% Moisture: not dec. 0 Date Analyzed: 10/4/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

107028	Acrolein	1800	U
107131	Acrylonitrile	1800	U
75650	tert-Butyl alcohol	3200	U
1634044	Methyl-tert-Butyl ether	750	U
108203	Di-isopropyl ether	500	U
	Dichlorodifluoromethane	1000	U
74-87-3	Chloromethane	250	U
75-01-4	Vinyl Chloride	750	U
74-83-9	Bromomethane	500	U
75-00-3	Chloroethane	750	U
75-69-4	Trichlorofluoromethane	500	U
75-35-4	1,1-Dichloroethene	250	U
67-64-1	Acetone	500	U
75-15-0	Carbon Disulfide	250	U
75-09-2	Methylene Chloride	500	U
156-60-5	trans-1,2-Dichloroethene	500	U
75-35-3	1,1-Dichloroethane	250	U
108-05-4	Vinyl Acetate	750	U
78-93-3	2-Butanone	750	U
	cis-1,2-Dichloroethene	250	U
67-66-3	Chloroform	250	U
75-55-6	1,1,1-Trichloroethane	250	U
56-23-5	Carbon Tetrachloride	500	U
71-43-2	Benzene	250	U
107-06-2	1,2-Dichloroethane	500	U
79-01-6	Trichloroethene	250	U
78-87-5	1,2-Dichloropropane	250	U
75-27-4	Bromodichloromethane	250	U
110-75-8	2-Chloroethyl vinyl ether	500	U
10061-01-5	cis-1,3-Dichloropropene	250	U
108-10-1	4-Methyl-2-Pentanone	500	U
108-88-3	Toluene	250	U
10061-02-6	trans-1,3-Dichloropropene	500	U
79-00-5	1,1,2-Trichloroethane	500	U
127-18-4	Tetrachloroethene	250	U
591-78-6	2-Hexanone	500	U
126-48-1	Dibromochloromethane	500	U
108-90-7	Chlorobenzene	250	U
100-41-4	Ethylbenzene	500	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

Vblk135

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: Vblk135

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004398.D

Level: (low/med) MED Date Received: 9/29/99

% Moisture: not dec. 0 Date Analyzed: 10/4/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
1330-20-7	m+p-Xylenes		750	U
1330-20-7	o-Xylene		500	U
100-42-5	Styrene		500	U
75-25-2	Bromoform		500	U
79-34-5	1,1,2,2-Tetrachloroethane		500	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

Vblk135

Lab Name: FMETL NJDEP#: 13461
Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.: _____
Matrix: (soil/water) SOIL Lab Sample ID: Vblk135
Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004398.D
Level: (low/med) MED Date Received: 9/29/99
% Moisture: not dec. 0 Date Analyzed: 10/4/99
GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KGNumber TICs found: 0

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

Vblk136

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: Vblk136

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004428.D

Level: (low/med) MED Date Received: 9/29/99

% Moisture: not dec. 0 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein		1800	U
107131	Acrylonitrile		1800	U
75650	tert-Butyl alcohol		3200	U
1634044	Methyl-tert-Butyl ether		750	U
108203	Di-isopropyl ether		500	U
	Dichlorodifluoromethane		1000	U
74-87-3	Chloromethane		250	U
75-01-4	Vinyl Chloride		750	U
74-83-9	Bromomethane		500	U
75-00-3	Chloroethane		750	U
75-69-4	Trichlorofluoromethane		500	U
75-35-4	1,1-Dichloroethene		250	U
67-64-1	Acetone		500	U
75-15-0	Carbon Disulfide		250	U
75-09-2	Methylene Chloride		500	U
156-60-5	trans-1,2-Dichloroethene		500	U
75-35-3	1,1-Dichloroethane		250	U
108-05-4	Vinyl Acetate		750	U
78-93-3	2-Butanone		750	U
	cis-1,2-Dichloroethene		250	U
67-66-3	Chloroform		250	U
75-55-6	1,1,1-Trichloroethane		250	U
56-23-5	Carbon Tetrachloride		500	U
71-43-2	Benzene		250	U
107-06-2	1,2-Dichloroethane		500	U
79-01-6	Trichloroethene		250	U
78-87-5	1,2-Dichloropropane		250	U
75-27-4	Bromodichloromethane		250	U
110-75-8	2-Chloroethyl vinyl ether		500	U
10061-01-5	cis-1,3-Dichloropropene		250	U
108-10-1	4-Methyl-2-Pentanone		500	U
108-88-3	Toluene		250	U
10061-02-6	trans-1,3-Dichloropropene		500	U
79-00-5	1,1,2-Trichloroethane		500	U
127-18-4	Tetrachloroethene		250	U
591-78-6	2-Hexanone		500	U
126-48-1	Dibromochloromethane		500	U
108-90-7	Chlorobenzene		250	U
100-41-4	Ethylbenzene		500	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

Vblk136

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: Vblk136

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004428.D

Level: (low/med) MED Date Received: 9/29/99

% Moisture: not dec. 0 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
1330-20-7	m+p-Xylenes		750	U
1330-20-7	o-Xylene		500	U
100-42-5	Styrene		500	U
75-25-2	Bromoform		500	U
79-34-5	1,1,2,2-Tetrachloroethane		500	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

VbIk136

Lab Name: FMETL NJDEP#: 13461
Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.:
Matrix: (soil/water) SOIL Lab Sample ID: VbIk136
Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004428.D
Level: (low/med) MED Date Received: 9/29/99
% Moisture: not dec. 0 Date Analyzed: 10/5/99
GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KGNumber TICs found: 0

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

Trip Blank

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 4828.06

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004400.D

Level: (low/med) MED Date Received: 9/29/99

% Moisture: not dec. 0 Date Analyzed: 10/4/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein		1800	U
107131	Acrylonitrile		1800	U
75650	tert-Butyl alcohol		3200	U
1634044	Methyl-tert-Butyl ether		750	U
108203	Di-isopropyl ether		500	U
	Dichlorodifluoromethane		1000	U
74-87-3	Chloromethane		250	U
75-01-4	Vinyl Chloride		750	U
74-83-9	Bromomethane		500	U
75-00-3	Chloroethane		750	U
75-69-4	Trichlorofluoromethane		500	U
75-35-4	1,1-Dichloroethene		250	U
67-64-1	Acetone		500	U
75-15-0	Carbon Disulfide		250	U
75-09-2	Methylene Chloride		1200	
156-60-5	trans-1,2-Dichloroethene		500	U
75-35-3	1,1-Dichloroethane		250	U
108-05-4	Vinyl Acetate		750	U
78-93-3	2-Butanone		750	U
	cis-1,2-Dichloroethene		250	U
67-66-3	Chloroform		250	U
75-55-6	1,1,1-Trichloroethane		250	U
56-23-5	Carbon Tetrachloride		500	U
71-43-2	Benzene		250	U
107-06-2	1,2-Dichloroethane		500	U
79-01-6	Trichloroethene		250	U
78-87-5	1,2-Dichloropropane		250	U
75-27-4	Bromodichloromethane		250	U
110-75-8	2-Chloroethyl vinyl ether		500	U
10061-01-5	cis-1,3-Dichloropropene		250	U
108-10-1	4-Methyl-2-Pentanone		500	U
108-88-3	Toluene		250	U
10061-02-6	trans-1,3-Dichloropropene		500	U
79-00-5	1,1,2-Trichloroethane		500	U
127-18-4	Tetrachloroethene		250	U
591-78-6	2-Hexanone		500	U
126-48-1	Dibromochloromethane		500	U
108-90-7	Chlorobenzene		250	U
100-41-4	Ethylbenzene		500	U

1A

FIELD ID:

VOLATILE ORGANICS ANALYSIS DATA SHEET

Trip Blank

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4828.06

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004400.D

Level: (low/med) MED Date Received: 9/29/99

% Moisture: not dec. 0 Date Analyzed: 10/4/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	750	U
1330-20-7	o-Xylene	500	U
100-42-5	Styrene	500	U
75-25-2	Bromoform	500	U
79-34-5	1,1,2,2-Tetrachloroethane	500	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

Trip Blank

Lab Name: FMETL NJDEP#: 13461
Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.:
Matrix: (soil/water) SOIL Lab Sample ID: 4828.06
Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004400.D
Level: (low/med) MED Date Received: 9/29/99
% Moisture: not dec. 0 Date Analyzed: 10/4/99
GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

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

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-1

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4828.01

Sample wt/vol: 11.1 (g/ml) G Lab File ID: VB004401.D

Level: (low/med) MED Date Received: 9/29/99

% Moisture: not dec. 3.13 Date Analyzed: 10/4/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein		1600	U
107131	Acrylonitrile		1600	U
75650	tert-Butyl alcohol		3000	U
1634044	Methyl-tert-Butyl ether		690	U
108203	Di-isopropyl ether		460	U
	Dichlorodifluoromethane		930	U
74-87-3	Chloromethane		230	U
75-01-4	Vinyl Chloride		690	U
74-83-9	Bromomethane		460	U
75-00-3	Chloroethane		690	U
75-69-4	Trichlorofluoromethane		460	U
75-35-4	1,1-Dichloroethene		230	U
67-64-1	Acetone		460	U
75-15-0	Carbon Disulfide		230	U
75-09-2	Methylene Chloride		460	U
156-60-5	trans-1,2-Dichloroethene		460	U
75-35-3	1,1-Dichloroethane		230	U
108-05-4	Vinyl Acetate		690	U
78-93-3	2-Butanone		690	U
	cis-1,2-Dichloroethene		230	U
67-66-3	Chloroform		230	U
75-55-6	1,1,1-Trichloroethane		230	U
56-23-5	Carbon Tetrachloride		460	U
71-43-2	Benzene		35000	E
107-06-2	1,2-Dichloroethane		460	U
79-01-6	Trichloroethene		230	U
78-87-5	1,2-Dichloropropane		230	U
75-27-4	Bromodichloromethane		230	U
110-75-8	2-Chloroethyl vinyl ether		16000	
10061-01-5	cis-1,3-Dichloropropene		230	U
108-10-1	4-Methyl-2-Pentanone		460	U
108-88-3	Toluene		99000	E
10061-02-6	trans-1,3-Dichloropropene		460	U
79-00-5	1,1,2-Trichloroethane		460	U
127-18-4	Tetrachloroethene		230	U
591-78-6	2-Hexanone		460	U
126-48-1	Dibromochloromethane		460	U
108-90-7	Chlorobenzene		230	U
100-41-4	Ethylbenzene		84000	E

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-1

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4828.01

Sample wt/vol: 11.1 (g/ml) G Lab File ID: VB004401.D

Level: (low/med) MED Date Received: 9/29/99

% Moisture: not dec. 3.13 Date Analyzed: 10/4/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	270000	E
1330-20-7	o-Xylene	130000	E
100-42-5	Styrene	460	U
75-25-2	Bromoform	460	U
79-34-5	1,1,2,2-Tetrachloroethane	460	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

PS-1

Lab Name: FMETL NJDEP#: 13461
 Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.:
 Matrix: (soil/water) SOIL Lab Sample ID: 4828.01
 Sample wt/vol: 11.1 (g/ml) G Lab File ID: VB004401.D
 Level: (low/med) MED Date Received: 9/29/99
 % Moisture: not dec. 3.13 Date Analyzed: 10/4/99
 GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 15

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 002216-34-4	Octane, 4-methyl-	25.85	120000	JN
2.	unknown	26.17	87000	J
3.	unknown	27.21	64000	J
4. 005911-04-6	Nonane, 3-methyl-	29.62	41000	JN
5. 000103-65-1	Benzene, propyl-	30.84	62000	JN
6.	unknown	31.09	250000	J
7.	unknown	31.22	110000	J
8. 000620-14-4	Benzene, 1-ethyl-3-methyl-	31.82	80000	JN
9.	unknown	32.16	220000	J
10.	unknown	33.26	86000	J
11. 000135-01-3	Benzene, 1,2-diethyl-	33.59	85000	JN
12. 000099-87-6	Benzene, 1-methyl-4-(1-methylel	33.76	120000	JN
13. 000496-11-7	Indane	33.99	48000	JN
14.	unknown	34.39	44000	J
15.	unknown	34.48	42000	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-1 DL

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4828.01

Sample wt/vol: 11.1 (g/ml) G Lab File ID: VB004429.D

Level: (low/med) MED Date Received: 9/29/99

% Moisture: not dec. 3.13 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 5 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

107028	Acrolein	16000	U
107131	Acrylonitrile	16000	U
75650	tert-Butyl alcohol	30000	U
1634044	Methyl-tert-Butyl ether	6900	U
108203	Di-isopropyl ether	4600	U
	Dichlorodifluoromethane	9300	U
74-87-3	Chloromethane	2300	U
75-01-4	Vinyl Chloride	6900	U
74-83-9	Bromomethane	4600	U
75-00-3	Chloroethane	6900	U
75-69-4	Trichlorofluoromethane	4600	U
75-35-4	1,1-Dichloroethene	2300	U
67-64-1	Acetone	4600	U
75-15-0	Carbon Disulfide	2300	U
75-09-2	Methylene Chloride	4600	U
156-60-5	trans-1,2-Dichloroethene	4600	U
75-35-3	1,1-Dichloroethane	2300	U
108-05-4	Vinyl Acetate	6900	U
78-93-3	2-Butanone	6900	U
	cis-1,2-Dichloroethene	2300	U
67-66-3	Chloroform	2300	U
75-55-6	1,1,1-Trichloroethane	2300	U
56-23-5	Carbon Tetrachloride	4600	U
71-43-2	Benzene	36000	
107-06-2	1,2-Dichloroethane	4600	U
79-01-6	Trichloroethene	2300	U
78-87-5	1,2-Dichloropropane	2300	U
75-27-4	Bromodichloromethane	2300	U
110-75-8	2-Chloroethyl vinyl ether	4600	U
10061-01-5	cis-1,3-Dichloropropene	2300	U
108-10-1	4-Methyl-2-Pentanone	4600	U
108-88-3	Toluene	420000	E
10061-02-6	trans-1,3-Dichloropropene	4600	U
79-00-5	1,1,2-Trichloroethane	4600	U
127-18-4	Tetrachloroethene	2300	U
591-78-6	2-Hexanone	4600	U
126-48-1	Dibromochloromethane	4600	U
108-90-7	Chlorobenzene	2300	U
100-41-4	Ethylbenzene	280000	E

VOLATILE ORGANICS ANALYSIS DATA SHEET

PS-1 DL

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 4828.01

Sample wt/vol: 11.1 (g/ml) G Lab File ID: VB004429.D

Level: (low/med) MED Date Received: 9/29/99

% Moisture: not dec. 3.13 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 5 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	1200000	E
1330-20-7	o-Xylene	480000	E
100-42-5	Styrene	4600	U
75-25-2	Bromoform	4600	U
79-34-5	1,1,2,2-Tetrachloroethane	4600	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-1 DL

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 4828.01

Sample wt/vol: 11.1 (g/ml) G Lab File ID: VB004435.D

Level: (low/med) MED Date Received: 9/29/99

% Moisture: not dec. 3.13 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 0.5 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein	160000		U
107131	Acrylonitrile	160000		U
75650	tert-Butyl alcohol	300000		U
1634044	Methyl-tert-Butyl ether	69000		U
108203	Di-isopropyl ether	46000		U
	Dichlorodifluoromethane	93000		U
74-87-3	Chloromethane	23000		U
75-01-4	Vinyl Chloride	69000		U
74-83-9	Bromomethane	46000		U
75-00-3	Chloroethane	69000		U
75-69-4	Trichlorofluoromethane	46000		U
75-35-4	1,1-Dichloroethene	23000		U
67-64-1	Acetone	46000		U
75-15-0	Carbon Disulfide	23000		U
75-09-2	Methylene Chloride	46000		U
156-60-5	trans-1,2-Dichloroethene	46000		U
75-35-3	1,1-Dichloroethane	23000		U
108-05-4	Vinyl Acetate	69000		U
78-93-3	2-Butanone	69000		U
	cis-1,2-Dichloroethene	23000		U
67-66-3	Chloroform	23000		U
75-55-6	1,1,1-Trichloroethane	23000		U
56-23-5	Carbon Tetrachloride	46000		U
71-43-2	Benzene	23000		
107-06-2	1,2-Dichloroethane	46000		U
79-01-6	Trichloroethene	23000		U
78-87-5	1,2-Dichloropropane	23000		U
75-27-4	Bromodichloromethane	23000		U
110-75-8	2-Chloroethyl vinyl ether	46000		U
10061-01-5	cis-1,3-Dichloropropene	23000		U
108-10-1	4-Methyl-2-Pentanone	46000		U
108-88-3	Toluene	310000		
10061-02-6	trans-1,3-Dichloropropene	46000		U
79-00-5	1,1,2-Trichloroethane	46000		U
127-18-4	Tetrachloroethene	23000		U
591-78-6	2-Hexanone	46000		U
126-48-1	Dibromochloromethane	46000		U
108-90-7	Chlorobenzene	23000		U
100-41-4	Ethylbenzene	200000		

VOLATILE ORGANICS ANALYSIS DATA SHEET

PS-1 DL

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4828.01

Sample wt/vol: 11.1 (g/ml) G Lab File ID: VB004435.D

Level: (low/med) MED Date Received: 9/29/99

% Moisture: not dec. 3.13 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 0.5 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	920000	
1330-20-7	o-Xylene	360000	
100-42-5	Styrene	46000	U
75-25-2	Bromoform	46000	U
79-34-5	1,1,2,2-Tetrachloroethane	46000	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-2

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4828.02

Sample wt/vol: 10.8 (g/ml) G Lab File ID: VB004402.D

Level: (low/med) MED Date Received: 9/29/99

% Moisture: not dec. 4.17 Date Analyzed: 10/4/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein		1700	U
107131	Acrylonitrile		1700	U
75650	tert-Butyl alcohol		3100	U
1634044	Methyl-tert-Butyl ether		720	U
108203	Di-isopropyl ether		480	U
	Dichlorodifluoromethane		970	U
74-87-3	Chloromethane		240	U
75-01-4	Vinyl Chloride		720	U
74-83-9	Bromomethane		480	U
75-00-3	Chloroethane		720	U
75-69-4	Trichlorofluoromethane		480	U
75-35-4	1,1-Dichloroethene		240	U
67-64-1	Acetone		480	U
75-15-0	Carbon Disulfide		240	U
75-09-2	Methylene Chloride		480	U
156-60-5	trans-1,2-Dichloroethene		480	U
75-35-3	1,1-Dichloroethane		240	U
108-05-4	Vinyl Acetate		720	U
78-93-3	2-Butanone		720	U
	cis-1,2-Dichloroethene		240	U
67-66-3	Chloroform		240	U
75-55-6	1,1,1-Trichloroethane		240	U
56-23-5	Carbon Tetrachloride		480	U
71-43-2	Benzene		35000	E
107-06-2	1,2-Dichloroethane		480	U
79-01-6	Trichloroethene		240	U
78-87-5	1,2-Dichloropropane		240	U
75-27-4	Bromodichloromethane		240	U
110-75-8	2-Chloroethyl vinyl ether		15000	
10061-01-5	cis-1,3-Dichloropropene		240	U
108-10-1	4-Methyl-2-Pentanone		480	U
108-88-3	Toluene		110000	E
10061-02-6	trans-1,3-Dichloropropene		480	U
79-00-5	1,1,2-Trichloroethane		480	U
127-18-4	Tetrachloroethene		240	U
591-78-6	2-Hexanone		480	U
126-48-1	Dibromochloromethane		480	U
108-90-7	Chlorobenzene		240	U
100-41-4	Ethylbenzene		60000	E

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-2

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4828.02

Sample wt/vol: 10.8 (g/ml) G Lab File ID: VB004402.D

Level: (low/med) MED Date Received: 9/29/99

% Moisture: not dec. 4.17 Date Analyzed: 10/4/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	190000	E
1330-20-7	o-Xylene	89000	E
100-42-5	Styrene	480	U
75-25-2	Bromoform	480	U
79-34-5	1,1,2,2-Tetrachloroethane	480	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

PS-2

Lab Name: FMETL NJDEP#: 13461
 Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: 4828.02
 Sample wt/vol: 10.8 (g/ml) G Lab File ID: VB004402.D
 Level: (low/med) MED Date Received: 9/29/99
 % Moisture: not dec. 4.17 Date Analyzed: 10/4/99
 GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 15

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	25.85	150000	J
2.	unknown	26.17	110000	J
3. 000111-84-2	Nonane	27.22	100000	JN
4.	unknown	28.60	54000	J
5. 000103-65-1	Benzene, propyl-	30.84	88000	JN
6.	unknown	31.09	300000	J
7.	unknown	31.23	140000	J
8.	unknown	31.83	100000	J
9.	unknown	32.16	140000	J
10.	unknown	33.26	110000	J
11.	unknown	33.60	110000	J
12.	unknown	33.77	170000	J
13.	unknown	33.99	63000	J
14.	unknown	34.40	64000	J
15.	unknown	34.48	57000	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-2 DL

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 4828.02

Sample wt/vol: 10.8 (g/ml) G Lab File ID: VB004430.D

Level: (low/med) MED Date Received: 9/29/99

% Moisture: not dec. 4.17 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 5 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein		17000	U
107131	Acrylonitrile		17000	U
75650	tert-Butyl alcohol		31000	U
1634044	Methyl-tert-Butyl ether		7200	U
108203	Di-isopropyl ether		4800	U
	Dichlorodifluoromethane		9700	U
74-87-3	Chloromethane		2400	U
75-01-4	Vinyl Chloride		7200	U
74-83-9	Bromomethane		4800	U
75-00-3	Chloroethane		7200	U
75-69-4	Trichlorofluoromethane		4800	U
75-35-4	1,1-Dichloroethene		2400	U
67-64-1	Acetone		4800	U
75-15-0	Carbon Disulfide		2400	U
75-09-2	Methylene Chloride		4800	U
156-60-5	trans-1,2-Dichloroethene		4800	U
75-35-3	1,1-Dichloroethane		2400	U
108-05-4	Vinyl Acetate		7200	U
78-93-3	2-Butanone		7200	U
	cis-1,2-Dichloroethene		2400	U
67-66-3	Chloroform		2400	U
75-55-6	1,1,1-Trichloroethane		2400	U
56-23-5	Carbon Tetrachloride		4800	U
71-43-2	Benzene		35000	
107-06-2	1,2-Dichloroethane		4800	U
79-01-6	Trichloroethene		2400	U
78-87-5	1,2-Dichloropropane		2400	U
75-27-4	Bromodichloromethane		2400	U
110-75-8	2-Chloroethyl vinyl ether		4800	U
10061-01-5	cis-1,3-Dichloropropene		2400	U
108-10-1	4-Methyl-2-Pentanone		4800	U
108-88-3	Toluene		460000	E
10061-02-6	trans-1,3-Dichloropropene		4800	U
79-00-5	1,1,2-Trichloroethane		4800	U
127-18-4	Tetrachloroethene		2400	U
591-78-6	2-Hexanone		4800	U
126-48-1	Dibromochloromethane		4800	U
108-90-7	Chlorobenzene		2400	U
100-41-4	Ethylbenzene		310000	E

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-2 DL

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4828.02

Sample wt/vol: 10.8 (g/ml) G Lab File ID: VB004430.D

Level: (low/med) MED Date Received: 9/29/99

% Moisture: not dec. 4.17 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 5 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
1330-20-7	m+p-Xylenes		1200000	E
1330-20-7	o-Xylene		530000	E
100-42-5	Styrene		4800	U
75-25-2	Bromoform		4800	U
79-34-5	1,1,2,2-Tetrachloroethane		4800	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-2 DL

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 4828.02

Sample wt/vol: 10.8 (g/ml) G Lab File ID: VB004436.D

Level: (low/med) MED Date Received: 9/29/99

% Moisture: not dec. 4.17 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 0.5 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein		170000	U
107131	Acrylonitrile		170000	U
75650	tert-Butyl alcohol		310000	U
1634044	Methyl-tert-Butyl ether		72000	U
108203	Di-isopropyl ether		48000	U
	Dichlorodifluoromethane		97000	U
74-87-3	Chloromethane		24000	U
75-01-4	Vinyl Chloride		72000	U
74-83-9	Bromomethane		48000	U
75-00-3	Chloroethane		72000	U
75-69-4	Trichlorofluoromethane		48000	U
75-35-4	1,1-Dichloroethene		24000	U
67-64-1	Acetone		48000	U
75-15-0	Carbon Disulfide		24000	U
75-09-2	Methylene Chloride		48000	U
156-60-5	trans-1,2-Dichloroethene		48000	U
75-35-3	1,1-Dichloroethane		24000	U
108-05-4	Vinyl Acetate		72000	U
78-93-3	2-Butanone		72000	U
	cis-1,2-Dichloroethene		24000	U
67-66-3	Chloroform		24000	U
75-55-6	1,1,1-Trichloroethane		24000	U
56-23-5	Carbon Tetrachloride		48000	U
71-43-2	Benzene		24000	U
107-06-2	1,2-Dichloroethane		48000	U
79-01-6	Trichloroethene		24000	U
78-87-5	1,2-Dichloropropane		24000	U
75-27-4	Bromodichloromethane		24000	U
110-75-8	2-Chloroethyl vinyl ether		48000	U
10061-01-5	cis-1,3-Dichloropropene		24000	U
108-10-1	4-Methyl-2-Pentanone		48000	U
108-88-3	Toluene		310000	
10061-02-6	trans-1,3-Dichloropropene		48000	U
79-00-5	1,1,2-Trichloroethane		48000	U
127-18-4	Tetrachloroethene		24000	U
591-78-6	2-Hexanone		48000	U
126-48-1	Dibromochloromethane		48000	U
108-90-7	Chlorobenzene		24000	U
100-41-4	Ethylbenzene		240000	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-2 DL

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4828.02

Sample wt/vol: 10.8 (g/ml) G Lab File ID: VB004436.D

Level: (low/med) MED Date Received: 9/29/99

% Moisture: not dec. 4.17 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 0.5 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	1100000	
1330-20-7	o-Xylene	430000	
100-42-5	Styrene	48000	U
75-25-2	Bromoform	48000	U
79-34-5	1,1,2,2-Tetrachloroethane	48000	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-3

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4828.03

Sample wt/vol: 11.2 (g/ml) G Lab File ID: VB004403.D

Level: (low/med) MED Date Received: 9/29/99

% Moisture: not dec. 10.22 Date Analyzed: 10/4/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein	1700		U
107131	Acrylonitrile	1700		U
75650	tert-Butyl alcohol	3200		U
1634044	Methyl-tert-Butyl ether	740		U
108203	Di-isopropyl ether	490		U
	Dichlorodifluoromethane	990		U
74-87-3	Chloromethane	250		U
75-01-4	Vinyl Chloride	740		U
74-83-9	Bromomethane	490		U
75-00-3	Chloroethane	740		U
75-69-4	Trichlorofluoromethane	490		U
75-35-4	1,1-Dichloroethene	250		U
67-64-1	Acetone	490		U
75-15-0	Carbon Disulfide	250		U
75-09-2	Methylene Chloride	490		U
156-60-5	trans-1,2-Dichloroethene	490		U
75-35-3	1,1-Dichloroethane	250		U
108-05-4	Vinyl Acetate	740		U
78-93-3	2-Butanone	740		U
	cis-1,2-Dichloroethene	250		U
67-66-3	Chloroform	250		U
75-55-6	1,1,1-Trichloroethane	250		U
56-23-5	Carbon Tetrachloride	490		U
71-43-2	Benzene	850		
107-06-2	1,2-Dichloroethane	490		U
79-01-6	Trichloroethene	250		U
78-87-5	1,2-Dichloropropane	250		U
75-27-4	Bromodichloromethane	250		U
110-75-8	2-Chloroethyl vinyl ether	490		U
10061-01-5	cis-1,3-Dichloropropene	250		U
108-10-1	4-Methyl-2-Pentanone	490		U
108-88-3	Toluene	13000		
10061-02-6	trans-1,3-Dichloropropene	490		U
79-00-5	1,1,2-Trichloroethane	490		U
127-18-4	Tetrachloroethene	250		U
591-78-6	2-Hexanone	490		U
126-48-1	Dibromochloromethane	490		U
108-90-7	Chlorobenzene	250		U
100-41-4	Ethylbenzene	2500		

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-3

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4828.03

Sample wt/vol: 11.2 (g/ml) G Lab File ID: VB004403.D

Level: (low/med) MED Date Received: 9/29/99

% Moisture: not dec. 10.22 Date Analyzed: 10/4/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
1330-20-7	m+p-Xylenes		12000	
1330-20-7	o-Xylene		4200	
100-42-5	Styrene		490	U
75-25-2	Bromoform		490	U
79-34-5	1,1,2,2-Tetrachloroethane		490	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

PS-3

Lab Name: FMETL NJDEP#: 13461
 Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.:
 Matrix: (soil/water) SOIL Lab Sample ID: 4828.03
 Sample wt/vol: 11.2 (g/ml) G Lab File ID: VB004403.D
 Level: (low/med) MED Date Received: 9/29/99
 % Moisture: not dec. 10.22 Date Analyzed: 10/4/99
 GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 15

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000107-83-5	Pentane, 2-methyl-	10.77	18000	JN
2. 000591-76-4	Hexane, 2-methyl-	16.75	17000	JN
3. 000589-34-4	Hexane, 3-methyl-	17.33	21000	JN
4.	unknown	17.86	13000	J
5.	unknown	27.17	85000	J
6.	unknown	28.63	150000	J
7.	unknown	30.23	24000	J
8.	unknown	30.63	15000	J
9. 000611-14-3	Benzene, 1-ethyl-2-methyl-	31.06	25000	JN
10.	unknown	31.56	25000	J
11. 000611-14-3	Benzene, 1-ethyl-2-methyl-	31.81	19000	JN
12. 000526-73-8	Benzene, 1,2,3-trimethyl-	32.14	30000	JN
13. 000091-20-3	Naphthalene	32.70	77000	JN
14.	unknown	33.70	27000	J
15.	unknown	34.42	22000	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-3Duplicate

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4828.04

Sample wt/vol: 10.1 (g/ml) G Lab File ID: VB004404.D

Level: (low/med) MED Date Received: 9/29/99

% Moisture: not dec. 7.82 Date Analyzed: 10/4/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein	1900	U	
107131	Acrylonitrile	1900	U	
75650	tert-Butyl alcohol	3500	U	
1634044	Methyl-tert-Butyl ether	800	U	
108203	Di-isopropyl ether	540	U	
	Dichlorodifluoromethane	1100	U	
74-87-3	Chloromethane	270	U	
75-01-4	Vinyl Chloride	800	U	
74-83-9	Bromomethane	540	U	
75-00-3	Chloroethane	800	U	
75-69-4	Trichlorofluoromethane	540	U	
75-35-4	1,1-Dichloroethene	270	U	
67-64-1	Acetone	540	U	
75-15-0	Carbon Disulfide	270	U	
75-09-2	Methylene Chloride	540	U	
156-60-5	trans-1,2-Dichloroethene	540	U	
75-35-3	1,1-Dichloroethane	270	U	
108-05-4	Vinyl Acetate	800	U	
78-93-3	2-Butanone	800	U	
	cis-1,2-Dichloroethene	270	U	
67-66-3	Chloroform	270	U	
75-55-6	1,1,1-Trichloroethane	270	U	
56-23-5	Carbon Tetrachloride	540	U	
71-43-2	Benzene	270	U	
107-06-2	1,2-Dichloroethane	540	U	
79-01-6	Trichloroethene	270	U	
78-87-5	1,2-Dichloropropane	270	U	
75-27-4	Bromodichloromethane	270	U	
110-75-8	2-Chloroethyl vinyl ether	540	U	
10061-01-5	cis-1,3-Dichloropropene	270	U	
108-10-1	4-Methyl-2-Pentanone	540	U	
108-88-3	Toluene	2500		
10061-02-6	trans-1,3-Dichloropropene	540	U	
79-00-5	1,1,2-Trichloroethane	540	U	
127-18-4	Tetrachloroethene	270	U	
591-78-6	2-Hexanone	540	U	
126-48-1	Dibromochloromethane	540	U	
108-90-7	Chlorobenzene	270	U	
100-41-4	Ethylbenzene	2100		

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-3Duplicate

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4828.04

Sample wt/vol: 10.1 (g/ml) G Lab File ID: VB004404.D

Level: (low/med) MED Date Received: 9/29/99

% Moisture: not dec. 7.82 Date Analyzed: 10/4/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	8400	
1330-20-7	o-Xylene	3300	
100-42-5	Styrene	540	U
75-25-2	Bromoform	540	U
79-34-5	1,1,2,2-Tetrachloroethane	540	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

PS-3Duplicate

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4828.04

Sample wt/vol: 10.1 (g/ml) G Lab File ID: VB004404.D

Level: (low/med) MED Date Received: 9/29/99

% Moisture: not dec. 7.82 Date Analyzed: 10/4/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KGNumber TICs found: 15

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000107-83-5	Pentane, 2-methyl-	10.77	3200	JN
2. 000096-14-0	Pentane, 3-methyl-	11.81	1800	JN
3. 000591-76-4	Hexane, 2-methyl-	16.76	3200	JN
4. 000589-34-4	Hexane, 3-methyl-	17.33	3600	JN
5.	unknown	17.85	2500	J
6.	unknown	25.83	2500	J
7. 002216-33-3	Octane, 3-methyl-	26.16	1600	JN
8. 000111-84-2	Nonane	27.17	3000	JN
9.	unknown	28.61	4100	J
10. 000611-14-3	Benzene, 1-ethyl-2-methyl-	31.06	5600	JN
11. 000095-63-6	Benzene, 1,2,4-trimethyl-	31.20	1900	JN
12. 000091-57-6	Naphthalene, 2-methyl-	31.81	26000	JN
13. 000108-67-8	Benzene, 1,3,5-trimethyl-	32.14	6800	JN
14. 000091-20-3	Naphthalene	32.69	2500	JN
15. 000091-57-6	Naphthalene, 2-methyl-	33.72	4100	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-4

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4828.05

Sample wt/vol: 11.2 (g/ml) G Lab File ID: VB004405.D

Level: (low/med) MED Date Received: 9/29/99

% Moisture: not dec. 8.99 Date Analyzed: 10/4/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein	1700		U
107131	Acrylonitrile	1700		U
75650	tert-Butyl alcohol	3200		U
1634044	Methyl-tert-Butyl ether	740		U
108203	Di-isopropyl ether	490		U
	Dichlorodifluoromethane	980		U
74-87-3	Chloromethane	250		U
75-01-4	Vinyl Chloride	740		U
74-83-9	Bromomethane	490		U
75-00-3	Chloroethane	740		U
75-69-4	Trichlorofluoromethane	490		U
75-35-4	1,1-Dichloroethene	250		U
67-64-1	Acetone	490		U
75-15-0	Carbon Disulfide	250		U
75-09-2	Methylene Chloride	490		U
156-60-5	trans-1,2-Dichloroethene	490		U
75-35-3	1,1-Dichloroethane	250		U
108-05-4	Vinyl Acetate	740		U
78-93-3	2-Butanone	740		U
	cis-1,2-Dichloroethene	250		U
67-66-3	Chloroform	250		U
75-55-6	1,1,1-Trichloroethane	250		U
56-23-5	Carbon Tetrachloride	490		U
71-43-2	Benzene	7100		
107-06-2	1,2-Dichloroethane	490		U
79-01-6	Trichloroethene	250		U
78-87-5	1,2-Dichloropropane	250		U
75-27-4	Bromodichloromethane	250		U
110-75-8	2-Chloroethyl vinyl ether	3000		
10061-01-5	cis-1,3-Dichloropropene	250		U
108-10-1	4-Methyl-2-Pentanone	490		U
108-88-3	Toluene	59000		E
10061-02-6	trans-1,3-Dichloropropene	490		U
79-00-5	1,1,2-Trichloroethane	490		U
127-18-4	Tetrachloroethene	250		U
591-78-6	2-Hexanone	490		U
126-48-1	Dibromochloromethane	490		U
108-90-7	Chlorobenzene	250		U
100-41-4	Ethylbenzene	77000		E

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-4

Lab Name: FMETL NJDEP#: 13461
Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.:
Matrix: (soil/water) SOIL Lab Sample ID: 4828.05
Sample wt/vol: 11.2 (g/ml) G Lab File ID: VB004405.D
Level: (low/med) MED Date Received: 9/29/99
% Moisture: not dec. 8.99 Date Analyzed: 10/4/99
GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
1330-20-7	m+p-Xylenes		240000	E
1330-20-7	o-Xylene		100000	E
100-42-5	Styrene		490	U
75-25-2	Bromoform		490	U
79-34-5	1,1,2,2-Tetrachloroethane		490	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

PS-4

Lab Name: FMETL NJDEP#: 13461
 Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.:
 Matrix: (soil/water) SOIL Lab Sample ID: 4828.05
 Sample wt/vol: 11.2 (g/ml) G Lab File ID: VB004405.D
 Level: (low/med) MED Date Received: 9/29/99
 % Moisture: not dec. 8.99 Date Analyzed: 10/4/99
 GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 15

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000142-82-5	Heptane	18.62	71000	JN
2.	unknown	21.66	44000	J
3. 000589-81-1	Heptane, 3-methyl-	22.17	63000	JN
4. 000111-65-9	Octane	23.31	54000	JN
5. 002216-34-4	Octane, 4-methyl-	25.84	90000	JN
6.	unknown	26.16	67000	J
7. 000111-84-2	Nonane	27.20	50000	JN
8. 000103-65-1	Benzene, propyl-	30.83	48000	JN
9.	unknown	31.07	200000	J
10.	unknown	31.21	83000	J
11.	unknown	31.82	63000	J
12.	unknown	32.16	190000	J
13. 000526-73-8	Benzene, 1,2,3-trimethyl-	33.25	67000	JN
14.	unknown	33.59	58000	J
15. 021195-59-5	1,3,8-p-Menthatriene	33.76	84000	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-4 DL

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4828.05

Sample wt/vol: 11.2 (g/ml) G Lab File ID: VB004431.D

Level: (low/med) MED Date Received: 9/29/99

% Moisture: not dec. 8.99 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 5 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein		17000	U
107131	Acrylonitrile		17000	U
75650	tert-Butyl alcohol		32000	U
1634044	Methyl-tert-Butyl ether		7400	U
108203	Di-isopropyl ether		4900	U
	Dichlorodifluoromethane		9800	U
74-87-3	Chloromethane		2500	U
75-01-4	Vinyl Chloride		7400	U
74-83-9	Bromomethane		4900	U
75-00-3	Chloroethane		7400	U
75-69-4	Trichlorofluoromethane		4900	U
75-35-4	1,1-Dichloroethene		2500	U
67-64-1	Acetone		4900	U
75-15-0	Carbon Disulfide		2500	U
75-09-2	Methylene Chloride		4900	U
156-60-5	trans-1,2-Dichloroethene		4900	U
75-35-3	1,1-Dichloroethane		2500	U
108-05-4	Vinyl Acetate		7400	U
78-93-3	2-Butanone		7400	U
	cis-1,2-Dichloroethene		2500	U
67-66-3	Chloroform		2500	U
75-55-6	1,1,1-Trichloroethane		2500	U
56-23-5	Carbon Tetrachloride		4900	U
71-43-2	Benzene		6000	
107-06-2	1,2-Dichloroethane		4900	U
79-01-6	Trichloroethene		2500	U
78-87-5	1,2-Dichloropropane		2500	U
75-27-4	Bromodichloromethane		2500	U
110-75-8	2-Chloroethyl vinyl ether		4900	U
10061-01-5	cis-1,3-Dichloropropene		2500	U
108-10-1	4-Methyl-2-Pentanone		4900	U
108-88-3	Toluene		80000	
10061-02-6	trans-1,3-Dichloropropene		4900	U
79-00-5	1,1,2-Trichloroethane		4900	U
127-18-4	Tetrachloroethene		2500	U
591-78-6	2-Hexanone		4900	U
126-48-1	Dibromochloromethane		4900	U
108-90-7	Chlorobenzene		2500	U
100-41-4	Ethylbenzene		150000	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-4 DL

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4828.05

Sample wt/vol: 11.2 (g/ml) G Lab File ID: VB004431.D

Level: (low/med) MED Date Received: 9/29/99

% Moisture: not dec. 8.99 Date Analyzed: 10/5/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 5 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	620000	E
1330-20-7	o-Xylene	180000	
100-42-5	Styrene	4900	U
75-25-2	Bromoform	4900	U
79-34-5	1,1,2,2-Tetrachloroethane	4900	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-4 DL

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 4828.05

Sample wt/vol: 11.2 (g/ml) G Lab File ID: VB004437.D

Level: (low/med) MED Date Received: 9/29/99

% Moisture: not dec. 8.99 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 0.5 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein		170000	U
107131	Acrylonitrile		170000	U
75650	tert-Butyl alcohol		320000	U
1634044	Methyl-tert-Butyl ether		74000	U
108203	Di-isopropyl ether		49000	U
	Dichlorodifluoromethane		98000	U
74-87-3	Chloromethane		25000	U
75-01-4	Vinyl Chloride		74000	U
74-83-9	Bromomethane		49000	U
75-00-3	Chloroethane		74000	U
75-69-4	Trichlorofluoromethane		49000	U
75-35-4	1,1-Dichloroethene		25000	U
67-64-1	Acetone		49000	U
75-15-0	Carbon Disulfide		25000	U
75-09-2	Methylene Chloride		49000	U
156-60-5	trans-1,2-Dichloroethene		49000	U
75-35-3	1,1-Dichloroethane		25000	U
108-05-4	Vinyl Acetate		74000	U
78-93-3	2-Butanone		74000	U
	cis-1,2-Dichloroethene		25000	U
67-66-3	Chloroform		25000	U
75-55-6	1,1,1-Trichloroethane		25000	U
56-23-5	Carbon Tetrachloride		49000	U
71-43-2	Benzene		25000	U
107-06-2	1,2-Dichloroethane		49000	U
79-01-6	Trichloroethene		25000	U
78-87-5	1,2-Dichloropropane		25000	U
75-27-4	Bromodichloromethane		25000	U
110-75-8	2-Chloroethyl vinyl ether		49000	U
10061-01-5	cis-1,3-Dichloropropene		25000	U
108-10-1	4-Methyl-2-Pentanone		49000	U
108-88-3	Toluene		47000	
10061-02-6	trans-1,3-Dichloropropene		49000	U
79-00-5	1,1,2-Trichloroethane		49000	U
127-18-4	Tetrachloroethene		25000	U
591-78-6	2-Hexanone		49000	U
126-48-1	Dibromochloromethane		49000	U
108-90-7	Chlorobenzene		25000	U
100-41-4	Ethylbenzene		110000	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-4 DL

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4828 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4828.05

Sample wt/vol: 11.2 (g/ml) G Lab File ID: VB004437.D

Level: (low/med) MED Date Received: 9/29/99

% Moisture: not dec. 8.99 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 0.5 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	440000	
1330-20-7	o-Xylene	140000	
100-42-5	Styrene	49000	U
75-25-2	Bromoform	49000	U
79-34-5	1,1,2,2-Tetrachloroethane	49000	U

METALS

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

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4828.01-.05
Sample Received: 09/29/99
Analysis Start: 10/01/99
Analysis Completed: 10/01/99

Site: Bldg. 699

Matrix: Soils

Method of Analysis: E.P.A. SW-846, Method 7420
Method of Digestion: E.P.A. SW-846, Method 3051A

TEST PARAMETER: Lead

Laboratory I.D. #	Sample Location	RESULT (mg/Kg)	MDL (mg/Kg)
4828.01	Piping Sample-1 3.5-4.0ft	ND	11.22
4828.02	PS-2 3.0-3.5ft	ND	11.13
4828.03	PS-3 2.5-3.0ft	ND	12.01
4828.04	PS-3 Duplicate	ND	9.86
4828.05	PS-4 2.5-3.0ft	ND	10.94

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable


Daniel K. Wright
Laboratory Director

10-141-99

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS

PHONE: (732) 532-6224 FAX: (732) 532-6263

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

CERTIFICATIONS: NJDEP #13461, NYSDOH #11699



ANALYTICAL DATA REPORT Fort Monmouth Environmental Laboratory ENVIRONMENTAL DIVISION Fort Monmouth, New Jersey PROJECT: IJO# 99-0008

Bldg. 699

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
Piping Sample 5/3.0-3.5'	4834.01	Soil	30-Sept-99 14:20	10/04/99
PS-6/3.0-3.5'	4834.02	Soil	30-Sept-99 14:30	10/04/99
PS-6/Duplicate	4834.03	Soil	30-Sept-99 14:30	10/04/99
Trip Blank	4834.04	Methanol	30-Sept-99	10/04/99

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
VOA+15, LEAD, %SOLIDS

ENCLOSURE:
CHAIN OF CUSTODY
RESULTS

 10/15/99
Daniel Wright/Date
Laboratory Director

NJDEP Certification #13461

Chain of Custody Record

Customer: Charles Appleby		Project No: 99-0008		Analysis Parameters						Comments:	
Phone #: X26224		Location: BLDG. 699								*= Samples Kept <4 Celsius	
(X) IDERA () OMA UST Assessment		UST#									
Samplers Name / Company : Frank Accorsi/TVS				Sample #							
Lab Sample I.D.	Sample Location	Date	Time	Type	bottles	% SOLIDS	VOA+10	VOA ID Number	PID Reading	Remarks / Preservation Method	
4834 01	PIPELINE SAMPLE - 5, 3.0-3.5 FT	9-30-99	1420	SOIL	2	X	X	844	280	ICE	
02	PS-6, 3.0-3.5 FT		1430		2	X	X	845	260		
03	PS-6 DUPLICATE		1430		2	X	X	846	260		
04	TRIP BLANK		-	AQ	1		X	843	-		
OVM sn#580U-64455.343 was calibrated with zero air & w/ 245 ppm Isobutylene read 245 ppm. 1330/9-30-99 FAH (time/date & initial)											
Relinquished by (signature): Frank Accorsi		Date/Time: 10-4-99 0950		Received by (signature): <i>[Signature]</i>		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: () Full, () Reduced, (X) Standard, () Screen / non-certified						Dedicated Sampling Tools Used					
Turnaround time: () Standard 3 wks, () Rush Days, () ASAP Verbal Hrs.						All sample points have been GPS? () YES (X) NO () NA					

Method Summary

EPA SW-846 Method 8260

Gas Chromatographic Determination of Volatiles in Soil

A 5-gram volume of soil sample is added to a 5-ml aliquot of water. Surrogates and internal standards are added and the sample is placed on a purge and trap concentrator. The sample is purged and desorbed into a GC/MS system. Volatiles are identified and quantitated. The final concentration is calculated using soil weight, percent moisture and concentration.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

Vb1k135

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4834 Location: Bldg69 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: Vb1k135

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004398.D

Level: (low/med) MED Date Received: 10/4/99

% Moisture: not dec. 0 Date Analyzed: 10/4/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein		1800	U
107131	Acrylonitrile		1800	U
75650	tert-Butyl alcohol		3200	U
1634044	Methyl-tert-Butyl ether		750	U
108203	Di-isopropyl ether		500	U
	Dichlorodifluoromethane		1000	U
74-87-3	Chloromethane		250	U
75-01-4	Vinyl Chloride		750	U
74-83-9	Bromomethane		500	U
75-00-3	Chloroethane		750	U
75-69-4	Trichlorofluoromethane		500	U
75-35-4	1,1-Dichloroethene		250	U
67-64-1	Acetone		500	U
75-15-0	Carbon Disulfide		250	U
75-09-2	Methylene Chloride		500	U
156-60-5	trans-1,2-Dichloroethene		500	U
75-35-3	1,1-Dichloroethane		250	U
108-05-4	Vinyl Acetate		750	U
78-93-3	2-Butanone		750	U
	cis-1,2-Dichloroethene		250	U
67-66-3	Chloroform		250	U
75-55-6	1,1,1-Trichloroethane		250	U
56-23-5	Carbon Tetrachloride		500	U
71-43-2	Benzene		250	U
107-06-2	1,2-Dichloroethane		500	U
79-01-6	Trichloroethene		250	U
78-87-5	1,2-Dichloropropane		250	U
75-27-4	Bromodichloromethane		250	U
110-75-8	2-Chloroethyl vinyl ether		500	U
10061-01-5	cis-1,3-Dichloropropene		250	U
108-10-1	4-Methyl-2-Pentanone		500	U
108-88-3	Toluene		250	U
10061-02-6	trans-1,3-Dichloropropene		500	U
79-00-5	1,1,2-Trichloroethane		500	U
127-18-4	Tetrachloroethene		250	U
591-78-6	2-Hexanone		500	U
126-48-1	Dibromochloromethane		500	U
108-90-7	Chlorobenzene		250	U
100-41-4	Ethylbenzene		500	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

Vblk135

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4834 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: Vblk135

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004398.D

Level: (low/med) MED Date Received: 10/4/99

% Moisture: not dec. 0 Date Analyzed: 10/4/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	750	U
1330-20-7	o-Xylene	500	U
100-42-5	Styrene	500	U
75-25-2	Bromoform	500	U
79-34-5	1,1,2,2-Tetrachloroethane	500	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

VbIk135

Lab Name: FMETL NJDEP#: 13461
Project: 990008 Case No.: 4834 Location: Bldg69 SDG No.: _____
Matrix: (soil/water) SOIL Lab Sample ID: VbIk135
Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004398.D
Level: (low/med) MED Date Received: 10/4/99
% Moisture: not dec. 0 Date Analyzed: 10/4/99
GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KGNumber TICs found: 0

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

Vblk136

Lab Name: FMETL NJDEP#: 13461
 Project: 990008 Case No.: 4834 Location: Bldg69 SDG No.:
 Matrix: (soil/water) SOIL Lab Sample ID: Vblk136
 Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004428.D
 Level: (low/med) MED Date Received: 10/4/99
 % Moisture: not dec. 0 Date Analyzed: 10/5/99
 GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein		1800	U
107131	Acrylonitrile		1800	U
75650	tert-Butyl alcohol		3200	U
1634044	Methyl-tert-Butyl ether		750	U
108203	Di-isopropyl ether		500	U
	Dichlorodifluoromethane		1000	U
74-87-3	Chloromethane		250	U
75-01-4	Vinyl Chloride		750	U
74-83-9	Bromomethane		500	U
75-00-3	Chloroethane		750	U
75-69-4	Trichlorofluoromethane		500	U
75-35-4	1,1-Dichloroethene		250	U
67-64-1	Acetone		500	U
75-15-0	Carbon Disulfide		250	U
75-09-2	Methylene Chloride		500	U
156-60-5	trans-1,2-Dichloroethene		500	U
75-35-3	1,1-Dichloroethane		250	U
108-05-4	Vinyl Acetate		750	U
78-93-3	2-Butanone		750	U
	cis-1,2-Dichloroethene		250	U
67-66-3	Chloroform		250	U
75-55-6	1,1,1-Trichloroethane		250	U
56-23-5	Carbon Tetrachloride		500	U
71-43-2	Benzene		250	U
107-06-2	1,2-Dichloroethane		500	U
79-01-6	Trichloroethene		250	U
78-87-5	1,2-Dichloropropane		250	U
75-27-4	Bromodichloromethane		250	U
110-75-8	2-Chloroethyl vinyl ether		500	U
10061-01-5	cis-1,3-Dichloropropene		250	U
108-10-1	4-Methyl-2-Pentanone		500	U
108-88-3	Toluene		250	U
10061-02-6	trans-1,3-Dichloropropene		500	U
79-00-5	1,1,2-Trichloroethane		500	U
127-18-4	Tetrachloroethene		250	U
591-78-6	2-Hexanone		500	U
126-48-1	Dibromochloromethane		500	U
108-90-7	Chlorobenzene		250	U
100-41-4	Ethylbenzene		500	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

Vblk136

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4834 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: Vblk136

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004428.D

Level: (low/med) MED Date Received: 10/4/99

% Moisture: not dec. 0 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	750	U
1330-20-7	o-Xylene	500	U
100-42-5	Styrene	500	U
75-25-2	Bromoform	500	U
79-34-5	1,1,2,2-Tetrachloroethane	500	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

Vblk136

Lab Name: FMETL NJDEP#: 13461
Project: 990008 Case No.: 4834 Location: Bldg69 SDG No.:
Matrix: (soil/water) SOIL Lab Sample ID: Vblk136
Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004428.D
Level: (low/med) MED Date Received: 10/4/99
% Moisture: not dec. 0 Date Analyzed: 10/5/99
GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 0

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

Trip Blank

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4834 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4834.04

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004399.D

Level: (low/med) MED Date Received: 10/4/99

% Moisture: not dec. 0 Date Analyzed: 10/4/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein		1800	U
107131	Acrylonitrile		1800	U
75650	tert-Butyl alcohol		3200	U
1634044	Methyl-tert-Butyl ether		750	U
108203	Di-isopropyl ether		500	U
	Dichlorodifluoromethane		1000	U
74-87-3	Chloromethane		250	U
75-01-4	Vinyl Chloride		750	U
74-83-9	Bromomethane		500	U
75-00-3	Chloroethane		750	U
75-69-4	Trichlorofluoromethane		500	U
75-35-4	1,1-Dichloroethene		250	U
67-64-1	Acetone		500	U
75-15-0	Carbon Disulfide		250	U
75-09-2	Methylene Chloride		2500	
156-60-5	trans-1,2-Dichloroethene		500	U
75-35-3	1,1-Dichloroethane		250	U
108-05-4	Vinyl Acetate		750	U
78-93-3	2-Butanone		750	U
	cis-1,2-Dichloroethene		250	U
67-66-3	Chloroform		250	U
75-55-6	1,1,1-Trichloroethane		250	U
56-23-5	Carbon Tetrachloride		500	U
71-43-2	Benzene		250	U
107-06-2	1,2-Dichloroethane		500	U
79-01-6	Trichloroethene		250	U
78-87-5	1,2-Dichloropropane		250	U
75-27-4	Bromodichloromethane		250	U
110-75-8	2-Chloroethyl vinyl ether		500	U
10061-01-5	cis-1,3-Dichloropropene		250	U
108-10-1	4-Methyl-2-Pentanone		500	U
108-88-3	Toluene		250	U
10061-02-6	trans-1,3-Dichloropropene		500	U
79-00-5	1,1,2-Trichloroethane		500	U
127-18-4	Tetrachloroethene		250	U
591-78-6	2-Hexanone		500	U
126-48-1	Dibromochloromethane		500	U
108-90-7	Chlorobenzene		250	U
100-41-4	Ethylbenzene		500	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

Trip Blank

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4834 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4834.04

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004399.D

Level: (low/med) MED Date Received: 10/4/99

% Moisture: not dec. 0 Date Analyzed: 10/4/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
1330-20-7	m+p-Xylenes		750	U
1330-20-7	o-Xylene		500	U
100-42-5	Styrene		500	U
75-25-2	Bromoform		500	U
79-34-5	1,1,2,2-Tetrachloroethane		500	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

Trip Blank

Lab Name: FMETL NJDEP#: 13461
Project: 990008 Case No.: 4834 Location: Bldg69 SDG No.:
Matrix: (soil/water) SOIL Lab Sample ID: 4834.04
Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004399.D
Level: (low/med) MED Date Received: 10/4/99
% Moisture: not dec. 0 Date Analyzed: 10/4/99
GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KGNumber TICs found: 0

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-5

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4834 Location: Bldg69 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 4834.01

Sample wt/vol: 11.0 (g/ml) G Lab File ID: VB004408.D

Level: (low/med) MED Date Received: 10/4/99

% Moisture: not dec. 12.76 Date Analyzed: 10/4/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

107028	Acrolein	1800	U
107131	Acrylonitrile	1800	U
75650	tert-Butyl alcohol	3400	U
1634044	Methyl-tert-Butyl ether	790	U
108203	Di-isopropyl ether	520	U
	Dichlorodifluoromethane	1000	U
74-87-3	Chloromethane	260	U
75-01-4	Vinyl Chloride	790	U
74-83-9	Bromomethane	520	U
75-00-3	Chloroethane	790	U
75-69-4	Trichlorofluoromethane	520	U
75-35-4	1,1-Dichloroethene	260	U
67-64-1	Acetone	520	U
75-15-0	Carbon Disulfide	260	U
75-09-2	Methylene Chloride	520	U
156-60-5	trans-1,2-Dichloroethene	520	U
75-35-3	1,1-Dichloroethane	260	U
108-05-4	Vinyl Acetate	790	U
78-93-3	2-Butanone	790	U
	cis-1,2-Dichloroethene	260	U
67-66-3	Chloroform	260	U
75-55-6	1,1,1-Trichloroethane	260	U
56-23-5	Carbon Tetrachloride	520	U
71-43-2	Benzene	3000	
107-06-2	1,2-Dichloroethane	520	U
79-01-6	Trichloroethene	260	U
78-87-5	1,2-Dichloropropane	260	U
75-27-4	Bromodichloromethane	260	U
110-75-8	2-Chloroethyl vinyl ether	520	U
10061-01-5	cis-1,3-Dichloropropene	260	U
108-10-1	4-Methyl-2-Pentanone	520	U
108-88-3	Toluene	1500	
10061-02-6	trans-1,3-Dichloropropene	520	U
79-00-5	1,1,2-Trichloroethane	520	U
127-18-4	Tetrachloroethene	260	U
591-78-6	2-Hexanone	520	U
126-48-1	Dibromochloromethane	520	U
108-90-7	Chlorobenzene	260	U
100-41-4	Ethylbenzene	71000	E

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-5

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4834 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4834.01

Sample wt/vol: 11.0 (g/ml) G Lab File ID: VB004408.D

Level: (low/med) MED Date Received: 10/4/99

% Moisture: not dec. 12.76 Date Analyzed: 10/4/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	230000	E
1330-20-7	o-Xylene	68000	E
100-42-5	Styrene	520	U
75-25-2	Bromoform	520	U
79-34-5	1,1,2,2-Tetrachloroethane	520	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

PS-5

Lab Name: FMETL NJDEP#: 13461
 Project: 990008 Case No.: 4834 Location: Bldg69 SDG No.:
 Matrix: (soil/water) SOIL Lab Sample ID: 4834.01
 Sample wt/vol: 11.0 (g/ml) G Lab File ID: VB004408.D
 Level: (low/med) MED Date Received: 10/4/99
 % Moisture: not dec. 12.76 Date Analyzed: 10/4/99
 GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 15

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	25.84	86000	J
2.	unknown	26.17	61000	J
3. 000111-84-2	Nonane	27.18	63000	JN
4.	unknown	28.60	49000	J
5.	unknown	29.26	34000	J
6. 000098-82-8	Benzene, (1-methylethyl)-	29.85	32000	JN
7. 000103-65-1	Benzene, propyl-	30.83	53000	JN
8. 000620-14-4	Benzene, 1-ethyl-3-methyl-	31.07	200000	JN
9. 000108-67-8	Benzene, 1,3,5-trimethyl-	31.21	80000	JN
10. 000611-14-3	Benzene, 1-ethyl-2-methyl-	31.82	59000	JN
11.	unknown	32.15	210000	J
12. 000091-20-3	Naphthalene	32.70	33000	JN
13. 000095-36-3	1,2,4-Trimethylbenzene	33.25	65000	JN
14. 001074-43-7	Benzene, 1-methyl-3-propyl-	33.59	53000	JN
15.	unknown	33.76	59000	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-5 DL

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4834 Location: Bldg69 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 4834.01

Sample wt/vol: 11.0 (g/ml) G Lab File ID: VB004432.D

Level: (low/med) MED Date Received: 10/4/99

% Moisture: not dec. 12.76 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein		18000	U
107131	Acrylonitrile		18000	U
75650	tert-Butyl alcohol		34000	U
1634044	Methyl-tert-Butyl ether		7900	U
108203	Di-isopropyl ether		5200	U
	Dichlorodifluoromethane		10000	U
74-87-3	Chloromethane		2600	U
75-01-4	Vinyl Chloride		7900	U
74-83-9	Bromomethane		5200	U
75-00-3	Chloroethane		7900	U
75-69-4	Trichlorofluoromethane		5200	U
75-35-4	1,1-Dichloroethene		2600	U
67-64-1	Acetone		5200	U
75-15-0	Carbon Disulfide		2600	U
75-09-2	Methylene Chloride		5200	U
156-60-5	trans-1,2-Dichloroethene		5200	U
75-35-3	1,1-Dichloroethane		2600	U
108-05-4	Vinyl Acetate		7900	U
78-93-3	2-Butanone		7900	U
	cis-1,2-Dichloroethene		2600	U
67-66-3	Chloroform		2600	U
75-55-6	1,1,1-Trichloroethane		2600	U
56-23-5	Carbon Tetrachloride		5200	U
71-43-2	Benzene		2700	D
107-06-2	1,2-Dichloroethane		5200	U
79-01-6	Trichloroethene		2600	U
78-87-5	1,2-Dichloropropane		2600	U
75-27-4	Bromodichloromethane		2600	U
110-75-8	2-Chloroethyl vinyl ether		5200	U
10061-01-5	cis-1,3-Dichloropropene		2600	U
108-10-1	4-Methyl-2-Pentanone		5200	U
108-88-3	Toluene		2600	U
10061-02-6	trans-1,3-Dichloropropene		5200	U
79-00-5	1,1,2-Trichloroethane		5200	U
127-18-4	Tetrachloroethene		2600	U
591-78-6	2-Hexanone		5200	U
126-48-1	Dibromochloromethane		5200	U
108-90-7	Chlorobenzene		2600	U
100-41-4	Ethylbenzene		97000	D

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-5 DL

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4834 Location: Bldg69 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 4834.01

Sample wt/vol: 11.0 (g/ml) G Lab File ID: VB004432.D

Level: (low/med) MED Date Received: 10/4/99

% Moisture: not dec. 12.76 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
1330-20-7	m+p-Xylenes		400000	D
1330-20-7	o-Xylene		66000	D
100-42-5	Styrene		5200	U
75-25-2	Bromoform		5200	U
79-34-5	1,1,2,2-Tetrachloroethane		5200	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-6

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4834 Location: Bldg69 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 4834.02

Sample wt/vol: 10.6 (g/ml) G Lab File ID: VB004409.D

Level: (low/med) MED Date Received: 10/4/99

% Moisture: not dec. 15.9 Date Analyzed: 10/4/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein		2000	U
107131	Acrylonitrile		2000	U
75650	tert-Butyl alcohol		3700	U
1634044	Methyl-tert-Butyl ether		850	U
108203	Di-isopropyl ether		560	U
	Dichlorodifluoromethane		1100	U
74-87-3	Chloromethane		280	U
75-01-4	Vinyl Chloride		850	U
74-83-9	Bromomethane		560	U
75-00-3	Chloroethane		850	U
75-69-4	Trichlorofluoromethane		560	U
75-35-4	1,1-Dichloroethene		280	U
67-64-1	Acetone		560	U
75-15-0	Carbon Disulfide		280	U
75-09-2	Methylene Chloride		560	U
156-60-5	trans-1,2-Dichloroethene		560	U
75-35-3	1,1-Dichloroethane		280	U
108-05-4	Vinyl Acetate		850	U
78-93-3	2-Butanone		850	U
	cis-1,2-Dichloroethene		280	U
67-66-3	Chloroform		280	U
75-55-6	1,1,1-Trichloroethane		280	U
56-23-5	Carbon Tetrachloride		560	U
71-43-2	Benzene		2700	
107-06-2	1,2-Dichloroethane		560	U
79-01-6	Trichloroethene		280	U
78-87-5	1,2-Dichloropropane		280	U
75-27-4	Bromodichloromethane		280	U
110-75-8	2-Chloroethyl vinyl ether		560	U
10061-01-5	cis-1,3-Dichloropropene		280	U
108-10-1	4-Methyl-2-Pentanone		560	U
108-88-3	Toluene		1600	
10061-02-6	trans-1,3-Dichloropropene		560	U
79-00-5	1,1,2-Trichloroethane		560	U
127-18-4	Tetrachloroethene		280	U
591-78-6	2-Hexanone		560	U
126-48-1	Dibromochloromethane		560	U
108-90-7	Chlorobenzene		280	U
100-41-4	Ethylbenzene		48000	E

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-6

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4834 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4834.02

Sample wt/vol: 10.6 (g/ml) G Lab File ID: VB004409.D

Level: (low/med) MED Date Received: 10/4/99

% Moisture: not dec. 15.9 Date Analyzed: 10/4/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
1330-20-7	m+p-Xylenes		160000	E
1330-20-7	o-Xylene		16000	
100-42-5	Styrene		560	U
75-25-2	Bromoform		560	U
79-34-5	1,1,2,2-Tetrachloroethane		560	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

PS-6

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4834 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4834.02

Sample wt/vol: 10.6 (g/ml) G Lab File ID: VB004409.D

Level: (low/med) MED Date Received: 10/4/99

% Moisture: not dec. 15.9 Date Analyzed: 10/4/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 15

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	18.61	63000	J
2. 000565-75-3	Pentane, 2,3,4-trimethyl-	21.29	59000	JN
3. 000560-21-4	Pentane, 2,3,3-trimethyl-	21.66	79000	JN
4. 000589-81-1	Heptane, 3-methyl-	22.16	73000	JN
5. 000111-65-9	Octane	23.30	58000	JN
6.	unknown	25.84	85000	J
7.	unknown	26.16	68000	J
8. 000111-84-2	Nonane	27.18	53000	JN
9.	unknown	31.07	210000	J
10. 000526-73-8	Benzene, 1,2,3-trimethyl-	31.21	95000	JN
11. 000611-14-3	Benzene, 1-ethyl-2-methyl-	31.82	62000	JN
12.	unknown	32.15	220000	J
13. 000526-73-8	Benzene, 1,2,3-trimethyl-	33.25	76000	JN
14.	unknown	33.59	66000	J
15.	unknown	33.76	97000	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-6 DL

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4834 Location: Bldg69 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 4834.02

Sample wt/vol: 10.6 (g/ml) G Lab File ID: VB004433.D

Level: (low/med) MED Date Received: 10/4/99

% Moisture: not dec. 15.9 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein	20000	U	U
107131	Acrylonitrile	20000	U	U
75650	tert-Butyl alcohol	37000	U	U
1634044	Methyl-tert-Butyl ether	8500	U	U
108203	Di-isopropyl ether	5600	U	U
	Dichlorodifluoromethane	11000	U	U
74-87-3	Chloromethane	2800	U	U
75-01-4	Vinyl Chloride	8500	U	U
74-83-9	Bromomethane	5600	U	U
75-00-3	Chloroethane	8500	U	U
75-69-4	Trichlorofluoromethane	5600	U	U
75-35-4	1,1-Dichloroethene	2800	U	U
67-64-1	Acetone	5600	U	U
75-15-0	Carbon Disulfide	2800	U	U
75-09-2	Methylene Chloride	5600	U	U
156-60-5	trans-1,2-Dichloroethene	5600	U	U
75-35-3	1,1-Dichloroethane	2800	U	U
108-05-4	Vinyl Acetate	8500	U	U
78-93-3	2-Butanone	8500	U	U
	cis-1,2-Dichloroethene	2800	U	U
67-66-3	Chloroform	2800	U	U
75-55-6	1,1,1-Trichloroethane	2800	U	U
56-23-5	Carbon Tetrachloride	5600	U	U
71-43-2	Benzene	2800	U	U
107-06-2	1,2-Dichloroethane	5600	U	U
79-01-6	Trichloroethene	2800	U	U
78-87-5	1,2-Dichloropropane	2800	U	U
75-27-4	Bromodichloromethane	2800	U	U
110-75-8	2-Chloroethyl vinyl ether	5600	U	U
10061-01-5	cis-1,3-Dichloropropene	2800	U	U
108-10-1	4-Methyl-2-Pentanone	5600	U	U
108-88-3	Toluene	2800	U	U
10061-02-6	trans-1,3-Dichloropropene	5600	U	U
79-00-5	1,1,2-Trichloroethane	5600	U	U
127-18-4	Tetrachloroethene	2800	U	U
591-78-6	2-Hexanone	5600	U	U
126-48-1	Dibromochloromethane	5600	U	U
108-90-7	Chlorobenzene	2800	U	U
100-41-4	Ethylbenzene	120000	D	D

VOLATILE ORGANICS ANALYSIS DATA SHEET

PS-6 DL

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4834 Location: Bldg69 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 4834.02

Sample wt/vol: 10.6 (g/ml) G Lab File ID: VB004433.D

Level: (low/med) MED Date Received: 10/4/99

% Moisture: not dec. 15.9 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
1330-20-7	m+p-Xylenes		510000	D
1330-20-7	o-Xylene		22000	D
100-42-5	Styrene		5600	U
75-25-2	Bromoform		5600	U
79-34-5	1,1,2,2-Tetrachloroethane		5600	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-6 Duplicate

Lab Name: FMETL NJDEP#: 13461
 Project: 990008 Case No.: 4834 Location: Bldg69 SDG No.:
 Matrix: (soil/water) SOIL Lab Sample ID: 4834.03
 Sample wt/vol: 10.8 (g/ml) G Lab File ID: VB004410.D
 Level: (low/med) MED Date Received: 10/4/99
 % Moisture: not dec. 12.95 Date Analyzed: 10/4/99
 GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein	1900		U
107131	Acrylonitrile	1900		U
75650	tert-Butyl alcohol	3500		U
1634044	Methyl-tert-Butyl ether	800		U
108203	Di-isopropyl ether	530		U
	Dichlorodifluoromethane	1100		U
74-87-3	Chloromethane	270		U
75-01-4	Vinyl Chloride	800		U
74-83-9	Bromomethane	530		U
75-00-3	Chloroethane	800		U
75-69-4	Trichlorofluoromethane	530		U
75-35-4	1,1-Dichloroethene	270		U
67-64-1	Acetone	530		U
75-15-0	Carbon Disulfide	270		U
75-09-2	Methylene Chloride	530		U
156-60-5	trans-1,2-Dichloroethene	530		U
75-35-3	1,1-Dichloroethane	270		U
108-05-4	Vinyl Acetate	800		U
78-93-3	2-Butanone	800		U
	cis-1,2-Dichloroethene	270		U
67-66-3	Chloroform	270		U
75-55-6	1,1,1-Trichloroethane	270		U
56-23-5	Carbon Tetrachloride	530		U
71-43-2	Benzene	2300		
107-06-2	1,2-Dichloroethane	530		U
79-01-6	Trichloroethene	270		U
78-87-5	1,2-Dichloropropane	270		U
75-27-4	Bromodichloromethane	270		U
110-75-8	2-Chloroethyl vinyl ether	530		U
10061-01-5	cis-1,3-Dichloropropene	270		U
108-10-1	4-Methyl-2-Pentanone	530		U
108-88-3	Toluene	1800		
10061-02-6	trans-1,3-Dichloropropene	530		U
79-00-5	1,1,2-Trichloroethane	530		U
127-18-4	Tetrachloroethene	270		U
591-78-6	2-Hexanone	530		U
126-48-1	Dibromochloromethane	530		U
108-90-7	Chlorobenzene	270		U
100-41-4	Ethylbenzene	36000		E

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-6 Duplicate

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4834 Location: Bldg69 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 4834.03

Sample wt/vol: 10.8 (g/ml) G Lab File ID: VB004410.D

Level: (low/med) MED Date Received: 10/4/99

% Moisture: not dec. 12.95 Date Analyzed: 10/4/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	120000	E
1330-20-7	o-Xylene	11000	
100-42-5	Styrene	530	U
75-25-2	Bromoform	530	U
79-34-5	1,1,2,2-Tetrachloroethane	530	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

PS-6 Duplicate

Lab Name: FMETL NJDEP#: 13461
 Project: 990008 Case No.: 4834 Location: Bldg69 SDG No.:
 Matrix: (soil/water) SOIL Lab Sample ID: 4834.03
 Sample wt/vol: 10.8 (g/ml) G Lab File ID: VB004410.D
 Level: (low/med) MED Date Received: 10/4/99
 % Moisture: not dec. 12.95 Date Analyzed: 10/4/99
 GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 15

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000142-82-5	Heptane	18.61	57000	JN
2. 000565-75-3	Pentane, 2,3,4-trimethyl-	21.29	57000	JN
3.	unknown	21.66	71000	J
4.	unknown	22.16	66000	J
5. 000111-65-9	Octane	23.30	55000	JN
6. 002216-34-4	Octane, 4-methyl-	25.84	87000	JN
7.	unknown	26.17	69000	J
8. 000111-84-2	Nonane	27.19	65000	JN
9.	unknown	31.07	180000	J
10. 000611-14-3	Benzene, 1-ethyl-2-methyl-	31.21	85000	JN
11. 000095-36-3	1,2,4-Trimethylbenzene	31.82	48000	JN
12.	unknown	32.15	190000	J
13. 000526-73-8	Benzene, 1,2,3-trimethyl-	33.25	67000	JN
14.	unknown	33.59	64000	J
15. 021195-59-5	1,3,8-p-Menthatriene	33.76	95000	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-6 Duplicate DL

Lab Name: FMETL NJDEP#: 13461
 Project: 990008 Case No.: 4834 Location: Bldg69 SDG No.:
 Matrix: (soil/water) SOIL Lab Sample ID: 4834.03
 Sample wt/vol: 10.8 (g/ml) G Lab File ID: VB004434.D
 Level: (low/med) MED Date Received: 10/4/99
 % Moisture: not dec. 12.95 Date Analyzed: 10/5/99
 GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 10.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein	19000		U
107131	Acrylonitrile	19000		U
75650	tert-Butyl alcohol	35000		U
1634044	Methyl-tert-Butyl ether	8000		U
108203	Di-isopropyl ether	5300		U
	Dichlorodifluoromethane	11000		U
74-87-3	Chloromethane	2700		U
75-01-4	Vinyl Chloride	8000		U
74-83-9	Bromomethane	5300		U
75-00-3	Chloroethane	8000		U
75-69-4	Trichlorofluoromethane	5300		U
75-35-4	1,1-Dichloroethene	2700		U
67-64-1	Acetone	5300		U
75-15-0	Carbon Disulfide	2700		U
75-09-2	Methylene Chloride	5300		U
156-60-5	trans-1,2-Dichloroethene	5300		U
75-35-3	1,1-Dichloroethane	2700		U
108-05-4	Vinyl Acetate	8000		U
78-93-3	2-Butanone	8000		U
	cis-1,2-Dichloroethene	2700		U
67-66-3	Chloroform	2700		U
75-55-6	1,1,1-Trichloroethane	2700		U
56-23-5	Carbon Tetrachloride	5300		U
71-43-2	Benzene	2700		U
107-06-2	1,2-Dichloroethane	5300		U
79-01-6	Trichloroethene	2700		U
78-87-5	1,2-Dichloropropane	2700		U
75-27-4	Bromodichloromethane	2700		U
110-75-8	2-Chloroethyl vinyl ether	5300		U
10061-01-5	cis-1,3-Dichloropropene	2700		U
108-10-1	4-Methyl-2-Pentanone	5300		U
108-88-3	Toluene	2700		U
10061-02-6	trans-1,3-Dichloropropene	5300		U
79-00-5	1,1,2-Trichloroethane	5300		U
127-18-4	Tetrachloroethene	2700		U
591-78-6	2-Hexanone	5300		U
126-48-1	Dibromochloromethane	5300		U
108-90-7	Chlorobenzene	2700		U
100-41-4	Ethylbenzene	130000		D

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-6 Duplicate DL

Lab Name: FMETL NJDEP#: 13461
 Project: 990008 Case No.: 4834 Location: Bldg69 SDG No.:
 Matrix: (soil/water) SOIL Lab Sample ID: 4834.03
 Sample wt/vol: 10.8 (g/ml) G Lab File ID: VB004434.D
 Level: (low/med) MED Date Received: 10/4/99
 % Moisture: not dec. 12.95 Date Analyzed: 10/5/99
 GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 10.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
1330-20-7	m+p-Xylenes		550000	D
1330-20-7	o-Xylene		20000	D
100-42-5	Styrene		5300	U
75-25-2	Bromoform		5300	U
79-34-5	1,1,2,2-Tetrachloroethane		5300	U

METALS

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

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4834.01-.03
Sample Received: 10/04/99
Analysis Start: 10/15/99
Analysis Completed: 10/15/99

Site: Ft. Monmouth
Bldg. 699

Matrix: Soil

Method of Analysis: Std. Methods 18th, Method 3111B
Method of Digestion: E.P.A. SW-846, Method 3051

TEST PARAMETER: Lead

Laboratory I.D. #	Sample Location	RESULT (mg/Kg)	MDL (mg/Kg)
4834.01	Piping Sample-5, 3.0-3.5ft	ND	12.46
4834.02	PS-6, 3.0-3.5ft	19.02	11.89
4834.03	PS-6, Duplicate	ND	12.49

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable


Daniel K. Wright
Laboratory Director

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS

PHONE: (732) 532-6224 FAX: (732) 532-6263

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

CERTIFICATIONS: NJDEP #13461, NYSDOH #11699



ANALYTICAL DATA REPORT Fort Monmouth Environmental Laboratory ENVIRONMENTAL DIVISION Fort Monmouth, New Jersey PROJECT: IJO# 99-0008

Bldg. 699

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
Piping Sample 7/2.5-3.0'	4838.01	Soil	04-Oct-99 14:20	10/05/99
PS-8/1.5-2.0'	4838.02	Soil	04-Oct-99 14:30	10/05/99
PS-8/Duplicate	4838.03	Soil	04-Oct-99 14:30	10/05/99
PS-9/1.5-2.0'	4838.04	Soil	05-Oct-99 09:40	10/05/99
Trip Blank	4838.05	Methanol	04-Oct-99	10/05/99

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
VOA+15, LEAD, %SOLIDS

ENCLOSURE:
CHAIN OF CUSTODY
RESULTS

 10-21-99
Daniel Wright/Date
Laboratory Director

NJDEP Certification #13461

Chain of Custody Record

[illegible]

Method Summary

EPA SW-846 Method 8260

Gas Chromatographic Determination of Volatiles in Soil

A 5-gram volume of soil sample is added to a 5-ml aliquot of water. Surrogates and internal standards are added and the sample is placed on a purge and trap concentrator. The sample is purged and desorbed into a GC/MS system. Volatiles are identified and quantitated. The final concentration is calculated using soil weight, percent moisture and concentration.

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEPE # 13461

Definition of Qualifiers

MDL : Method Detection Limit
J : Compound identified below detection limit
B : Compound in both sample and blank
D : Results from dilution of sample
U : Compound searched for but not detected
E : Compound exceeds calibration limit

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

Vblk136

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4838 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: Vblk136

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004428.D

Level: (low/med) MED Date Received: 10/5/99

% Moisture: not dec. 0 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein	1800	U	
107131	Acrylonitrile	1800	U	
75650	tert-Butyl alcohol	3200	U	
1634044	Methyl-tert-Butyl ether	750	U	
108203	Di-isopropyl ether	500	U	
	Dichlorodifluoromethane	1000	U	
74-87-3	Chloromethane	250	U	
75-01-4	Vinyl Chloride	750	U	
74-83-9	Bromomethane	500	U	
75-00-3	Chloroethane	750	U	
75-69-4	Trichlorofluoromethane	500	U	
75-35-4	1,1-Dichloroethene	250	U	
67-64-1	Acetone	500	U	
75-15-0	Carbon Disulfide	250	U	
75-09-2	Methylene Chloride	500	U	
156-60-5	trans-1,2-Dichloroethene	500	U	
75-35-3	1,1-Dichloroethane	250	U	
108-05-4	Vinyl Acetate	750	U	
78-93-3	2-Butanone	750	U	
	cis-1,2-Dichloroethene	250	U	
67-66-3	Chloroform	250	U	
75-55-6	1,1,1-Trichloroethane	250	U	
56-23-5	Carbon Tetrachloride	500	U	
71-43-2	Benzene	250	U	
107-06-2	1,2-Dichloroethane	500	U	
79-01-6	Trichloroethene	250	U	
78-87-5	1,2-Dichloropropane	250	U	
75-27-4	Bromodichloromethane	250	U	
110-75-8	2-Chloroethyl vinyl ether	500	U	
10061-01-5	cis-1,3-Dichloropropene	250	U	
108-10-1	4-Methyl-2-Pentanone	500	U	
108-88-3	Toluene	250	U	
10061-02-6	trans-1,3-Dichloropropene	500	U	
79-00-5	1,1,2-Trichloroethane	500	U	
127-18-4	Tetrachloroethene	250	U	
591-78-6	2-Hexanone	500	U	
126-48-1	Dibromochloromethane	500	U	
108-90-7	Chlorobenzene	250	U	
100-41-4	Ethylbenzene	500	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

Vblk136

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4838 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: Vblk136

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004428.D

Level: (low/med) MED Date Received: 10/5/99

% Moisture: not dec. 0 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	750	U
1330-20-7	o-Xylene	500	U
100-42-5	Styrene	500	U
75-25-2	Bromoform	500	U
79-34-5	1,1,2,2-Tetrachloroethane	500	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

Vblk136

Lab Name: FMETL NJDEP#: 13461
Project: 990008 Case No.: 4838 Location: Bldg69 SDG No.: _____
Matrix: (soil/water) SOIL Lab Sample ID: Vblk136
Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004428.D
Level: (low/med) MED Date Received: 10/5/99
% Moisture: not dec. 0 Date Analyzed: 10/5/99
GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

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

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

Trip Blank

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4838 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4838.05

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004446.D

Level: (low/med) MED Date Received: 10/5/99

% Moisture: not dec. 0 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

107028	Acrolein	1800	U
107131	Acrylonitrile	1800	U
75650	tert-Butyl alcohol	3200	U
1634044	Methyl-tert-Butyl ether	750	U
108203	Di-isopropyl ether	500	U
	Dichlorodifluoromethane	1000	U
74-87-3	Chloromethane	250	U
75-01-4	Vinyl Chloride	750	U
74-83-9	Bromomethane	500	U
75-00-3	Chloroethane	750	U
75-69-4	Trichlorofluoromethane	500	U
75-35-4	1,1-Dichloroethene	250	U
67-64-1	Acetone	500	U
75-15-0	Carbon Disulfide	250	U
75-09-2	Methylene Chloride	500	U
156-60-5	trans-1,2-Dichloroethene	500	U
75-35-3	1,1-Dichloroethane	250	U
108-05-4	Vinyl Acetate	750	U
78-93-3	2-Butanone	750	U
	cis-1,2-Dichloroethene	250	U
67-66-3	Chloroform	250	U
75-55-6	1,1,1-Trichloroethane	250	U
56-23-5	Carbon Tetrachloride	500	U
71-43-2	Benzene	250	U
107-06-2	1,2-Dichloroethane	500	U
79-01-6	Trichloroethene	250	U
78-87-5	1,2-Dichloropropane	250	U
75-27-4	Bromodichloromethane	250	U
110-75-8	2-Chloroethyl vinyl ether	500	U
10061-01-5	cis-1,3-Dichloropropene	250	U
108-10-1	4-Methyl-2-Pentanone	500	U
108-88-3	Toluene	250	U
10061-02-6	trans-1,3-Dichloropropene	500	U
79-00-5	1,1,2-Trichloroethane	500	U
127-18-4	Tetrachloroethene	250	U
591-78-6	2-Hexanone	500	U
126-48-1	Dibromochloromethane	500	U
108-90-7	Chlorobenzene	250	U
100-41-4	Ethylbenzene	500	U

1A

FIELD ID:

VOLATILE ORGANICS ANALYSIS DATA SHEET

Trip Blank

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4838 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4838.05

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004446.D

Level: (low/med) MED Date Received: 10/5/99

% Moisture: not dec. 0 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	750	U
1330-20-7	o-Xylene	500	U
100-42-5	Styrene	500	U
75-25-2	Bromoform	500	U
79-34-5	1,1,2,2-Tetrachloroethane	500	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

Trip Blank

Lab Name: FMETL NJDEP#: 13461
Project: 990008 Case No.: 4838 Location: Bldg69 SDG No.: _____
Matrix: (soil/water) SOIL Lab Sample ID: 4838.05
Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004446.D
Level: (low/med) MED Date Received: 10/5/99
% Moisture: not dec. 0 Date Analyzed: 10/5/99
GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

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

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-7

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4838 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4838.01

Sample wt/vol: 11.0 (g/ml) G Lab File ID: VB004438.D

Level: (low/med) MED Date Received: 10/5/99

% Moisture: not dec. 13.06 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 5 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein	18000	U	
107131	Acrylonitrile	18000	U	
75650	tert-Butyl alcohol	34000	U	
1634044	Methyl-tert-Butyl ether	7900	U	
108203	Di-isopropyl ether	5200	U	
	Dichlorodifluoromethane	10000	U	
74-87-3	Chloromethane	2600	U	
75-01-4	Vinyl Chloride	7900	U	
74-83-9	Bromomethane	5200	U	
75-00-3	Chloroethane	7900	U	
75-69-4	Trichlorofluoromethane	5200	U	
75-35-4	1,1-Dichloroethene	2600	U	
67-64-1	Acetone	5200	U	
75-15-0	Carbon Disulfide	2600	U	
75-09-2	Methylene Chloride	5200	U	
156-60-5	trans-1,2-Dichloroethene	5200	U	
75-35-3	1,1-Dichloroethane	2600	U	
108-05-4	Vinyl Acetate	7900	U	
78-93-3	2-Butanone	7900	U	
	cis-1,2-Dichloroethene	2600	U	
67-66-3	Chloroform	2600	U	
75-55-6	1,1,1-Trichloroethane	2600	U	
56-23-5	Carbon Tetrachloride	5200	U	
71-43-2	Benzene	7500		
107-06-2	1,2-Dichloroethane	5200	U	
79-01-6	Trichloroethene	2600	U	
78-87-5	1,2-Dichloropropane	2600	U	
75-27-4	Bromodichloromethane	2600	U	
110-75-8	2-Chloroethyl vinyl ether	5200	U	
10061-01-5	cis-1,3-Dichloropropene	2600	U	
108-10-1	4-Methyl-2-Pentanone	5200	U	
108-88-3	Toluene	29000		
10061-02-6	trans-1,3-Dichloropropene	5200	U	
79-00-5	1,1,2-Trichloroethane	5200	U	
127-18-4	Tetrachloroethene	2600	U	
591-78-6	2-Hexanone	5200	U	
126-48-1	Dibromochloromethane	5200	U	
108-90-7	Chlorobenzene	2600	U	
100-41-4	Ethylbenzene	260000		

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-7

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4838 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4838.01

Sample wt/vol: 11.0 (g/ml) G Lab File ID: VB004438.D

Level: (low/med) MED Date Received: 10/5/99

% Moisture: not dec. 13.06 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 5 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	1000000	E
1330-20-7	o-Xylene	190000	
100-42-5	Styrene	5200	U
75-25-2	Bromoform	5200	U
79-34-5	1,1,2,2-Tetrachloroethane	5200	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

PS-7

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4838 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4838.01

Sample wt/vol: 11.0 (g/ml) G Lab File ID: VB004438.D

Level: (low/med) MED Date Received: 10/5/99

% Moisture: not dec. 13.06 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 5 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 15

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000078-78-4	Butane, 2-methyl-	6.48	230000	JN
2. 000107-83-5	Pentane, 2-methyl-	10.76	520000	JN
3. 000096-14-0	Pentane, 3-methyl-	11.80	290000	JN
4. 000110-54-3	Hexane	12.83	290000	JN
5. 000096-37-7	Cyclopentane, methyl-	15.40	290000	JN
6. 000591-76-4	Hexane, 2-methyl-	16.75	410000	JN
7. 000565-59-3	Pentane, 2,3-dimethyl-	17.07	330000	JN
8. 000589-34-4	Hexane, 3-methyl-	17.33	480000	JN
9.	unknown	17.85	430000	J
10.	unknown	25.82	240000	J
11. 000611-14-3	Benzene, 1-ethyl-2-methyl-	31.05	720000	JN
12. 000526-73-8	Benzene, 1,2,3-trimethyl-	31.20	270000	JN
13. 000526-73-8	Benzene, 1,2,3-trimethyl-	32.13	800000	JN
14. 000095-36-3	1,2,4-Trimethylbenzene	33.24	200000	JN
15.	unknown	33.75	210000	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-7 DL

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4838 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4838.01

Sample wt/vol: 11.0 (g/ml) G Lab File ID: VB004442.D

Level: (low/med) MED Date Received: 10/5/99

% Moisture: not dec. 13.06 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 100.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

107028	Acrolein	180000	U
107131	Acrylonitrile	180000	U
75650	tert-Butyl alcohol	340000	U
1634044	Methyl-tert-Butyl ether	79000	U
108203	Di-isopropyl ether	52000	U
	Dichlorodifluoromethane	100000	U
74-87-3	Chloromethane	26000	U
75-01-4	Vinyl Chloride	79000	U
74-83-9	Bromomethane	52000	U
75-00-3	Chloroethane	79000	U
75-69-4	Trichlorofluoromethane	52000	U
75-35-4	1,1-Dichloroethene	26000	U
67-64-1	Acetone	52000	U
75-15-0	Carbon Disulfide	26000	U
75-09-2	Methylene Chloride	52000	U
156-60-5	trans-1,2-Dichloroethene	52000	U
75-35-3	1,1-Dichloroethane	26000	U
108-05-4	Vinyl Acetate	79000	U
78-93-3	2-Butanone	79000	U
	cis-1,2-Dichloroethene	26000	U
67-66-3	Chloroform	26000	U
75-55-6	1,1,1-Trichloroethane	26000	U
56-23-5	Carbon Tetrachloride	52000	U
71-43-2	Benzene	26000	U
107-06-2	1,2-Dichloroethane	52000	U
79-01-6	Trichloroethene	26000	U
78-87-5	1,2-Dichloropropane	26000	U
75-27-4	Bromodichloromethane	26000	U
110-75-8	2-Chloroethyl vinyl ether	52000	U
10061-01-5	cis-1,3-Dichloropropene	26000	U
108-10-1	4-Methyl-2-Pentanone	52000	U
108-88-3	Toluene	26000	U
10061-02-6	trans-1,3-Dichloropropene	52000	U
79-00-5	1,1,2-Trichloroethane	52000	U
127-18-4	Tetrachloroethene	26000	U
591-78-6	2-Hexanone	52000	U
126-48-1	Dibromochloromethane	52000	U
108-90-7	Chlorobenzene	26000	U
100-41-4	Ethylbenzene	230000	D

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-7 DL

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4838 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4838.01

Sample wt/vol: 11.0 (g/ml) G Lab File ID: VB004442.D

Level: (low/med) MED Date Received: 10/5/99

% Moisture: not dec. 13.06 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 100.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	870000	D
1330-20-7	o-Xylene	160000	D
100-42-5	Styrene	52000	U
75-25-2	Bromoform	52000	U
79-34-5	1,1,2,2-Tetrachloroethane	52000	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-8

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4838 Location: Bldg69 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 4838.02

Sample wt/vol: 10.4 (g/ml) G Lab File ID: VB004439.D

Level: (low/med) MED Date Received: 10/5/99

% Moisture: not dec. 12.27 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 5 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein	19000		U
107131	Acrylonitrile	19000		U
75650	tert-Butyl alcohol	35000		U
1634044	Methyl-tert-Butyl ether	8200		U
108203	Di-isopropyl ether	5400		U
	Dichlorodifluoromethane	11000		U
74-87-3	Chloromethane	2700		U
75-01-4	Vinyl Chloride	8200		U
74-83-9	Bromomethane	5400		U
75-00-3	Chloroethane	8200		U
75-69-4	Trichlorofluoromethane	5400		U
75-35-4	1,1-Dichloroethene	2700		U
67-64-1	Acetone	5400		U
75-15-0	Carbon Disulfide	2700		U
75-09-2	Methylene Chloride	5400		U
156-60-5	trans-1,2-Dichloroethene	5400		U
75-35-3	1,1-Dichloroethane	2700		U
108-05-4	Vinyl Acetate	8200		U
78-93-3	2-Butanone	8200		U
	cis-1,2-Dichloroethene	2700		U
67-66-3	Chloroform	2700		U
75-55-6	1,1,1-Trichloroethane	2700		U
56-23-5	Carbon Tetrachloride	5400		U
71-43-2	Benzene	3700		
107-06-2	1,2-Dichloroethane	5400		U
79-01-6	Trichloroethene	2700		U
78-87-5	1,2-Dichloropropane	2700		U
75-27-4	Bromodichloromethane	2700		U
110-75-8	2-Chloroethyl vinyl ether	5400		U
10061-01-5	cis-1,3-Dichloropropene	2700		U
108-10-1	4-Methyl-2-Pentanone	5400		U
108-88-3	Toluene	62000		
10061-02-6	trans-1,3-Dichloropropene	5400		U
79-00-5	1,1,2-Trichloroethane	5400		U
127-18-4	Tetrachloroethene	2700		U
591-78-6	2-Hexanone	5400		U
126-48-1	Dibromochloromethane	5400		U
108-90-7	Chlorobenzene	2700		U
100-41-4	Ethylbenzene	50000		

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-8

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4838 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4838.02

Sample wt/vol: 10.4 (g/ml) G Lab File ID: VB004439.D

Level: (low/med) MED Date Received: 10/5/99

% Moisture: not dec. 12.27 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 5 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	260000	
1330-20-7	o-Xylene	94000	
100-42-5	Styrene	5400	U
75-25-2	Bromoform	5400	U
79-34-5	1,1,2,2-Tetrachloroethane	5400	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

PS-8

Lab Name: FMETL NJDEP#: 13461
 Project: 990008 Case No.: 4838 Location: Bldg69 SDG No.:
 Matrix: (soil/water) SOIL Lab Sample ID: 4838.02
 Sample wt/vol: 10.4 (g/ml) G Lab File ID: VB004439.D
 Level: (low/med) MED Date Received: 10/5/99
 % Moisture: not dec. 12.27 Date Analyzed: 10/5/99
 GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 5 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 15

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000078-78-4	Butane, 2-methyl-	6.48	57000	JN
2. 000107-83-5	Pentane, 2-methyl-	10.78	100000	JN
3. 000096-14-0	Pentane, 3-methyl-	11.82	59000	JN
4. 000096-37-7	Cyclopentane, methyl-	15.41	58000	JN
5. 000591-76-4	Hexane, 2-methyl-	16.76	68000	JN
6. 000565-59-3	Pentane, 2,3-dimethyl-	17.08	60000	JN
7. 000589-34-4	Hexane, 3-methyl-	17.33	84000	JN
8.	unknown	17.85	86000	J
9. 000111-84-2	Nonane	27.17	70000	JN
10. 000611-14-3	Benzene, 1-ethyl-2-methyl-	31.05	190000	JN
11. 000526-73-8	Benzene, 1,2,3-trimethyl-	31.20	76000	JN
12. 000611-14-3	Benzene, 1-ethyl-2-methyl-	31.81	54000	JN
13. 000526-73-8	Benzene, 1,2,3-trimethyl-	32.13	230000	JN
14. 000611-14-3	Benzene, 1-ethyl-2-methyl-	33.24	58000	JN
15.	unknown	33.75	56000	J

1A

FIELD ID:

VOLATILE ORGANICS ANALYSIS DATA SHEET

PS-8 Duplicate

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4838 Location: Bldg69 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 4838.03

Sample wt/vol: 10.3 (g/ml) G Lab File ID: VB004440.D

Level: (low/med) MED Date Received: 10/5/99

% Moisture: not dec. 12.01 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 5 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

107028	Acrolein	19000	U
107131	Acrylonitrile	19000	U
75650	tert-Butyl alcohol	36000	U
1634044	Methyl-tert-Butyl ether	8300	U
108203	Di-isopropyl ether	5500	U
	Dichlorodifluoromethane	11000	U
74-87-3	Chloromethane	2800	U
75-01-4	Vinyl Chloride	8300	U
74-83-9	Bromomethane	5500	U
75-00-3	Chloroethane	8300	U
75-69-4	Trichlorofluoromethane	5500	U
75-35-4	1,1-Dichloroethene	2800	U
67-64-1	Acetone	5500	U
75-15-0	Carbon Disulfide	2800	U
75-09-2	Methylene Chloride	5500	U
156-60-5	trans-1,2-Dichloroethene	5500	U
75-35-3	1,1-Dichloroethane	2800	U
108-05-4	Vinyl Acetate	8300	U
78-93-3	2-Butanone	8300	U
	cis-1,2-Dichloroethene	2800	U
67-66-3	Chloroform	2800	U
75-55-6	1,1,1-Trichloroethane	2800	U
56-23-5	Carbon Tetrachloride	5500	U
71-43-2	Benzene	4300	
107-06-2	1,2-Dichloroethane	5500	U
79-01-6	Trichloroethene	2800	U
78-87-5	1,2-Dichloropropane	2800	U
75-27-4	Bromodichloromethane	2800	U
110-75-8	2-Chloroethyl vinyl ether	5500	U
10061-01-5	cis-1,3-Dichloropropene	2800	U
108-10-1	4-Methyl-2-Pentanone	5500	U
108-88-3	Toluene	63000	
10061-02-6	trans-1,3-Dichloropropene	5500	U
79-00-5	1,1,2-Trichloroethane	5500	U
127-18-4	Tetrachloroethene	2800	U
591-78-6	2-Hexanone	5500	U
126-48-1	Dibromochloromethane	5500	U
108-90-7	Chlorobenzene	2800	U
100-41-4	Ethylbenzene	57000	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-8 Duplicate

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4838 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4838.03

Sample wt/vol: 10.3 (g/ml) G Lab File ID: VB004440.D

Level: (low/med) MED Date Received: 10/5/99

% Moisture: not dec. 12.01 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 5 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	310000	
1330-20-7	o-Xylene	100000	
100-42-5	Styrene	5500	U
75-25-2	Bromoform	5500	U
79-34-5	1,1,2,2-Tetrachloroethane	5500	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

PS-8 Duplicate

Lab Name: FMETL NJDEP#: 13461
 Project: 990008 Case No.: 4838 Location: Bldg69 SDG No.:
 Matrix: (soil/water) SOIL Lab Sample ID: 4838.03
 Sample wt/vol: 10.3 (g/ml) G Lab File ID: VB004440.D
 Level: (low/med) MED Date Received: 10/5/99
 % Moisture: not dec. 12.01 Date Analyzed: 10/5/99
 GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 5 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 15

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000078-78-4	Butane, 2-methyl-	6.47	68000	JN
2. 000107-83-5	Pentane, 2-methyl-	10.78	120000	JN
3. 000096-14-0	Pentane, 3-methyl-	11.81	72000	JN
4. 000110-54-3	Hexane	12.84	63000	JN
5. 000096-37-7	Cyclopentane, methyl-	15.41	67000	JN
6. 000591-76-4	Hexane, 2-methyl-	16.76	83000	JN
7. 000589-34-4	Hexane, 3-methyl-	17.33	100000	JN
8.	unknown	17.85	54000	J
9. 000611-14-3	Benzene, 1-ethyl-2-methyl-	31.05	220000	JN
10. 000526-73-8	Benzene, 1,2,3-trimethyl-	31.20	98000	JN
11. 000611-14-3	Benzene, 1-ethyl-2-methyl-	31.81	80000	JN
12. 000526-73-8	Benzene, 1,2,3-trimethyl-	32.13	270000	JN
13. 000526-73-8	Benzene, 1,2,3-trimethyl-	33.24	71000	JN
14. 001074-43-7	Benzene, 1-methyl-3-propyl-	33.58	49000	JN
15.	unknown	33.75	76000	J

1A

FIELD ID:

VOLATILE ORGANICS ANALYSIS DATA SHEET

PS-9

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4838 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4838.04

Sample wt/vol: 10.6 (g/ml) G Lab File ID: VB004441.D

Level: (low/med) MED Date Received: 10/5/99

% Moisture: not dec. 14.48 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 5 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

107028	Acrolein	19000	U
107131	Acrylonitrile	19000	U
75650	tert-Butyl alcohol	36000	U
1634044	Methyl-tert-Butyl ether	8300	U
108203	Di-isopropyl ether	5500	U
	Dichlorodifluoromethane	11000	U
74-87-3	Chloromethane	2800	U
75-01-4	Vinyl Chloride	8300	U
74-83-9	Bromomethane	5500	U
75-00-3	Chloroethane	8300	U
75-69-4	Trichlorofluoromethane	5500	U
75-35-4	1,1-Dichloroethene	2800	U
67-64-1	Acetone	5500	U
75-15-0	Carbon Disulfide	2800	U
75-09-2	Methylene Chloride	5500	U
156-60-5	trans-1,2-Dichloroethene	5500	U
75-35-3	1,1-Dichloroethane	2800	U
108-05-4	Vinyl Acetate	8300	U
78-93-3	2-Butanone	8300	U
	cis-1,2-Dichloroethene	2800	U
67-66-3	Chloroform	2800	U
75-55-6	1,1,1-Trichloroethane	2800	U
56-23-5	Carbon Tetrachloride	5500	U
71-43-2	Benzene	2800	U
107-06-2	1,2-Dichloroethane	5500	U
79-01-6	Trichloroethene	2800	U
78-87-5	1,2-Dichloropropane	2800	U
75-27-4	Bromodichloromethane	2800	U
110-75-8	2-Chloroethyl vinyl ether	5500	U
10061-01-5	cis-1,3-Dichloropropene	2800	U
108-10-1	4-Methyl-2-Pentanone	5500	U
108-88-3	Toluene	3900	
10061-02-6	trans-1,3-Dichloropropene	5500	U
79-00-5	1,1,2-Trichloroethane	5500	U
127-18-4	Tetrachloroethene	2800	U
591-78-6	2-Hexanone	5500	U
126-48-1	Dibromochloromethane	5500	U
108-90-7	Chlorobenzene	2800	U
100-41-4	Ethylbenzene	32000	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

PS-9

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4838 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4838.04

Sample wt/vol: 10.6 (g/ml) G Lab File ID: VB004441.D

Level: (low/med) MED Date Received: 10/5/99

% Moisture: not dec. 14.48 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 5 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	170000	
1330-20-7	o-Xylene	35000	
100-42-5	Styrene	5500	U
75-25-2	Bromoform	5500	U
79-34-5	1,1,2,2-Tetrachloroethane	5500	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

PS-9

Lab Name: FMETL NJDEP#: 13461

Project: 990008 Case No.: 4838 Location: Bldg69 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 4838.04

Sample wt/vol: 10.6 (g/ml) G Lab File ID: VB004441.D

Level: (low/med) MED Date Received: 10/5/99

% Moisture: not dec. 14.48 Date Analyzed: 10/5/99

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 5 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 15

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000078-78-4	Butane, 2-methyl-	6.48	58000	JN
2. 000107-83-5	Pentane, 2-methyl-	10.80	110000	JN
3. 000096-14-0	Pentane, 3-methyl-	11.82	60000	JN
4. 000110-82-7	Cyclohexane	15.41	59000	JN
5. 000591-76-4	Hexane, 2-methyl-	16.76	67000	JN
6. 000565-59-3	Pentane, 2,3-dimethyl-	17.08	71000	JN
7. 000589-34-4	Hexane, 3-methyl-	17.33	80000	JN
8. 000594-82-1	Butane, 2,2,3,3-tetramethyl-	17.86	89000	JN
9. 000620-14-4	Benzene, 1-ethyl-3-methyl-	31.05	260000	JN
10. 000526-73-8	Benzene, 1,2,3-trimethyl-	31.20	110000	JN
11. 000611-14-3	Benzene, 1-ethyl-2-methyl-	31.81	69000	JN
12. 000526-73-8	Benzene, 1,2,3-trimethyl-	32.13	320000	JN
13. 000526-73-8	Benzene, 1,2,3-trimethyl-	33.24	83000	JN
14. 001074-43-7	Benzene, 1-methyl-3-propyl-	33.58	64000	JN
15.	unknown	33.75	93000	J

METALS

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

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4838.01-.04
Sample Received: 10/05/99
Analysis Start: 10/15/99
Analysis Completed: 10/15/99

Site: Ft. Monmouth
Bldg. 699

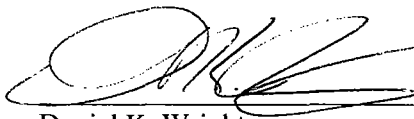
Matrix: Soil

Method of Analysis: Std. Methods 18th, Method 3111B
Method of Digestion: E.P.A. SW-846, Method 3051

TEST PARAMETER: Lead

Laboratory I.D. #	Sample Location	RESULT (mg/Kg)	MDL (mg/Kg)
4838.01	Piping Sample-7, 2.5-3.0ft	ND	11.06
4838.02	PS-8, 1.5-2.0ft	37.17	12.39
4838.03	PS-8, Duplicate	33.43	11.14
4838.04	PS-9, 1.5-2.0ft	25.98	10.83

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable


Daniel K. Wright
Laboratory Director

APPENDIX F

GROUNDWATER ANALYTICAL DATA PACKAGE

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS

PHONE: (732) 532-6224 FAX: (732) 532-6263

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

CERTIFICATIONS: NJDEP #13461, NYSDOH #11699



ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: IJO# 99-0094/UST

Bldg. 699/Saltzman Ave.

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
699A-North Wall 8.0-8.5' (E)	4764.01	Soil	01-Sept-99 09:15	09/01/99
699B-North Wall 8.0-8.5' (W)	4764.02	Soil	01-Sept-99 09:00	09/01/99
699C-West Wall 8.0-8.5' (N)	4764.03	Soil	01-Sept-99 09:35	09/01/99
699D-West Wall 8.0-8.5' (S)	4764.04	Soil	01-Sept-99 09:45	09/01/99
699E-South Wall 8.0-8.5' (W)	4764.05	Soil	01-Sept-99 11:20	09/01/99
699F-South Wall 8.0-8.5' (E)	4764.06	Soil	01-Sept-99 11:40	09/01/99
699G-East Wall 8.0-8.5' (S)	4764.07	Soil	01-Sept-99 12:00	09/01/99
699H-East Wall 8.0-8.5' (N)	4764.08	Soil	01-Sept-99 09:25	09/01/99
699I-Bottom 9.5-10.0'	4764.09	Soil	01-Sept-99 10:00	09/01/99
699D DUP.	4764.10	Soil	01-Sept-99 09:45	09/01/99
699 GW	4764.11	Aqueous	01-Sept-99 12:10	09/01/99
Trip Blank	4764.12	Methanol	01-Sept-99	09/01/99

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
VOA+15, LEAD, %SOLIDS

ENCLOSURE:
CHAIN OF CUSTODY
RESULTS

 9/16/99
Daniel Wright/Date
Laboratory Director

CHAIN OF CUSTODY

Fort Monmouth Environmental Testing Laboratory

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

Tel (732)532-4359 Fax (732)532-6263 EMail:appleby@mail1.monmouth.army.mil

NJDEP Certification #13461

Chain of Custody Record

Customer: Charles Appleby			Project No: 99-00080094		Analysis Parameters				Comments:		
Phone #: X26224			Location: BLDG. 699 SALTZMAN AVE.		TYPE Pb	% SOLIDS	VOA+10	VOA ID Number	PID Reading	* = Samples Kept <4 Celsius	
() DERA (X) OMA UST Assessment			UST#							Remarks / Preservation Method	
Samplers Name / Company : Frank Accorsi/TVS					Sample #						
Lab Sample I.D.	Sample Location	Date	Type	bottles							
47Ldt 01	699A- NORTH WALL 8.0-8.5 FT (C)	9-1-99	0915	SOIL	2	X	X	X	736	430	ICE
02	699B- NORTH WALL(W) 8.0-8.5 FT		0900			X	X	X	737	420	
03	699C- WEST WALL(W) 8.0-8.5 FT		0935			X	X	X	738	510	
04	699D- WEST WALL (C) 8.0-8.5 FT		0945			X	X	X	739	430	
05	699E- SOUTH WALL (W) 8.0-8.5 FT		1120			X	X	X	746	36	
06	699F- SOUTH WALL (E) 8.0-8.5 FT		1140			X	X	X	741	20	
07	699G- EAST WALL (C) 8.0-8.5 FT		1200			X	X	X	742	280	
08	699H- EAST WALL (W) 8.0-8.5 FT		0925			X	X	X	743	350	
09	699I- BOTTOM 9.5-100 FT		1000 0945 FH			X	X	X	740	20	
10	699D- DUPLICATE		0945	V	V	X	X	X	744	430	
11	699- 6W		1210	AQ	4	X	X	X	-	-	*
12	TRIP BLANK		-	V	1			X	745	-	
OVM sn#580U-64455.343 was calibrated with zero air & w/245 ppm Isobutylene read 245 ppm. 0900 9-1-99 FA (time/date & initial)											
Relinquished by (signature):		Date/Time:		Received by (signature):		Relinquished by (signature):		Date/Time:		Received by (signature):	
Frank Accorsi		9-1-99 1306		[Signature]							
Relinquished by (signature):		Date/Time:		Received by (signature):		Relinquished by (signature):		Date/Time:		Received by (signature):	
Report Type: () Full, () Reduced, (X) Standard, () Screen / non-certified					Remarks: * HOLD GW ANALYSIS UNTIL APPROVED BY C. APPLEBY All sample points have been GPS? (X) YES () NO () NA						
Turn in time: (X) Standard 4 wks, () Rush Days, () ASAP Verbal Hrs.					Dedicated Sampling Tools Used						

Method Summary

EPA Method 624 – Aqueous Gas Chromatographic Determination of Volatiles in Water

A 5 ml volume of sample is added to 5 ml aliquot of water. Surrogates and internal standards are added and the sample is placed on a purge and trap concentrator. The sample is purged and desorbed into a GC/MS system. Volatiles are then identified and quantitated.

EPA SW-846 Method 8260 Gas Chromatographic Determination of Volatiles in Soil

A 50ul volume of methanol soil sample is added to 5 ml aliquot of water. Surrogates and internal standards are added and the sample is placed on a purge and trap concentrator. The sample is purged and desorbed into a GC/MS system. Volatiles are identified and quantitated. The final concentration is calculated using soil weight, percent moisture, methanol volume and concentration.

VOLATILES

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

Data File **VC000746.D**
 Operator **Skelton**
 Date Acquired **3 Sep 1999 11:07 am**

Sample Name **Vblk25**
 Field ID **Vblk25**
 Sample Multiplier **1**

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

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

Vblk25

Lab Name: FMETL NJDEP # 13461
Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.:
Matrix: (soil/water) WATER Lab Sample ID: Vblk25
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC000746.D
Level: (low/med) LOW Date Received: 9/1/99
% Moisture: not dec. Date Analyzed: 9/3/99
GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

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

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

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

Data File **VC000761.D**
 Operator **Skelton**
 Date Acquired **3 Sep 1999 9:38 pm**

Sample Name **4764.11**
 Field ID **699-GW**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	11.81	38860025	234.41 ug/L	nle	0.16 ug/L	E
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene	18.66	58711716	205.21 ug/L	1	0.23 ug/L	E
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene	23.65	67761507	200.64 ug/L	1000	0.37 ug/L	E
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene	27.48	53941716	144.67 ug/L	700	0.65 ug/L	E
1330-20-7	m+p-Xylenes	27.64	59879447	388.63 ug/L	nle	1.14 ug/L	E
1330-20-7	o-Xylene	28.78	52526900	189.81 ug/L	nle	0.62 ug/L	E
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

699-GW

Lab Name: FMETL NJDEP # 13461

Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 4764.11

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VC000761.D

Level: (low/med) LOW Date Received: 9/1/99

% Moisture: not dec. _____ Date Analyzed: 9/3/99

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

Number TICs found: 10 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000100-61-8	Aniline, N-methyl-	27.70	1000	JN
2. 000103-65-1	Benzene, propyl-	30.62	180	JN
3.	unknown	30.86	710	J
4.	unknown	31.94	650	J
5.	unknown	33.04	320	J
6.	unknown	33.56	230	J
7.	unknown	33.78	250	J
8.	unknown	34.27	94	J
9.	unknown	34.45	150	J
10.	unknown	34.95	91	J

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

Data File **VC000762.D**
 Operator **Skelton**
 Date Acquired **3 Sep 1999 10:19 pm**

Sample Name **4764.11**
 Field ID **699-GW**
 Sample Multiplier **10**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	18.50 ug/L	
107131	Acrylonitrile			not detected	50	27.80 ug/L	
75650	tert-Butyl alcohol			not detected	nle	85.20 ug/L	
1634044	Methyl-tert-Butyl ether	11.83	4939746	303.83 ug/L	nle	1.60 ug/L	D
108203	Di-isopropyl ether			not detected	nle	2.50 ug/L	
	Dichlorodifluoromethane			not detected	nle	16.80 ug/L	
74-87-3	Chloromethane			not detected	30	11.60 ug/L	
75-01-4	Vinyl Chloride			not detected	5	10.60 ug/L	
74-83-9	Bromomethane			not detected	10	11.00 ug/L	
75-00-3	Chloroethane			not detected	nle	10.10 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	5.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	2.40 ug/L	
67-64-1	Acetone			not detected	700	13.60 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	4.60 ug/L	
75-09-2	Methylene Chloride			not detected	2	2.40 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	1.60 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	1.20 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	7.80 ug/L	
78-93-3	2-Butanone			not detected	300	6.20 ug/L	
	cis-1,2-Dichloroethene			not detected	10	1.70 ug/L	
67-66-3	Chloroform			not detected	6	3.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	2.30 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	4.70 ug/L	
71-43-2	Benzene	18.61	20712014	729.61 ug/L	1	2.30 ug/L	D
107-06-2	1,2-Dichloroethane			not detected	2	1.80 ug/L	
79-01-6	Trichloroethene			not detected	1	2.30 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	4.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	5.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	6.50 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	6.90 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	5.90 ug/L	
108-88-3	Toluene	23.66	46242230	1380.00 ug/L	1000	3.70 ug/L	E D
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	8.70 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	4.80 ug/L	
127-18-4	Tetrachloroethene			not detected	1	3.20 ug/L	
591-78-6	2-Hexanone			not detected	nle	7.10 ug/L	
126-48-1	Dibromochloromethane			not detected	10	8.60 ug/L	
108-90-7	Chlorobenzene			not detected	4	3.90 ug/L	
100-41-4	Ethylbenzene	27.47	32749913	886.90 ug/L	700	6.50 ug/L	D
1330-20-7	m+p-Xylenes	27.69	40715242	2668.27 ug/L	nle	11.40 ug/L	E D
1330-20-7	o-Xylene	28.76	34196045	1247.74 ug/L	nle	6.20 ug/L	E D
100-42-5	Styrene			not detected	100	5.60 ug/L	
75-25-2	Bromoform			not detected	4	7.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	4.70 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	5.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	5.70 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	6.40 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

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

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

Data File **VC000763.D**
 Operator **Skelton**
 Date Acquired **3 Sep 1999 11:00 pm**

Sample Name **4764.11**
 Field ID **699-GW**
 Sample Multiplier **50**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	92.50 ug/L	
107131	Acrylonitrile			not detected	50	139.00 ug/L	
75650	tert-Butyl alcohol			not detected	nle	426.00 ug/L	
1634044	Methyl-tert-Butyl ether	11.83	1055743	326.82 ug/L	nle	8.00 ug/L	D
108203	Di-isopropyl ether			not detected	nle	12.50 ug/L	
	Dichlorodifluoromethane			not detected	nle	84.00 ug/L	
74-87-3	Chloromethane			not detected	30	58.00 ug/L	
75-01-4	Vinyl Chloride			not detected	5	53.00 ug/L	
74-83-9	Bromomethane			not detected	10	55.00 ug/L	
75-00-3	Chloroethane			not detected	nle	50.50 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	25.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	12.00 ug/L	
67-64-1	Acetone			not detected	700	68.00 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	23.00 ug/L	
75-09-2	Methylene Chloride			not detected	2	12.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	8.00 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	6.00 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	39.00 ug/L	
78-93-3	2-Butanone			not detected	300	31.00 ug/L	
	cis-1,2-Dichloroethene			not detected	10	8.50 ug/L	
67-66-3	Chloroform			not detected	6	15.00 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	11.50 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	23.50 ug/L	
71-43-2	Benzene	18.61	4855433	868.51 ug/L	1	11.50 ug/L	D
107-06-2	1,2-Dichloroethane			not detected	2	9.00 ug/L	
79-01-6	Trichloroethene			not detected	1	11.50 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	20.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	27.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	32.50 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	34.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	29.50 ug/L	
108-88-3	Toluene	23.63	21884650	3316.33 ug/L	1000	18.50 ug/L	D
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	43.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	24.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	16.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	35.50 ug/L	
126-48-1	Dibromochloromethane			not detected	10	43.00 ug/L	
108-90-7	Chlorobenzene			not detected	4	19.50 ug/L	
100-41-4	Ethylbenzene	27.47	10656721	1453.59 ug/L	700	32.50 ug/L	D
1330-20-7	m+p-Xylenes	27.67	17891343	5905.68 ug/L	nle	57.00 ug/L	D
1330-20-7	o-Xylene	28.76	11767737	2162.69 ug/L	nle	31.00 ug/L	D
100-42-5	Styrene			not detected	100	28.00 ug/L	
75-25-2	Bromoform			not detected	4	35.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	23.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	27.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	28.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	32.00 ug/L	

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

Vblk25

Lab Name: FMETL NJDEP # 13461

Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: Vblk25

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VC000746.D

Level: (low/med) MED Date Received: 9/1/99

% Moisture: not dec. 0 Date Analyzed: 9/3/99

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein		1800	U
107131	Acrylonitrile		1800	U
75650	tert-Butyl alcohol		3200	U
1634044	Methyl-tert-Butyl ether		750	U
108203	Di-isopropyl ether		500	U
	Dichlorodifluoromethane		1000	U
74-87-3	Chloromethane		250	U
75-01-4	Vinyl Chloride		750	U
74-83-9	Bromomethane		500	U
75-00-3	Chloroethane		750	U
75-69-4	Trichlorofluoromethane		500	U
75-35-4	1,1-Dichloroethene		250	U
67-64-1	Acetone		500	U
75-15-0	Carbon Disulfide		250	U
75-09-2	Methylene Chloride		500	U
156-60-5	trans-1,2-Dichloroethene		500	U
75-35-3	1,1-Dichloroethane		250	U
108-05-4	Vinyl Acetate		750	U
78-93-3	2-Butanone		750	U
	cis-1,2-Dichloroethene		250	U
67-66-3	Chloroform		250	U
75-55-6	1,1,1-Trichloroethane		250	U
56-23-5	Carbon Tetrachloride		500	U
71-43-2	Benzene		250	U
107-06-2	1,2-Dichloroethane		500	U
79-01-6	Trichloroethene		250	U
78-87-5	1,2-Dichloropropane		250	U
75-27-4	Bromodichloromethane		250	U
110-75-8	2-Chloroethyl vinyl ether		500	U
10061-01-5	cis-1,3-Dichloropropene		250	U
108-10-1	4-Methyl-2-Pentanone		500	U
108-88-3	Toluene		250	U
10061-02-6	trans-1,3-Dichloropropene		500	U
79-00-5	1,1,2-Trichloroethane		500	U
127-18-4	Tetrachloroethene		250	U
591-78-6	2-Hexanone		500	U
126-48-1	Dibromochloromethane		500	U
108-90-7	Chlorobenzene		250	U
100-41-4	Ethylbenzene		500	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

Vblk25

Lab Name: FMETL NJDEP # 13461

Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: Vblk25

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VC000746.D

Level: (low/med) MED Date Received: 9/1/99

% Moisture: not dec. 0 Date Analyzed: 9/3/99

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
1330-20-7	m+p-Xylenes		750	U
1330-20-7	o-Xylene		500	U
100-42-5	Styrene		500	U
75-25-2	Bromoform		500	U
79-34-5	1,1,2,2-Tetrachloroethane		500	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

Vblk25

Lab Name: FMETL NJDEP # 13461
Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.:
Matrix: (soil/water) SOIL Lab Sample ID: Vblk25
Sample wt/vol: 10.0 (g/ml) G Lab File ID: VC000746.D
Level: (low/med) MED Date Received: 9/1/99
% Moisture: not dec. 0 Date Analyzed: 9/3/99
GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

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

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

Vblk128

Lab Name: FMETL NJDEP # 13461
 Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.:
 Matrix: (soil/water) SOIL Lab Sample ID: Vblk128
 Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004228.D
 Level: (low/med) MED Date Received: 9/1/99
 % Moisture: not dec. 0 Date Analyzed: 9/7/99
 GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein		1800	U
107131	Acrylonitrile		1800	U
75650	tert-Butyl alcohol		3200	U
1634044	Methyl-tert-Butyl ether		750	U
108203	Di-isopropyl ether		500	U
	Dichlorodifluoromethane		1000	U
74-87-3	Chloromethane		250	U
75-01-4	Vinyl Chloride		750	U
74-83-9	Bromomethane		500	U
75-00-3	Chloroethane		750	U
75-69-4	Trichlorofluoromethane		500	U
75-35-4	1,1-Dichloroethene		250	U
67-64-1	Acetone		500	U
75-15-0	Carbon Disulfide		250	U
75-09-2	Methylene Chloride		500	U
156-60-5	trans-1,2-Dichloroethene		500	U
75-35-3	1,1-Dichloroethane		250	U
108-05-4	Vinyl Acetate		750	U
78-93-3	2-Butanone		750	U
	cis-1,2-Dichloroethene		250	U
67-66-3	Chloroform		250	U
75-55-6	1,1,1-Trichloroethane		250	U
56-23-5	Carbon Tetrachloride		500	U
71-43-2	Benzene		250	U
107-06-2	1,2-Dichloroethane		500	U
79-01-6	Trichloroethene		250	U
78-87-5	1,2-Dichloropropane		250	U
75-27-4	Bromodichloromethane		250	U
110-75-8	2-Chloroethyl vinyl ether		500	U
10061-01-5	cis-1,3-Dichloropropene		250	U
108-10-1	4-Methyl-2-Pentanone		500	U
108-88-3	Toluene		250	U
10061-02-6	trans-1,3-Dichloropropene		500	U
79-00-5	1,1,2-Trichloroethane		500	U
127-18-4	Tetrachloroethene		250	U
591-78-6	2-Hexanone		500	U
126-48-1	Dibromochloromethane		500	U
108-90-7	Chlorobenzene		250	U
100-41-4	Ethylbenzene		500	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

Vblk128

Lab Name: FMETL NJDEP # 13461

Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: Vblk128

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004228.D

Level: (low/med) MED Date Received: 9/1/99

% Moisture: not dec. 0 Date Analyzed: 9/7/99

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	750	U
1330-20-7	o-Xylene	500	U
100-42-5	Styrene	500	U
75-25-2	Bromoform	500	U
79-34-5	1,1,2,2-Tetrachloroethane	500	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

Vblk128

Lab Name: FMETL NJDEP # 13461
Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____
Matrix: (soil/water) SOIL Lab Sample ID: Vblk128
Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004228.D
Level: (low/med) MED Date Received: 9/1/99
% Moisture: not dec. 0 Date Analyzed: 9/7/99
GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

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

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

Trip Blank

Lab Name: FMETL NJDEP # 13461

Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4764.12

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004237.D

Level: (low/med) MED Date Received: 9/1/99

% Moisture: not dec. 0 Date Analyzed: 9/7/99

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1330-20-7	m+p-Xylenes	750	U
1330-20-7	o-Xylene	500	U
100-42-5	Styrene	500	U
75-25-2	Bromoform	500	U
79-34-5	1,1,2,2-Tetrachloroethane	500	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

Trip Blank

Lab Name: FMETL NJDEP # 13461

Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 4764.12

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004237.D

Level: (low/med) MED Date Received: 9/1/99

% Moisture: not dec. 0 Date Analyzed: 9/7/99

GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
1330-20-7	m+p-Xylenes		750	U
1330-20-7	o-Xylene		500	U
100-42-5	Styrene		500	U
75-25-2	Bromoform		500	U
79-34-5	1,1,2,2-Tetrachloroethane		500	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

Trip Blank

Lab Name: FMETL NJDEP # 13461
Project: 990094 Case No.: 4764 Location: Bldg69 SDG No.:
Matrix: (soil/water) SOIL Lab Sample ID: 4764.12
Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB004237.D
Level: (low/med) MED Date Received: 9/1/99
% Moisture: not dec. 0 Date Analyzed: 9/7/99
GC Column: Rtx502.2 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 50 (uL)

CONCENTRATION UNITS:

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

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

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

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 4764.01-.11
Sample Received: 09/01/99
Analysis Start: 09/07/99
Analysis Completed: 09/14/99

Site: Bldg. 699
Saltzman Ave.

Matrix: Soil

Method of Analysis: E.P.A. SW-846, Method 7420, 7421
Method of Digestion: E.P.A. SW-846, Method 3051A

TEST PARAMETER: Lead(ppm)

Laboratory I.D. #	Sample Location	RESULT (mg/Kg)	MDL (mg/Kg)
4764.01	699A-North Wall 8.0-8.5 ft (E)	ND	13.13
4764.02	699B-North Wall 8.0-8.5 ft (W)	ND	12.25
4764.03	699C-West Wall 8.0-8.5 ft (N)	ND	13.86
4764.04	699D-West Wall 8.0-8.5 ft (S)	ND	13.59
4764.05	699E-South Wall 8.0-8.5 ft (W)	ND	13.24
4764.06	699F-South Wall 8.0-8.5 ft (E)	ND	13.31
4764.07	699G-East Wall 8.0-8.5 ft (S)	ND	10.28
4764.08	699H-East Wall 8.0-8.5 ft (N)	ND	13.24
4764.09	699I-Bottom 9.5-10.0 ft	ND	12.05
4764.10	699D-Duplicate	ND	12.55

Laboratory I.D. #	Sample Location	RESULT (mg/L)	MDL (mg/L)
4764.11	699-GW	0.0354	0.0008

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

 9/16/99
Daniel K. Wright
Laboratory Director