United States Army
Fort Monmouth, New Jersey

Underground Storage Tank Closure and Site Investigation Report

Building 2707
Charles Wood

NJDEP UST Registration No. 81515-47 thru 49

April 2001

UNDERGROUND STORAGE TANK
CLOSURE AND SITE INVESTIGATION REPORT

BUILDING 2707

CHARLES WOOD
NJDEP UST REGISTRATION NO. 81515-47 THRU 49

APRIL 2000

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

TABLE OF CONTENTS

EXECUTIVE SUMMARY	iv
1.0 UNDERGROUND STORAGE TANK DECOMMISSIONING ACTIVITIES	1
1.1 OVERVIEW	1
1.2 SITE DESCRIPTION	2
1.2.1 Geological/Hydrogeological Setting	2
1.3 HEALTH AND SAFETY	4
1.4 REMOVAL OF UNDERGROUND STORAGE TANK	4
1.4.1 General Procedures	4
1.4.2 Underground Storage Tank Excavation and Cleaning	4
1.5 UNDERGROUND STORAGE TANK TRANSPORTATION AND DISPOSAL	5
1.6 MANAGEMENT OF EXCAVATED SOILS	5
2.0 SITE INVESTIGATION ACTIVITIES	6
2.1 OVERVIEW	6
2.2 FIELD SCREENING/MONITORING	6
2.3 SOIL SAMPLING	6
3.0 CONCLUSIONS AND RECOMMENDATIONS	7
3.1 SOIL SAMPLING RESULTS	7
3.2 CONCLUSIONS AND RECOMMENDATIONS	7

TABLE OF CONTENTS (CONTINUED)

TABLES

Table 1 Summary of Post-Excavation Sampling Activities
Table 2 Post-Excavation Soil Sampling Results

FIGURES

Figure 1 Site Location Map
Figure 2 Site Map
Figure 3 Cross Sectional View
Figure 4 Soil Sampling Location Map

APPENDICES

Appendix A NJDEP UST Report Certification Form
Appendix B Waste Manifest
Appendix C UST Disposal Certificate
Appendix D Soil Analytical Data Package

EXECUTIVE SUMMARY

UST Closure

Between September 10, 1998, and September 15, 1998, three fiberglass underground storage tanks (USTs) were closed by removal in accordance with the New Jersey Department of Environmental Protection (NJDEP) underground storage tank procedures at the Charles Wood area of the U.S. Army Fort Monmouth, Fort Monmouth, New Jersey. The USTs, NJDEP Registration Nos. 81515-47 thru 49 (Fort Monmouth ID No. 2707), were located southwest of Building 2707. UST Nos. 81515-47 and 48 were both 4,000-gallon USTs while UST No. 81515-49 was a 10,000-gallon UST. All three USTs were never used.

Site Assessment

The site assessment was performed by U.S. Army personnel in accordance with the NJDEP *Technical Requirements for Site Remediation* (N.J.A.C. 7:26E) and the NJDEP *Field Sampling Procedures Manual*. Soils surrounding the tank were screened visually and with air monitoring equipment for evidence of contamination. No holes or punctures were noted in the UST and no evidence of potentially contaminated soils was observed surrounding the tank. No soil samples were collected since the USTs were never used. Groundwater was not encountered.

Site Restoration

Following the removal of the USTs, the excavation was backfilled to grade with crushed stone, sand, and native backfill and restored to its original condition.

Conclusions and Recommendations

No further action is proposed in regard to the closure and site assessment of UST Nos. 81515-47 thru 49 at Building 2707.

1.0 UNDERGROUND STORAGE TANK DECOMMISSIONING ACTIVITIES

1.1 OVERVIEW

Three underground storage tanks (USTs), New Jersey Department of Environmental Protection (NJDEP) Registration Nos. 81515-47 thru 49, were closed at Building 2707 at the Charles Wood area of U.S. Army Fort Monmouth, Fort Monmouth, New Jersey, between September 10, 1998, and September 15, 1998. Refer to site location map on Figure 1. This report presents the results of the Department of Public Works (DPW) implementation of the UST Decommissioning/Closure Plan approved by the NJDEP.

Decommissioning activities for UST Nos. 81515-47 thru 49 complied with all applicable Federal, State and Local laws and ordinances in effect at the date of decommissioning. These laws included but were not limited to N.J.A.C. 7:14B-1 et seq., N.J.A.C. 5:23-1 et seq., and Occupational Safety and Health Administration (OSHA) 1910.146 & 1910.120. All permits including but not limited to the NJDEP-approved Decommissioning/Closure Plan were posted onsite for inspection. The decommissioning activities were conducted by DPW personnel who are registered and certified by the NJDEP for performing UST closure activities. Closure of UST Nos. 81515-47 thru 49 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. 81515-47 thru 49 are included in Appendices A and B, respectively.

Based on inspecting the UST, field screening of subsurface soils, the DPW has concluded that no significant historical discharges are associated with the UST or associated piping.

This UST Closure and Site Investigation Report has been prepared by Versar, to assist the United States Army Directorate of Public Works (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 are presented in the final section of this report.

1.2 SITE DESCRIPTION

Building 2707 is located in the Charles Wood area of the Fort Monmouth Army Base. UST Nos. 81515-47 thru 49 were located southwest of Building 2707. A site map is provided on Figure 2.

1.2.1 Geological/Hydrogeological Setting

The following is a description of the geological/hydrogeological setting of the area surrounding Building 2707. 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 Charles Wood area.

Regional Geology

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

In general, New Jersey Coastal Plain formations consist of a seaward-dipping wedge of unconsolidated deposits of clay, silt, and gravel. These formations typically strike northeast-southwest with a dip ranging from 10 to 60 feet per mile and were deposited on Precambrian and lower Paleozoic rocks (Zapecza, 1989). These sediments, predominantly derived from deltaic, shallow marine, and continental shelf environments, date from Cretaceous through the Quaternary Periods. The mineralogy ranges from quartz to glauconite.

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

Local Geology

Based on the regional geologic map (Jablonski, 1968), the Cretaceous age Red Bank and Tinton Sands outcrop at the Charles Wood area. The Red Bank sand conformably overlies the Navesink Formation and dips to the southeast at 35 feet per mile. The upper member (Shrewsbury) of the Red Bank sand is a yellowish-gray to reddish brown clayey, medium-to-coarse-grained sand that contains abundant rock fragments, minor mica and glauconite (Jablonski). The lower member (Sandy Hook) is a dark gray to black, medium-to-fine grained sand with abundant clay, mica, and glauconite.

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

Over the last 80 years, the natural topography of Fort Monmouth has been altered by excavation and filling activities by the military. Topographic elevations for the Charles Wood area range from 20 feet above mean seal level (MSL) to 71 feet above MSL.

Hydrogeology

The water table aquifer in the Charles Wood 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.

Six well records for monitor wells installed at locations within the Charles Wood area in February 1981 were used for reference. The wells were completed to total depths ranging from 20 to 25 feet below ground surface (bgs). Water was encountered at depths ranging from 5 to 12 feet bgs.

The lithologic descriptions for these borings described deposits that were primarily fine to coarse, glauconitic sands, with traces of gravel, silt, and clay. These sediments are part of the Hornerstown Marl, from the Tertiary Period (Paleocene Series, approximately 58 to 66 Ma). According to Jablonski, wells drilled in the Red Bank and Tinton Sands may produce from 2 to 25 gallons per minute (gpm). Some well owners have reported acidic water that requires treatment to remove iron.

Shallow groundwater is locally influenced within the Charles Wood 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 Charles Wood 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. Building 2707 is located approximately 400 feet south of an unnamed stream that runs from east to west through the Charles Wood area. Based on the Charles Wood area topography, the groundwater flow in the area of Building 2707 is anticipated to be to the north.

1.3 HEALTH AND SAFETY

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

1.4 REMOVAL OF UNDERGROUND STORAGE TANK

1.4.1 General Procedures

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

1.4.2 Underground Storage Tank Excavation and Cleaning

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 made in the UST to allow for proper cleaning. The UST was completely emptied of all liquids prior to removal from the ground. Approximately 25 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 B 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. No holes or punctures were observed during the inspection by the Sub-Surface Evaluator. Soils surrounding the UST were screened visually and with an OVA for evidence of contamination. No evidence of contamination was observed. Soil screening was also performed along the piping run associated with the UST closure. Contamination was noted along the piping length and appeared to be from a former above ground tank. Approximately 5 cubic yards of potentially contaminated soil were removed from the excavated area and stored at the Fort Monmouth petroleum contaminated soil staging area. Soil samples, which were collected after the removal of the potentially contaminated soil, contained TPHC concentrations ranging from non-detect to 357.42 mg/kg. Groundwater was not encountered.

1.5 UNDERGROUND STORAGE TANK TRANSPORTATION AND DISPOSAL

The tank was transported to Mazza and Sons, Inc., Metal Recyclers. See Appendix C for a copy of the UST disposal certificate and Appendix F for photographs of the UST. The transportation of the UST was in compliance with all applicable regulations and laws.

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

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

1.6 MANAGEMENT OF EXCAVATED SOILS

Based on OVA air monitoring and TPHC analysis results from the post-excavation soil samples, approximately 5 cubic yards of potentially contaminated soil were removed from the UST excavation.

2.0 SITE INVESTIGATION ACTIVITIES

2.1 OVERVIEW

The Site Investigation was managed and carried out by U.S. Army DPW personnel. All records of the Site Investigation activities are maintained by the Fort Monmouth DPW Environmental Office.

The following Parties participated in Closure and Site Investigation Activities:

- Subsurface Evaluator: Charles Appleby
  Employer: U.S. Army, Fort Monmouth
  Phone Number: (732) 532-0989
  NJDEP Certification No.: 2056

2.2 FIELD SCREENING/MONITORING

Field screening was performed by a NJDEP Certified Sub-Surface Evaluator using an OVA and visual observations to identify potentially contaminated material. Soil excavated from around the tank, as well as the UST excavation sidewalls and bottom, did not exhibit any evidence of potential contamination. Groundwater was not encountered.

2.3 SOIL SAMPLING

No soil samples were collected from the site since all three USTs were never used.

3.0 CONCLUSIONS AND RECOMMENDATIONS

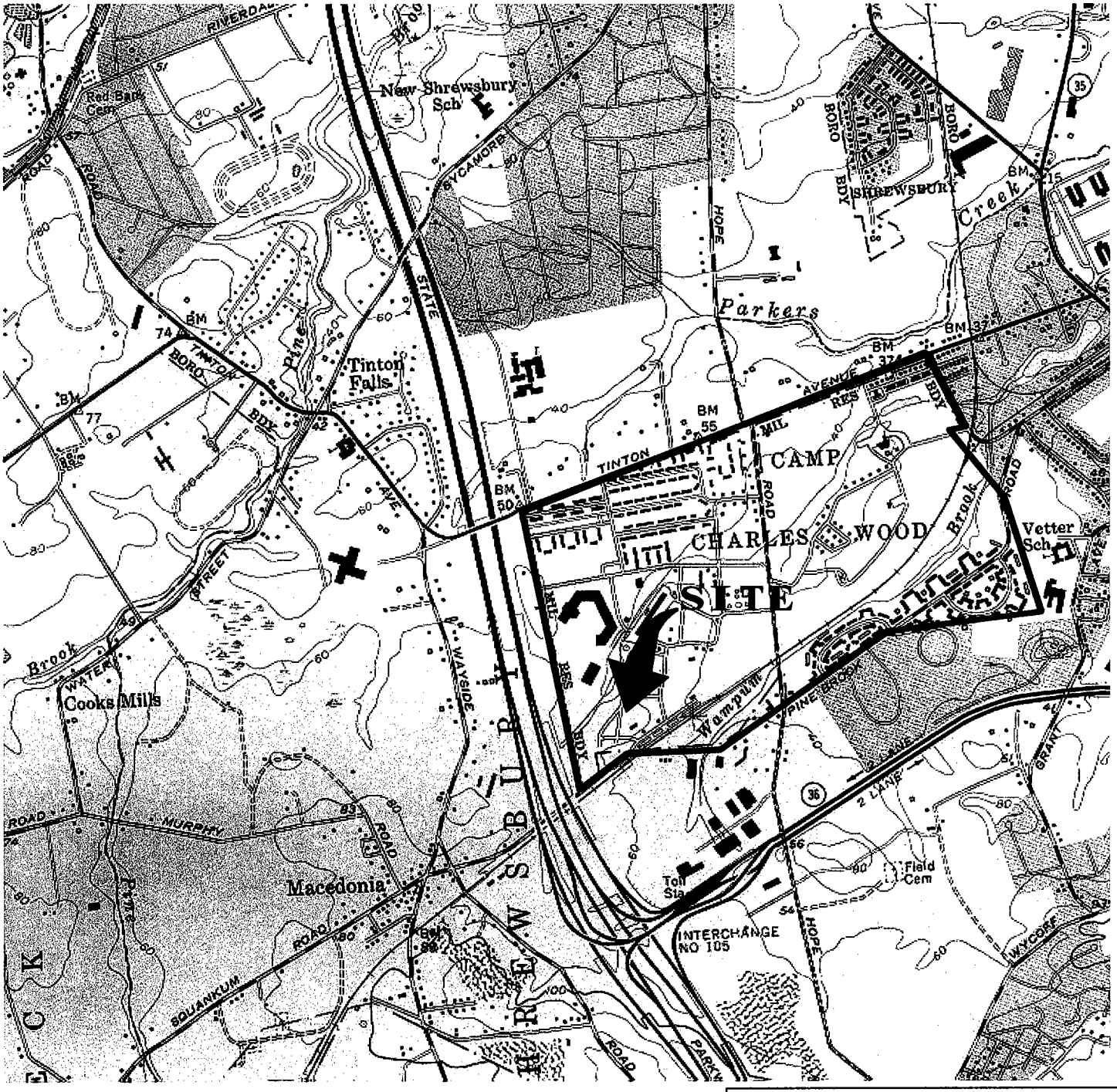
3.1 SOIL SAMPLING RESULTS

No soil samples were collected from the site since all three USTs were never used.

3.2 CONCLUSIONS AND RECOMMENDATIONS

No further action is proposed in regard to the closure and site assessment of UST Nos. 81515-47 thru 49 at Building 2707.

FIGURES



LONG BRANCH, N. J.

40073-C8-TF-024

1954

PHOTOREVISED 1981

DMA 6164 I SE-SERIES V822

Mapped, edited and published by the Geological Survey

FIGURE 1

LOCATION MAP
Building 2707
Charles Wood
Fort Monmouth Army Base
Monmouth County, NJ

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

Scale: 1" = 2000'

Date: September 1998

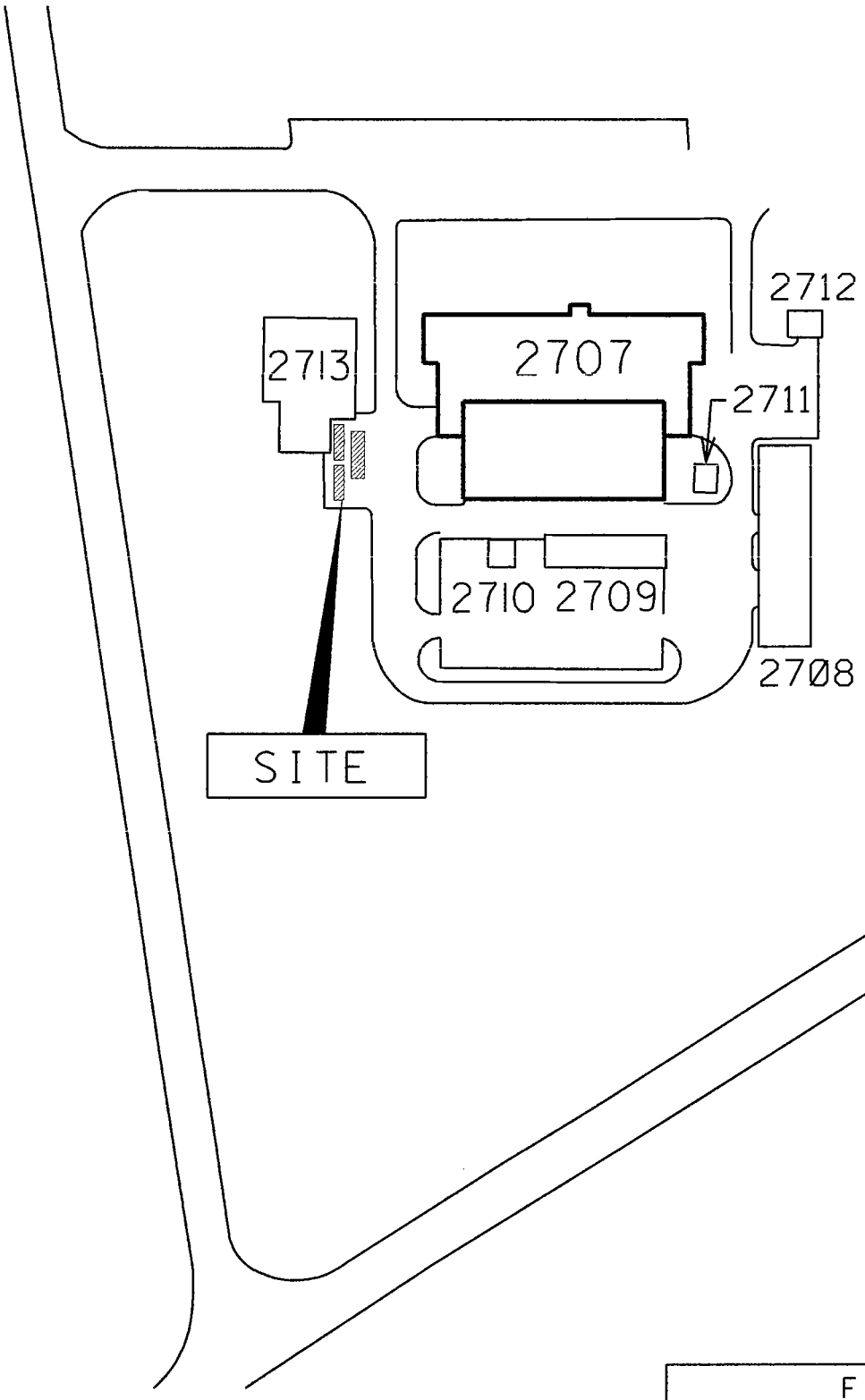


FIGURE 2
SITE MAP
BUILDING 2707
FORT MONMOUTH ARMY BASE
MONMOUTH COUNTY, NJ

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

SCALE: 1"=100'

DATE:SEPTEMBER 1998

2707 FIG2

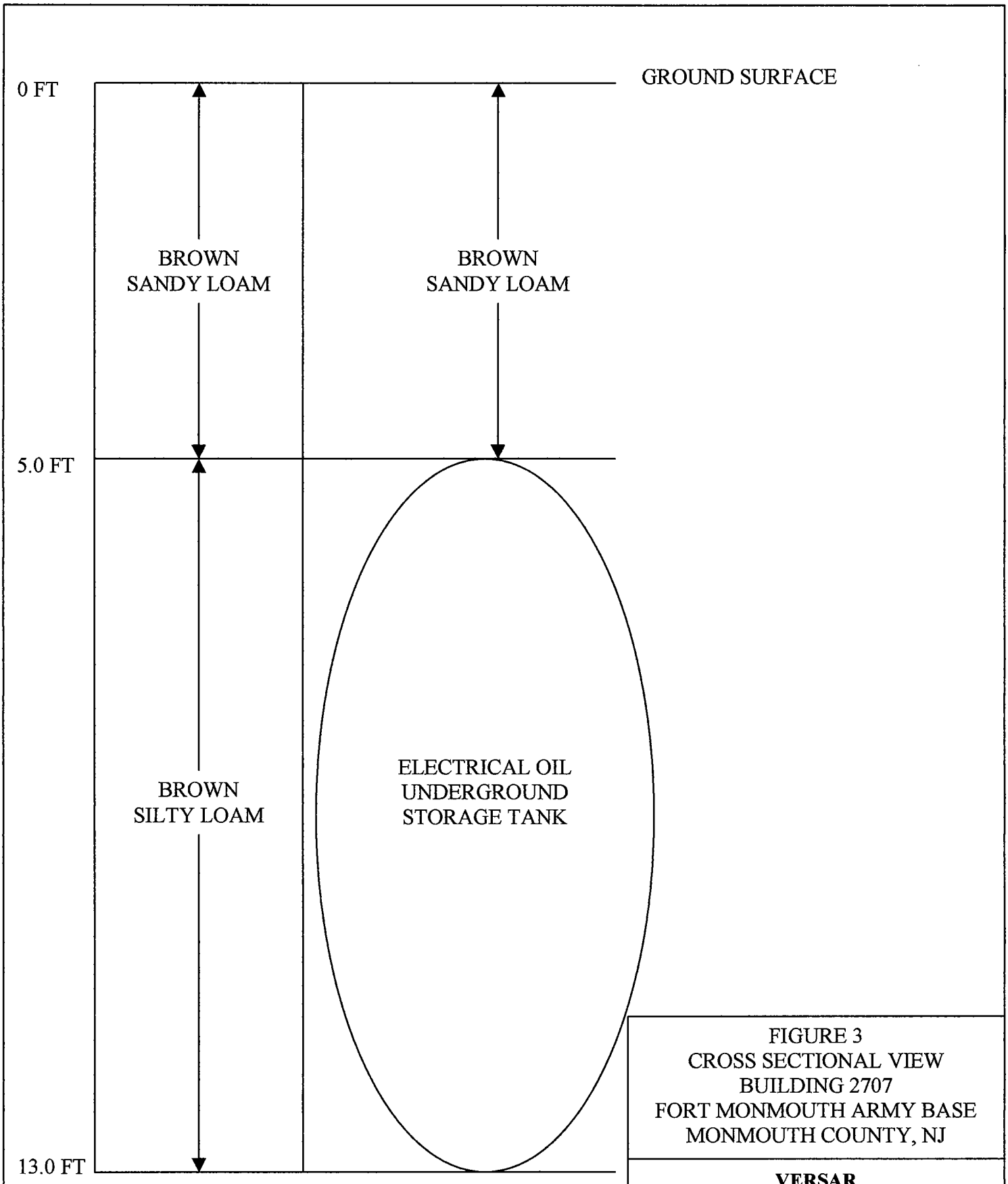


FIGURE 3
CROSS SECTIONAL VIEW
BUILDING 2707
FORT MONMOUTH ARMY BASE
MONMOUTH COUNTY, NJ

VERSAR
Engineers, Managers, Scientists & Planners
Bristol, Pennsylvania

SCALE: NTS | DATE: September 1998

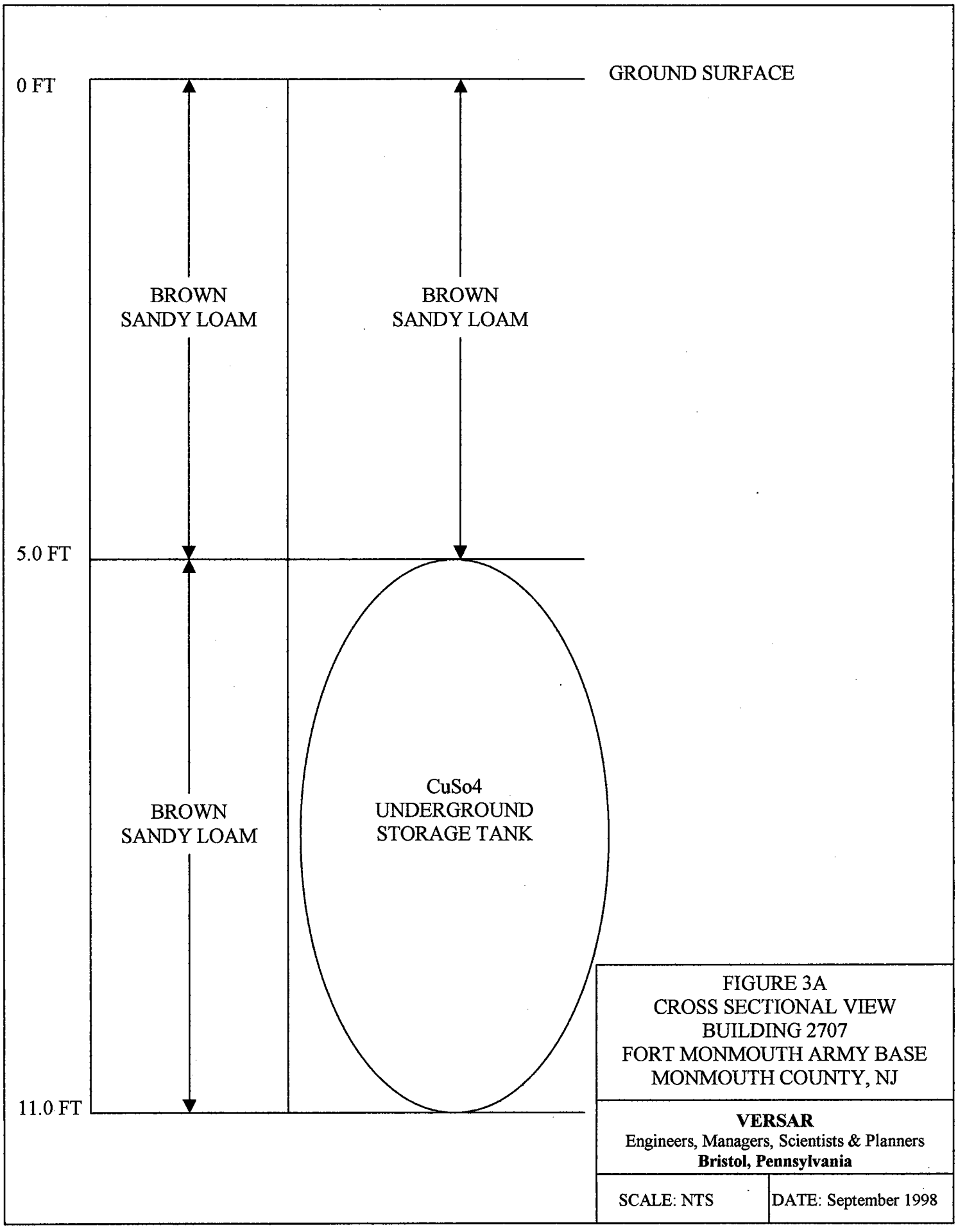


FIGURE 3A
CROSS SECTIONAL VIEW
BUILDING 2707
FORT MONMOUTH ARMY BASE
MONMOUTH COUNTY, NJ

VERSAR
Engineers, Managers, Scientists & Planners
Bristol, Pennsylvania

SCALE: NTS	DATE: September 1998

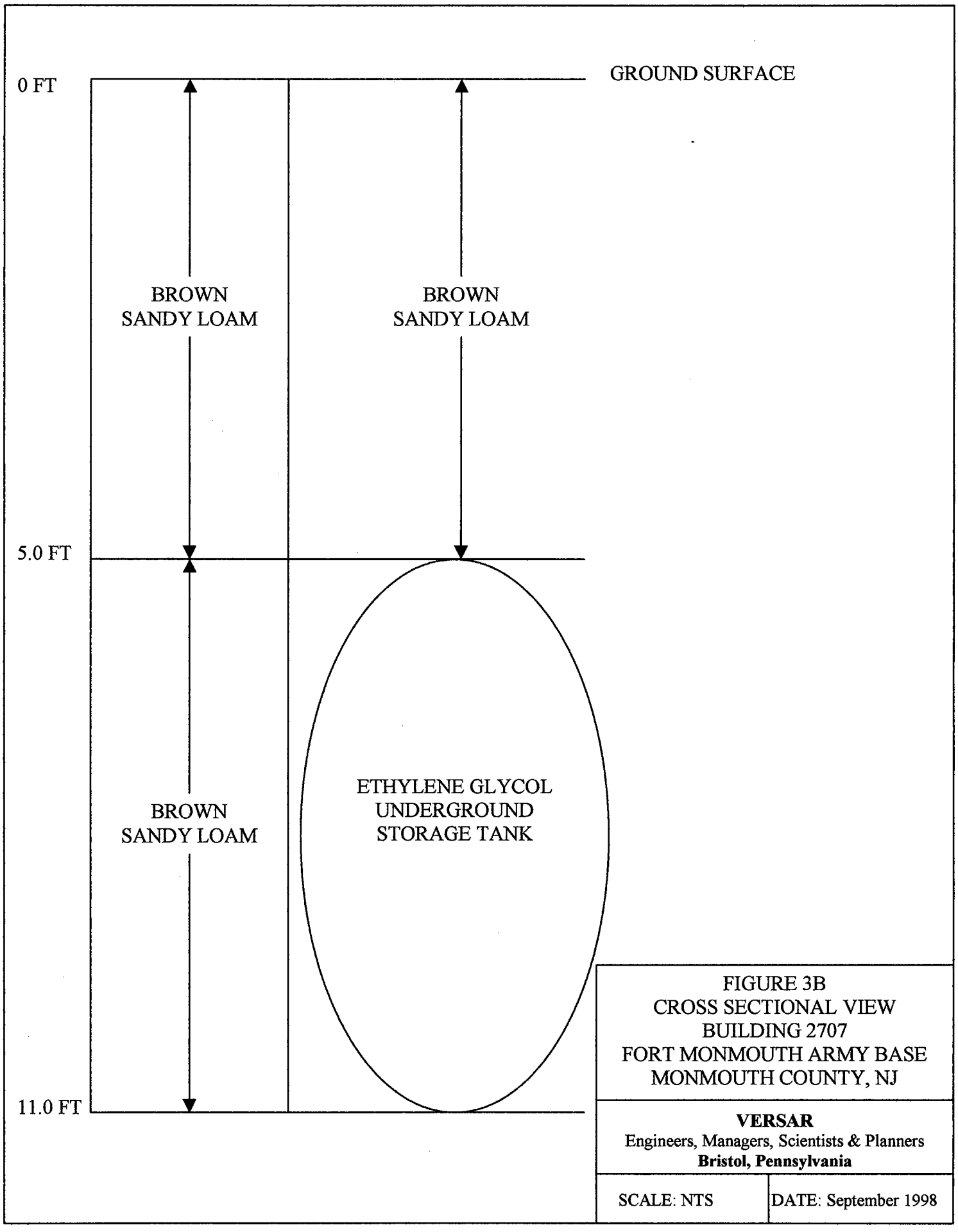


FIGURE 3B
CROSS SECTIONAL VIEW
BUILDING 2707
FORT MONMOUTH ARMY BASE
MONMOUTH COUNTY, NJ

VERSAR
Engineers, Managers, Scientists & Planners
Bristol, Pennsylvania

SCALE: NTS | DATE: September 1998

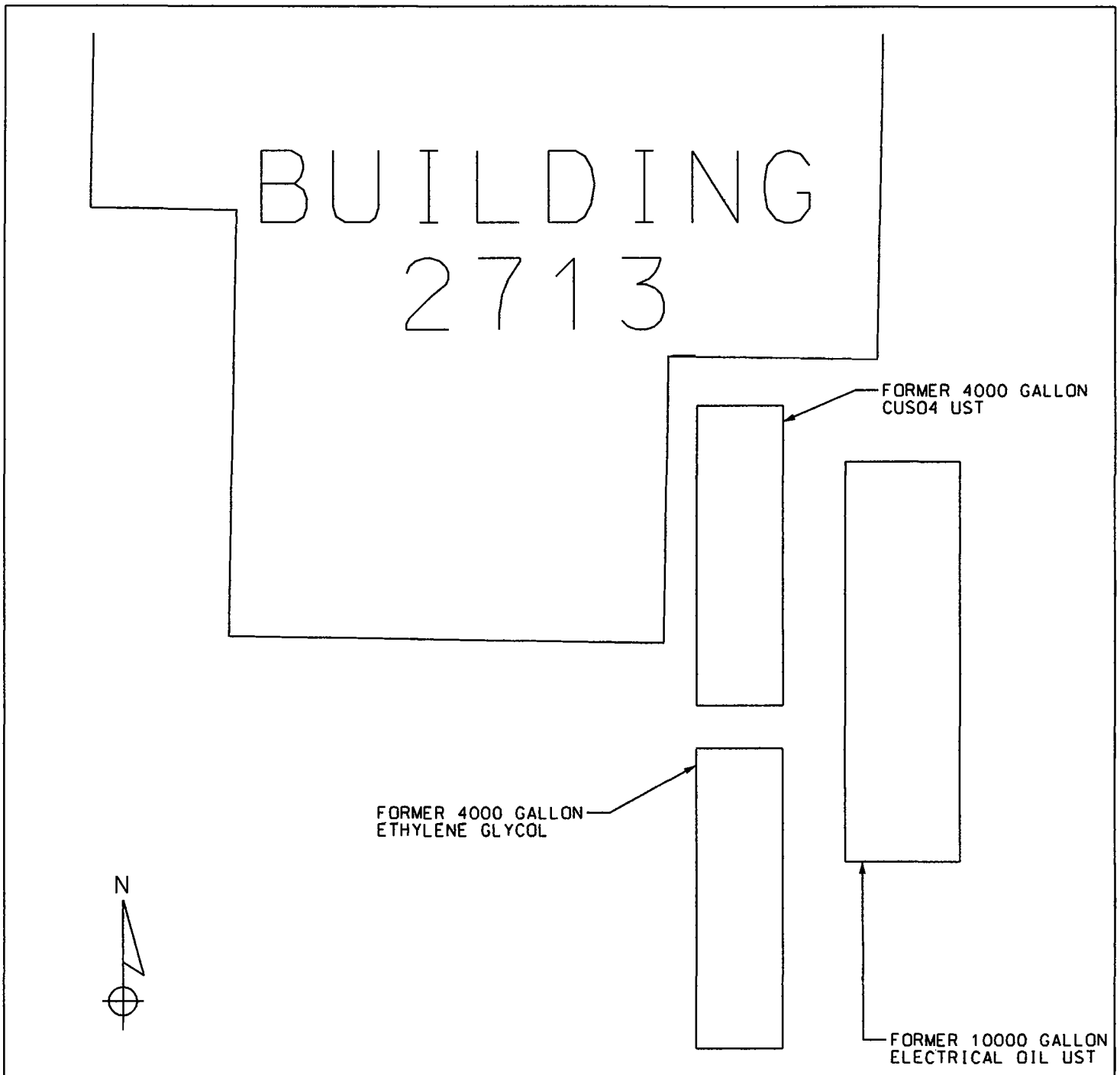


FIGURE 4
UST LOCATION MAP
BUILDING 2707
FORT MONMOUTH ARMY BASE
MONMOUTH COUNTY, NJ

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

SCALE: 1"=10'

DATE:SEPTEMBER 1998

2707 FIG4

APPENDIX A

NJDEP UST Report Certification Form

(12/97)

New Jersey Department of Environmental Protection

Site Remediation Program

UST Site/Remedial Investigation Report Certification Form

A. Facility Name : U.S. Army Fort Monmouth New Jersey

Facility Street Address : Directorate of Public Works Building 173

Municipality: Oceanport County : Monmouth

Block: 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

_X_ NA – Federal Agreement

D. (Complete all that apply)

- Assigned Case Manager : Ian Curtis, Federal Case Manager
- UST Registration Number : 81515-47 (7 digits)
- Incident Report Number ___–___–___–_____–___ (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. 7:26E .....Yes No

Name: Charles Appleby Signature: See signed subsurface removal log UST Cert. No.: 2056

Firm: U.S. Army Fort Monmouth Firm's UST Cert. Number: NA-U.S. Army

Firm Address: Directorate of Public Works Building 173 City: Fort Monmouth

State: 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:

US ARMY, SELFM-PW-EV
DAILY UST SUBSURFACE REMOVAL LOG

BLDG.#: 2707 REG.#: 81515 - 47 CLOSURE#: ~~BRAC Auth.~~ TUS
DATE: ~~9/14/98~~ 9/15/98 TOA: 830 TOD: 10:10
GOV. SSE: C. Appleby NJDEP CERT.#: 2056
REMOVAL CONTRACTOR: SMC Inc.
CLOSURE SUPERVISOR: _____ NJDEP CERT.#: _____
WEATHER: Sunny + Warm
10K electrical ovc.

ACTIVITY	YES / NO
THE SUPERVISOR (CLOSURE CERT.) WAS ON-SITE DURING ALL CLOSURE RELATED ACTIVITIES	yes
THE SSE WAS ON-SITE DURING UST REMOVAL AND SITE SCREENING AND SAMPLING ACTIVITIES	yes
ALL ON-SITE PERSONNEL HAD TRAINING IAW ALL SAFETY REQUIREMENTS (E.G. 29CFR)	yes
A CONFINED ENTRY PERMIT WAS COMPLETED AND POSTED ON-SITE BY THE CONTRACTOR	NA
THE UST WAS PLACED ~~ONTO PLASTIC~~, SCRAPED OFF, INSPECTED FOR HOLES AND PHOTOGRAPHED	yes
A DISCHARGE WAS REPORTED TO THE NJDEP (609-292-7172), CASE# NA	
PHOTOS HAVE UST#, BLDG. #, DATE, TIME, NAME OF SSE AND DESCR. WRITTEN ON BACK	TUS yes
GROUNDWATER WAS ENCOUNTERED AT ____ FEET BG, A SHEEN (WAS/WAS NOT) OBSERVED ON GW	NA
IF OVA/Hnu WAS USED: WAS IT CAL. AND FOUND TO BE OPERATIONAL (cal. data on COC)	NA
IF SAMPLES WERE TAKEN: COC, SCALED SITE MAP (VERT. SOIL HORIZONS AND PLOT PLAN)	NA
ALL SAMPLE COLLECTION ACTIVITIES WERE AS DESCRIBED IN THE NJDEP FSPM, 1992	yes NA
ALL SAMPLING WAS BIASED TOWARD HIGHEST OVA/FID RECORDED SITES IAW 7:26E-3.6 et seq.	NA
ALL PETROL. CONT. SOILS WERE SECURED FROM THE WEATHER BY CLOSE OF BUSINESS TODAY	NA
THE SSE AUTHORIZED BACKFILLING THE EXCAVATION (STONE TO 1" ABOVE GROUNDWATER)	NO
ADDITIONAL NOTES WERE TAKEN AND ARE RECORDED ON THE BACK OF THIS FORM	Both
THE FOLLOWING DOCUMENTS WERE ADDED TO THE PROJECT FOLDER TODAY: (CIRCLE EACH) SCRAP TICKET, CSE PERMIT, ACCIDENT REPORT, HAZ. WASTE MANIFEST, DAILY UST CLOSURE LOG, SCALED SITE MAP (SAMPLING), SRF-CLOSURE, CHAIN OF CUSTODY, SOIL ANALYTICAL RESULTS, CLEAN FILL TICKETS(IN YDS^3), PHOTOGRAPHS (UST, EXCAVATION, SAMPLING POINTS)	

CHECK ALL BOXES, LEAVE NO BLANKS

I certify under penalty of law that tank decommissioning activities were performed in compliance with N.J.A.C. 7:14B-9.2(b)3 and 7:26 et seq.. I am aware that there are significant penalties for submitting false, inaccurate, or incomplete information, including fines and/or imprisonment.

SIGNATURE: _____ DATE: 9/15/98

ca\ms\ust\removal\sitessls.doc

UST Removed w/ Clean - Process tank has to be Removed so Excavation left open

SRF Sent 9/18/98

(12/97) **New Jersey Department of Environmental Protection**

Site Remediation Program

UST Site/Remedial Investigation Report Certification Form

A. Facility Name : U.S. Army Fort Monmouth New Jersey

Facility Street Address : Directorate of Public Works Building 173

Municipality: Oceanport County : Monmouth

Block: 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

_X_ NA – Federal Agreement

D. (Complete all that apply)

- Assigned Case Manager : Ian Curtis, Federal Case Manager
- UST Registration Number : 81515-49 (7 digits)
- Incident Report Number ___–___–___–_____–___ (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. 7:26E .....Yes No

Name: Charles Appleby Signature: See signed subsurface removal log UST Cert. No.: 2056

Firm: U.S. Army Fort Monmouth Firm's UST Cert. Number: NA-U.S. Army

Firm Address: Directorate of Public Works Building 173 City: Fort Monmouth

State: 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.)

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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:

US ARMY, SELFM-PW-EV
DAILY UST SUBSURFACE REMOVAL LOG

BLDG.#: 2707 REG.#: 81515 - 49 CLOSURE#: ~~BRAC Auth.~~ TVS
DATE: 9/14/98 TOA: _____ TOD: _____
GOV. SSE: Charles Appleby NJDEP CERT.#: 2056
REMOVAL CONTRACTOR: SMC Inc.
CLOSURE SUPERVISOR: Gary DeMatteis NJDEP CERT.#: _____
WEATHER: Sunny 70's warm
4K FRP Ethylene Glycol Solution

ACTIVITY	YES / NO
THE SUPERVISOR (CLOSURE CERT.) WAS ON-SITE DURING ALL CLOSURE RELATED ACTIVITIES	Y=S
THE SSE WAS ON-SITE DURING UST REMOVAL AND SITE SCREENING AND SAMPLING ACTIVITIES	Y=S
ALL ON-SITE PERSONNEL HAD TRAINING IAW ALL SAFETY REQUIREMENTS (E.G. 29CFR)	Y=S
A CONFINED ENTRY PERMIT WAS COMPLETED AND POSTED ON-SITE BY THE CONTRACTOR Closed Perm.	NA
THE UST WAS PLACED ONTO PLASTIC, SCRAPED OFF, INSPECTED FOR HOLES AND PHOTOGRAPHED TVS	Y=S
A DISCHARGE WAS REPORTED TO THE NJDEP (609-292-7172), CASE# _____	NA
PHOTOS HAVE UST#, BLDG. #, DATE, TIME, NAME OF SSE AND DESCR. WRITTEN ON BACK	TVS
GROUNDWATER WAS ENCOUNTERED AT ____ FEET BG, A SHEEN (WAS/WAS NOT) OBSERVED ON GW	NA
IF OVA/Hnu WAS USED: WAS IT CAL. AND FOUND TO BE OPERATIONAL (cal. data on COC)	NA
IF SAMPLES WERE TAKEN: COC, SCALED SITE MAP (VERT. SOIL HORIZONS AND PLOT PLAN)	NA
ALL SAMPLE COLLECTION ACTIVITIES WERE AS DESCRIBED IN THE NJDEP FSPM, 1992	NA
ALL SAMPLING WAS BIASED TOWARD HIGHEST OVA/FID RECORDED SITES IAW 7:26E-3.6 et seq.	NA
ALL PETROL. CONT. SOILS WERE SECURED FROM THE WEATHER BY CLOSE OF BUSINESS TODAY	NA
THE SSE AUTHORIZED BACKFILLING THE EXCAVATION (STONE TO 1" ABOVE GROUNDWATER)	NA
ADDITIONAL NOTES WERE TAKEN AND ARE RECORDED ON THE BACK OF THIS FORM	Both.
THE FOLLOWING DOCUMENTS WERE ADDED TO THE PROJECT FOLDER TODAY: (CIRCLE EACH) SCRAP TICKET, CSE PERMIT, ACCIDENT REPORT, HAZ. WASTE MANIFEST, DAILY UST CLOSURE LOG, SCALED SITE MAP (SAMPLING), SRF-CLOSURE, CHAIN OF CUSTODY, SOIL ANALYTICAL RESULTS, CLEAN FILL TICKETS(IN YDS^3), PHOTOGRAPHS (UST, EXCAVATION, SAMPLING POINTS)	

CHECK ALL BOXES, LEAVE NO BLANKS

I certify under penalty of law that tank decommissioning activities were performed in compliance with N.J.A.C. 7:14B-9.2(b)3 and 7:26 et seq.. I am aware that there are significant penalties for submitting false, inaccurate, or incomplete information, including fines and/or imprisonment.

SIGNATURE: _____ DATE: 9/14/98

ca\ms\ust\removal\sitessls.doc

- UST Removed w/ Crane. No Leaks detected.

SRF Sent 9/19/98 CJ

(12/97) **New Jersey Department of Environmental Protection**

Site Remediation Program

UST Site/Remedial Investigation Report Certification Form

A. Facility Name : U.S. Army Fort Monmouth New Jersey

Facility Street Address : Directorate of Public Works Building 173

Municipality: Oceanport County : Monmouth

Block: 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

_X_ NA – Federal Agreement

D. (Complete all that apply)

- Assigned Case Manager : Ian Curtis, Federal Case Manager
- UST Registration Number : 81515-48 (7 digits)
- Incident Report Number ___–___–___–_____–___ (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. 7:26E .....Yes No

Name: Charles Appleby Signature: See signed subsurface removal log UST Cert. No.: 2056

Firm: U.S. Army Fort Monmouth Firm's UST Cert. Number: NA-U.S. Army

Firm Address: Directorate of Public Works Building 173 City: Fort Monmouth

State: 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:

US ARMY, SELFM-PW-EV
DAILY UST SUBSURFACE REMOVAL LOG

BLDG.#: 2707 REG.#: 81515 - 48 CLOSURE#: ~~BRAC Auth.~~ TUS
DATE: 9/10/98 TOA: _____ TOD: _____
GOV. SSE: C. Addy NJDEP CERT.#: 2056
REMOVAL CONTRACTOR: SMC Inc.
CLOSURE SUPERVISOR: Gary Denoch NJDEP CERT.#: _____
WEATHER: Sunny Hot
~~8K~~ 4K FRP Cusop Tankfield Vault

ACTIVITY	YES / NO
THE SUPERVISOR (CLOSURE CERT.) WAS ON-SITE DURING ALL CLOSURE RELATED ACTIVITIES	Y=S
THE SSE WAS ON-SITE DURING UST REMOVAL AND SITE SCREENING AND SAMPLING ACTIVITIES	Y=S
ALL ON-SITE PERSONNEL HAD TRAINING IAW ALL SAFETY REQUIREMENTS (E.G. 29CFR)	Y=S
A CONFINED ENTRY PERMIT WAS COMPLETED AND POSTED ON-SITE BY THE CONTRACTOR	NA
THE UST WAS PLACED ONTO PLASTIC, SCRAPED OFF, INSPECTED FOR HOLES AND PHOTOGRAPHED	TUS
A DISCHARGE WAS REPORTED TO THE NJDEP (609-292-7172), CASE# _____	NA
PHOTOS HAVE UST#, BLDG. #, DATE, TIME, NAME OF SSE AND DESCR. WRITTEN ON BACK	TUS
GROUNDWATER WAS ENCOUNTERED AT ____ FEET BG, A SHEEN (WAS/WAS NOT) OBSERVED ON GW	NA
IF OVA/Hnu WAS USED: WAS IT CAL. AND FOUND TO BE OPERATIONAL (cal. data on COC)	NA
IF SAMPLES WERE TAKEN: COC, SCALED SITE MAP (VERT. SOIL HORIZONS AND PLOT PLAN)	NA
ALL SAMPLE COLLECTION ACTIVITIES WERE AS DESCRIBED IN THE NJDEP FSPM, 1992	NA
ALL SAMPLING WAS BIASED TOWARD HIGHEST OVA/FID RECORDED SITES IAW 7:26E-3.6 et seq.	NA
ALL PETROL. CONT. SOILS WERE SECURED FROM THE WEATHER BY CLOSE OF BUSINESS TODAY	NA
THE SSE AUTHORIZED BACKFILLING THE EXCAVATION (STONE TO 1" ABOVE GROUNDWATER)	NO
ADDITIONAL NOTES WERE TAKEN AND ARE RECORDED ON THE BACK OF THIS FORM	Both
THE FOLLOWING DOCUMENTS WERE ADDED TO THE PROJECT FOLDER TODAY: (CIRCLE EACH) SCRAP TICKET, CSE PERMIT, ACCIDENT REPORT, HAZ. WASTE MANIFEST, DAILY UST CLOSURE LOG, SCALED SITE MAP (SAMPLING), SRF-CLOSURE, CHAIN OF CUSTODY, SOIL ANALYTICAL RESULTS, CLEAN FILL TICKETS(IN YDS^3), PHOTOGRAPHS (UST, EXCAVATION, SAMPLING POINTS)	

CHECK ALL BOXES, LEAVE NO BLANKS

I certify under penalty of law that tank decommissioning activities were performed in compliance with N.J.A.C. 7:14B-9.2(b)3 and 7:26 et seq.. I am aware that there are significant penalties for submitting false, inaccurate, or incomplete information, including fines and/or imprisonment.

SIGNATURE: _____ DATE: 9/10/98

ca\ms\ust\removal\sitessls.doc

UST Removed w/ difficulty due to weight and limited Capacity of Excavator. Removed and Placed in Parking Lot Awaiting disposal (Cut and placed in Dumpster)
All product / Vent Pipe is ~~Double~~ double walled.
Interstitial Probe Sensor found in UST.

SRF Sent 9/14/98 DS

APPENDIX B

Waste Manifest

Waste Manifest

Not Available

APPENDIX C

UST Disposal Certificate

DEPARTMENT OF THE ARMY
Headquarters, U.S. Army Garrison Fort Monmouth
Fort Monmouth, New Jersey 07703 - 5101

2500 AREA

REPLY TO
ATTENTION OF

Directorate of Public Works

Date: October 6, 1998

Marpal Disposal Company, Inc.
P.O. Box 188
Lincroft, New Jersey 07738

Re: Non-Hazardous waste disposal
Dumpster number: # 2065ADK
Contract number: DAAB07-96-C-8252
Size: 20 cubic yards

Dear Sirs:

I certify that the above referenced dumpster provided by Marpal Disposal Company, Inc. contains only fiberglass underground storage tanks that previously stored No. 2 heating oil or were never utilized. The tanks were cleaned in accordance with acceptable industry standards and NJDEP protocol. No free liquids are present in the dumpster.

If you should require any additional information or help at this time, please contact Mr. Charles Appleby, Environmental Protection Specialist. He can be reached at the following telephone number: (732) 532-6224.

Sincerely,

James Ott, PE
Director, Public Works

Attachments: None

MONMOUTH COUNTY RECLAMATION CENTER
TINTON FALLS, NJ
MAILING ADDRESS: 6000 ASBURY AVE. NEPTUNE, NJ 07753

CUSTOMER COPY

FACILITY I.D. NO. 1336F1SP01

RECEIPT DOCUMENT NUMBER

01723947

BILL TO
MARP508937
MARPAL COMPANY
PO BOX 188
LINCROFT NJ 07738

RATE
MARP508937
MARPAL COMPANY
PO BOX 188
LINCROFT 78109 NJ 07738
Escrow Level: 2400.00

DATE	ENTRY TIME	OPER.	EXIT TIME	OPER.	GROSS WEIGHT	TARE WEIGHT	NET WEIGHT
10/08/98	07:45	VJF	08:01	KRW	(42360 LB)	(36540 LB)	5820 LB)
					Scale 02	Scale 04	
00874427	Scale 02		Scale 04		(21.18 T)	(18.27 T)	2.91 T)

VEHICLE NUMBER	VEHICLE TYPE	PLATE NUMBER	TRANSACTION TYPE
2065AU	Rolloff Open 20	XX89HD	1 US (2500 AMT) Normal

QUANTITY	WC	DESCRIPTION/ORIGIN	UNITS	UNIT PRICE	AMOUNT
2.9100	13	Bulky Waste - (MRF) MONMOUTH COUNTY EATONTOWN BOROUGH	Tons 100.00	88.15	256.52

I hereby certify that the information provided on this form is true to the best of my knowledge. Remit payment to: 81806.32 ***

DRIVER NAME PRINT D Jaques SIGNATURE

DOCUMENT TOTAL $256.52

APPENDIX D

Soil Analytical Data Package

APPENDIX D

Soil Analytical Data Package

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-3484
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING
NJDEP LABORATORY CERTIFICATION # 13461

ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIROMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: #98-0001/BLDG. 2707

BLDG. 2707/Acetone Tank

Field Location No. & Location	Laboratory Sample ID#	Matrix	Date and Time Of Collection	Date Received
2707-A	3829.01	Soil	26-Aug-98 11:00	08/26/98
2707-B	3829.02	Soil	26-Aug-98 11:04	08/26/98
2707-C	3829.03	Soil	26-Aug-98 11:11	08/26/98
2707-D	3829.04	Soil	26-Aug-98 11:14	08/26/98
2707-E	3829.05	Soil	26-Aug-98 11:19	08/26/98
Dup.	3829.06	Soil	26-Aug-98	08/26/98
TB	3829.07	Soil	26-Aug-98	08/26/98

ANALYSIS:
FORT MONMOUTH ENVIROMENTAL LAB
VOA+15, % SOLIDS

10/15/98
Daniel Wright/Date
Laboratory Director

ENCLOSURE:
CHAIN OF CUSTODY
RESULTS

Table of Contents

Section	Pages
Cover Sheet	1
Table of Contents	2
Method Summary	3
Conformance/Non-Conformance	4-5
Chain of Custody	6-7
Qualifiers	8
Results Summary	9A-24
Tentatively Identified Compound Summary	25-32
Initial Calibration Summary	33-34
Continuing Calibration Summary	35-36
Tune Summary	37-40
Blank Summary	41
MS/MSD Results Summary	42
Internal Standard Summary	43
Surrogate Summary	44
Raw Sample Data	45-60
Laboratory Deliverable Checklist	61

Method Summary

NJDEP Method 8260

Gas Chromatographic Determination of Volatiles in Soil

A 50uL volume of Methanol Samples soil is added to 5mL aliquot of water. Surrogates and internal standards are added and the sample is placed on a purge and trap concentrator. The sample as purged and desorbed into a GC/MS system.

Volatiles are identified and quantitated. The final concentration is calculated using soil weight, percent solid, methanol volume and concentration.

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT

	Indicate Yes, No, N/A
1. Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks)	Yes
2. Retention times for chromatograms provided	Yes
3. GC/MS Tune Specifications	
a. BFB Meet Criteria	Yes
b. DFTPP Meet Criteria	NA
4. GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 series	Yes
5. GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series	Yes
6. GC/MS Calibration Requirements	
a. Calibration Check Compounds Meet Criteria	Yes
b. System Performance Check Compounds Meet Criteria	Yes
7. Blank Contamination - If yes, List compounds and concentrations in each blank:	No
a. VOA Fraction _____	
b. B/N Fraction _____	
c. Acid Fraction _____	
8. Surrogate Recoveries Meet Criteria	Yes
If not met, list those compounds and their recoveries which fall outside the acceptable range:	
a. VOA Fraction_____	
b. B/N Fraction_____	
c. Acid Fraction_____	
If not met, were the calculations checked and the results qualified as "estimated"?	___
9. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria (If not met, list those compounds and their recoveries which fall outside the acceptable range)	Yes
a. VOA Fraction_____	
b. B/N Fraction_____	
c. Acid Fraction_____	

GC/MS Analysis Conformance/Non-Conformance Summary (cont.)

Indicate
Yes, No, N/A

10. Internal Standard Area/Retention Time Shift Meet Criteria — YES
(If not met, list those compounds which fall outside the acceptable range)
   a. VOA Fraction_____
   b. B/N Fraction_____
   c. Acid Fraction_____

11. Extraction Holding Time Met — NA

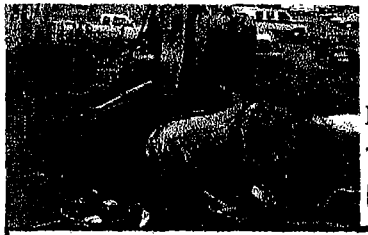
If not met, list number of days exceeded for each sample: ___
_____
_____

12. Analysis Holding Time Met — YES

If not met, list number of days exceeded for each sample: ___
_____
_____

Additional Comments:
_____
_____
_____

Laboratory Manager: _____ Date: 10/15/99



Fort Monmouth Environmental Testing Laboratory

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

Chain of Custody Record

Customer: Charles Appleby
Phone #: X26224
( )DERA (X)OMA UST Assessment

Project No: 98-0001
Location: B.2707 ACETONE TANK
UST# 81515-51

Samplers Name / Company : Gary DiMartinis TVS

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	TPHC	% SOLIDS	VOA+15	VOA ID Number	OVA	Remarks / Preservation Method
38294 01	2707-A	8-26-98	1150	SOIL	2		X	X		ND	CENTER LINE @ 10.0'*
02	B		1104							ND	↓
03	C		1111							ND	SIDEWALL @ 9.5'
04	D		1114							ND	↓
05	E		1119							ND	Piping Run @ 3.0'
06	DUP		—	↓	↓					—	FIELD DUPLICATE
— 07	TB	↓	—	METHANOL	1		↓	↓		—	TRIP BLANK ↓

Analysis Parameters

Comments:
* = Samples Kept <4 Celsius

Note: OVA(#A51903) Calibrated With 95 ppm Methane & Zero Air @ 1045 on 8-26-98 by Gary DiMartinis

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
[signature]	8-26-98 1530	[signature]			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
		[signature]			

Report Type: (_)Full, (X)Reduced, (_)Standard, (_)Screen / non-certified
Turnaround time: (X)Standard 4 wks, (_)Rush ____ Days, (_)ASAP Verbal ____ Hrs.

Remarks: Dedicated Sampling Tools Used

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

Volatiles

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

VBLK93

Lab Name: FMETL NJDEP # 13461

Project: 980001 Case No.: 3829 Location: B.2707 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: VBLK93

Sample wt/vol: 10.0 (g/ml) G Lab File ID: V04524.D

Level: (low/med) MED Date Received: 08/26/98

% Moisture: not dec. 0 Date Analyzed: 09/02/98

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.

VBLK93

Lab Name: FMETL NJDEP # 13461

Project: 980001 Case No.: 3829 Location: B.2707 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: VBLK93

Sample wt/vol: 10.0 (g/ml) G Lab File ID: V04524.D

Level: (low/med) MED Date Received: 08/26/98

% Moisture: not dec. 0 Date Analyzed: 09/02/98

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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
541-73-1	1,3-Dichlorobenzene	750	U
106-46-7	1,4-Dichlorobenzene	750	U
95-50-1	1,2-Dichlorobenzene	750	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

A

Lab Name: FMETL NJDEP # 13461

Project: 980001 Case No.: 3829 Location: B.2707 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 3829.01

Sample wt/vol: 10.8 (g/ml) G Lab File ID: V04531.D

Level: (low/med) MED Date Received: 08/26/98

% Moisture: not dec. 9.02 Date Analyzed: 09/02/98

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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	760	U
108203	Di-isopropyl ether	510	U
	Dichlorodifluoromethane	1000	U
74-87-3	Chloromethane	250	U
75-01-4	Vinyl Chloride	760	U
74-83-9	Bromomethane	510	U
75-00-3	Chloroethane	760	U
75-69-4	Trichlorofluoromethane	510	U
75-35-4	1,1-Dichloroethene	250	U
67-64-1	Acetone	510	U
75-15-0	Carbon Disulfide	250	U
75-09-2	Methylene Chloride	510	U
156-60-5	trans-1,2-Dichloroethene	510	U
75-35-3	1,1-Dichloroethane	250	U
108-05-4	Vinyl Acetate	760	U
78-93-3	2-Butanone	760	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	510	U
71-43-2	Benzene	250	U
107-06-2	1,2-Dichloroethane	510	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	510	U
10061-01-5	cis-1,3-Dichloropropene	250	U
108-10-1	4-Methyl-2-Pentanone	510	U
108-88-3	Toluene	250	U
10061-02-6	trans-1,3-Dichloropropene	510	U
79-00-5	1,1,2-Trichloroethane	510	U
127-18-4	Tetrachloroethene	250	U
591-78-6	2-Hexanone	510	U
126-48-1	Dibromochloromethane	510	U
108-90-7	Chlorobenzene	250	U
100-41-4	Ethylbenzene	510	U

1A

FIELD ID.

VOLATILE ORGANICS ANALYSIS DATA SHEET

	A

Lab Name: FMETL NJDEP # 13461

Project: 980001 Case No.: 3829 Location: B.2707 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 3829.01

Sample wt/vol: 10.8 (g/ml) G Lab File ID: V04531.D

Level: (low/med) MED Date Received: 08/26/98

% Moisture: not dec. 9.02 Date Analyzed: 09/02/98

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1330-20-7	m+p-Xylenes	760	U
1330-20-7	o-Xylene	510	U
100-42-5	Styrene	510	U
75-25-2	Bromoform	510	U
79-34-5	1,1,2,2-Tetrachloroethane	510	U
541-73-1	1,3-Dichlorobenzene	760	U
106-46-7	1,4-Dichlorobenzene	760	U
95-50-1	1,2-Dichlorobenzene	760	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

B

Lab Name: FMETL NJDEP # 13461

Project: 980001 Case No.: 3829 Location: B.2707 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 3829.02

Sample wt/vol: 12.1 (g/ml) G Lab File ID: V04532.D

Level: (low/med) MED Date Received: 08/26/98

% Moisture: not dec. 12.24 Date Analyzed: 09/02/98

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
107028	Acrolein	1600	U
107131	Acrylonitrile	1600	U
75650	tert-Butyl alcohol	3100	U
1634044	Methyl-tert-Butyl ether	710	U
108203	Di-isopropyl ether	470	U
	Dichlorodifluoromethane	940	U
74-87-3	Chloromethane	240	U
75-01-4	Vinyl Chloride	710	U
74-83-9	Bromomethane	470	U
75-00-3	Chloroethane	710	U
75-69-4	Trichlorofluoromethane	470	U
75-35-4	1,1-Dichloroethene	240	U
67-64-1	Acetone	470	U
75-15-0	Carbon Disulfide	240	U
75-09-2	Methylene Chloride	470	U
156-60-5	trans-1,2-Dichloroethene	470	U
75-35-3	1,1-Dichloroethane	240	U
108-05-4	Vinyl Acetate	710	U
78-93-3	2-Butanone	710	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	470	U
71-43-2	Benzene	240	U
107-06-2	1,2-Dichloroethane	470	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	470	U
10061-01-5	cis-1,3-Dichloropropene	240	U
108-10-1	4-Methyl-2-Pentanone	470	U
108-88-3	Toluene	240	U
10061-02-6	trans-1,3-Dichloropropene	470	U
79-00-5	1,1,2-Trichloroethane	470	U
127-18-4	Tetrachloroethene	240	U
591-78-6	2-Hexanone	470	U
126-48-1	Dibromochloromethane	470	U
108-90-7	Chlorobenzene	240	U
100-41-4	Ethylbenzene	470	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

B

Lab Name: FMETL NJDEP # 13461

Project: 980001 Case No.: 3829 Location: B.2707 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 3829.02

Sample wt/vol: 12.1 (g/ml) G Lab File ID: V04532.D

Level: (low/med) MED Date Received: 08/26/98

% Moisture: not dec. 12.24 Date Analyzed: 09/02/98

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1330-20-7	m+p-Xylenes	710	U
1330-20-7	o-Xylene	470	U
100-42-5	Styrene	470	U
75-25-2	Bromoform	470	U
79-34-5	1,1,2,2-Tetrachloroethane	470	U
541-73-1	1,3-Dichlorobenzene	710	U
106-46-7	1,4-Dichlorobenzene	710	U
95-50-1	1,2-Dichlorobenzene	710	U

1A

FIELD ID.

VOLATILE ORGANICS ANALYSIS DATA SHEET

C

Lab Name: FMETL NJDEP # 13461

Project: 980001 Case No.: 3829 Location: B.2707 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 3829.03

Sample wt/vol: 11.0 (g/ml) G Lab File ID: V04533.D

Level: (low/med) MED Date Received: 08/26/98

% Moisture: not dec. 8.25 Date Analyzed: 09/02/98

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	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	250	U
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	250	U
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	490	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

C

Lab Name: FMETL NJDEP # 13461

Project: 980001 Case No.: 3829 Location: B.2707 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 3829.03

Sample wt/vol: 11.0 (g/ml) G Lab File ID: V04533.D

Level: (low/med) MED Date Received: 08/26/98

% Moisture: not dec. 8.25 Date Analyzed: 09/02/98

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1330-20-7	m+p-Xylenes	740	U
1330-20-7	o-Xylene	490	U
100-42-5	Styrene	490	U
75-25-2	Bromoform	490	U
79-34-5	1,1,2,2-Tetrachloroethane	490	U
541-73-1	1,3-Dichlorobenzene	740	U
106-46-7	1,4-Dichlorobenzene	740	U
95-50-1	1,2-Dichlorobenzene	740	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

D

Lab Name: FMETL NJDEP # 13461

Project: 980001 Case No.: 3829 Location: B.2707 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 3829.04

Sample wt/vol: 11.7 (g/ml) G Lab File ID: V04534.D

Level: (low/med) MED Date Received: 08/26/98

% Moisture: not dec. 3.74 Date Analyzed: 09/02/98

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	1600	U
107131	Acrylonitrile	1600	U
75650	tert-Butyl alcohol	2900	U
1634044	Methyl-tert-Butyl ether	670	U
108203	Di-isopropyl ether	450	U
	Dichlorodifluoromethane	890	U
74-87-3	Chloromethane	220	U
75-01-4	Vinyl Chloride	670	U
74-83-9	Bromomethane	450	U
75-00-3	Chloroethane	670	U
75-69-4	Trichlorofluoromethane	450	U
75-35-4	1,1-Dichloroethene	220	U
67-64-1	Acetone	450	U
75-15-0	Carbon Disulfide	220	U
75-09-2	Methylene Chloride	450	U
156-60-5	trans-1,2-Dichloroethene	450	U
75-35-3	1,1-Dichloroethane	220	U
108-05-4	Vinyl Acetate	670	U
78-93-3	2-Butanone	670	U
	cis-1,2-Dichloroethene	220	U
67-66-3	Chloroform	220	U
75-55-6	1,1,1-Trichloroethane	220	U
56-23-5	Carbon Tetrachloride	450	U
71-43-2	Benzene	220	U
107-06-2	1,2-Dichloroethane	450	U
79-01-6	Trichloroethene	220	U
78-87-5	1,2-Dichloropropane	220	U
75-27-4	Bromodichloromethane	220	U
110-75-8	2-Chloroethyl vinyl ether	450	U
10061-01-5	cis-1,3-Dichloropropene	220	U
108-10-1	4-Methyl-2-Pentanone	450	U
108-88-3	Toluene	220	U
10061-02-6	trans-1,3-Dichloropropene	450	U
79-00-5	1,1,2-Trichloroethane	450	U
127-18-4	Tetrachloroethene	220	U
591-78-6	2-Hexanone	450	U
126-48-1	Dibromochloromethane	450	U
108-90-7	Chlorobenzene	220	U
100-41-4	Ethylbenzene	450	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

D

Lab Name: FMETL NJDEP # 13461

Project: 980001 Case No.: 3829 Location: B.2707 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 3829.04

Sample wt/vol: 11.7 (g/ml) G Lab File ID: V04534.D

Level: (low/med) MED Date Received: 08/26/98

% Moisture: not dec. 3.74 Date Analyzed: 09/02/98

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1330-20-7	m+p-Xylenes	670	U
1330-20-7	o-Xylene	450	U
100-42-5	Styrene	450	U
75-25-2	Bromoform	450	U
79-34-5	1,1,2,2-Tetrachloroethane	450	U
541-73-1	1,3-Dichlorobenzene	670	U
106-46-7	1,4-Dichlorobenzene	670	U
95-50-1	1,2-Dichlorobenzene	670	U

1A

FIELD ID.

VOLATILE ORGANICS ANALYSIS DATA SHEET

E

Lab Name: FMETL NJDEP # 13461

Project: 980001 Case No.: 3829 Location: B.2707 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 3829.05

Sample wt/vol: 10.4 (g/ml) G Lab File ID: V04535.D

Level: (low/med) MED Date Received: 08/26/98

% Moisture: not dec. 11.99 Date Analyzed: 09/02/98

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1330-20-7	m+p-Xylenes	820	U
1330-20-7	o-Xylene	550	U
100-42-5	Styrene	550	U
75-25-2	Bromoform	550	U
79-34-5	1,1,2,2-Tetrachloroethane	550	U
541-73-1	1,3-Dichlorobenzene	820	U
106-46-7	1,4-Dichlorobenzene	820	U
95-50-1	1,2-Dichlorobenzene	820	U

1A

FIELD ID.

VOLATILE ORGANICS ANALYSIS DATA SHEET

DUP

Lab Name: FMETL NJDEP # 13461

Project: 980001 Case No.: 3829 Location: B.2707 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 3829.06

Sample wt/vol: 10.0 (g/ml) G Lab File ID: V04536.D

Level: (low/med) MED Date Received: 08/26/98

% Moisture: not dec. 11.33 Date Analyzed: 09/02/98

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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	280	U
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	280	U
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	560	U

1A

FIELD ID.

VOLATILE ORGANICS ANALYSIS DATA SHEET

DUP

Lab Name: FMETL NJDEP # 13461

Project: 980001 Case No.: 3829 Location: B.2707 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 3829.06

Sample wt/vol: 10.0 (g/ml) G Lab File ID: V04536.D

Level: (low/med) MED Date Received: 08/26/98

% Moisture: not dec. 11.33 Date Analyzed: 09/02/98

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1330-20-7	m+p-Xylenes	840	U
1330-20-7	o-Xylene	560	U
100-42-5	Styrene	560	U
75-25-2	Bromoform	560	U
79-34-5	1,1,2,2-Tetrachloroethane	560	U
541-73-1	1,3-Dichlorobenzene	840	U
106-46-7	1,4-Dichlorobenzene	840	U
95-50-1	1,2-Dichlorobenzene	840	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID.

TB

Lab Name: FMETL NJDEP # 13461

Project: 980001 Case No.: 3829 Location: B.2707 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 3829.07

Sample wt/vol: 10.0 (g/ml) G Lab File ID: V04537.D

Level: (low/med) MED Date Received: 08/26/98

% Moisture: not dec. 0 Date Analyzed: 09/02/98

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.

TB

Lab Name: FMETL NJDEP # 13461

Project: 980001 Case No.: 3829 Location: B.2707 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 3829.07

Sample wt/vol: 10.0 (g/ml) G Lab File ID: V04537.D

Level: (low/med) MED Date Received: 08/26/98

% Moisture: not dec. 0 Date Analyzed: 09/02/98

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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
541-73-1	1,3-Dichlorobenzene	750	U
106-46-7	1,4-Dichlorobenzene	750	U
95-50-1	1,2-Dichlorobenzene	750	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

VBLK93

Lab Name: FMETL NJDEP # 13461

Project: 980001 Case No.: 3829 Location: B.2707 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: VBLK93

Sample wt/vol: 10.0 (g/ml) G Lab File ID: V04524.D

Level: (low/med) MED Date Received: 08/26/98

% Moisture: not dec. 0 Date Analyzed: 09/02/98

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	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

A

Lab Name: FMETL NJDEP # 13461

Project: 980001 Case No.: 3829 Location: B.2707 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 3829.01

Sample wt/vol: 10.8 (g/ml) G Lab File ID: V04531.D

Level: (low/med) MED Date Received: 08/26/98

% Moisture: not dec. 9.02 Date Analyzed: 09/02/98

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	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID. **B**

Lab Name: FMETL NJDEP # 13461

Project: 980001 Case No.: 3829 Location: B.2707 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 3829.02

Sample wt/vol: 12.1 (g/ml) G Lab File ID: V04532.D

Level: (low/med) MED Date Received: 08/26/98

% Moisture: not dec. 12.24 Date Analyzed: 09/02/98

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: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown hydrocarbon	14.24	1500	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID.

TENTATIVELY IDENTIFIED COMPOUNDS

C

Lab Name: FMETL NJDEP # 13461

Project: 980001 Case No.: 3829 Location: B.2707 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 3829.03

Sample wt/vol: 11.0 (g/ml) G Lab File ID: V04533.D

Level: (low/med) MED Date Received: 08/26/98

% Moisture: not dec. 8.25 Date Analyzed: 09/02/98

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	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

D

Lab Name: FMETL NJDEP # 13461

Project: 980001 Case No.: 3829 Location: B.2707 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 3829.04

Sample wt/vol: 11.7 (g/ml) G Lab File ID: V04534.D

Level: (low/med) MED Date Received: 08/26/98

% Moisture: not dec. 3.74 Date Analyzed: 09/02/98

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	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

E

Lab Name: FMETL NJDEP # 13461

Project: 980001 Case No.: 3829 Location: B.2707 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 3829.05

Sample wt/vol: 10.4 (g/ml) G Lab File ID: V04535.D

Level: (low/med) MED Date Received: 08/26/98

% Moisture: not dec. 11.99 Date Analyzed: 09/02/98

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	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

DUP

Lab Name: FMETL NJDEP # 13461

Project: 980001 Case No.: 3829 Location: B.2707 SDG No.:

Matrix: (soil/water) SOIL

Lab Sample ID: 3829.06

Sample wt/vol: 10.0 (g/ml) G

Lab File ID: V04536.D

Level: (low/med) MED

Date Received: 08/26/98

% Moisture: not dec. 11.33

Date Analyzed: 09/02/98

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	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

TB

Lab Name: FMETL NJDEP # 13461

Project: 980001 Case No.: 3829 Location: B.2707 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 3829.07

Sample wt/vol: 10.0 (g/ml) G Lab File ID: V04537.D

Level: (low/med) MED Date Received: 08/26/98

% Moisture: not dec. 0 Date Analyzed: 09/02/98

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	RT	EST. CONC.	Q

1A

FIELD ID.

VOLATILE ORGANICS ANALYSIS DATA SHEET

E

Lab Name: FMETL NJDEP # 13461

Project: 980001 Case No.: 3829 Location: B.2707 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 3829.05

Sample wt/vol: 10.4 (g/ml) G Lab File ID: V04535.D

Level: (low/med) MED Date Received: 08/26/98

% Moisture: not dec. 11.99 Date Analyzed: 09/02/98

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	270	U
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	270	U
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	550	U