



DEPARTMENT OF THE ARMY

OFFICE OF ASSISTANT CHIEF OF STAFF FOR INSTALLATION MANAGEMENT
U.S. ARMY FORT MONMOUTH
P.O. 148
OCEANPORT, NEW JERSEY 07757

April 14, 2015

Ms. Linda Range
New Jersey Department of Environmental Protection
Case Manager
Bureau of Southern Field Operations
401 East State Street, 5th Floor
PO Box 407
Trenton, NJ 08625

**Re: Underground Storage Tanks within Parcel 68
 Fort Monmouth, NJ**

Attachments:

- A. Summary Table of Parcel 68 Underground Storage Tanks
- B. Site Layout Drawings of Parcel 68 (2 drawings)
- C. No Further Action Letters from NJDEP
- D. UST 906A Report
- E. UST 910 File Review and Analyses

Dear Ms. Range:

The U.S. Army Fort Monmouth (FTMM) has reviewed existing file information for underground storage tank (UST) sites at Fort Monmouth within Environmental Condition of Property (ECP) Parcel 68. The purpose of this submittal is to provide comprehensive documentation of the location and closure status of all USTs identified within this parcel, which we believe will be useful for the future Phase II property transfer.

A summary table of USTs identified within Parcel 68 is provided as Attachment A, and the locations of these USTs within Parcel 68 are presented in Attachment B. All of the USTs identified within Parcel 68 have been removed.

Multiple USTs within Parcel 68 have been identified that were previously approved for No Further Action (NFA) by NJDEP; documentation of this approval is provided in Attachment C, and referenced below for specific USTs. In these cases, there is generally a supporting investigation report that was previously submitted to NJDEP that describes the basis for closure. For the sake of brevity, we have not included these reports for USTs where an NFA has already been approved. However, these reports are available within the FTMM environmental records.

In the Attachment A table, the term "Case Closed" has been used (consistent with previous FTMM procedures) to indicate the Army determined that no further sampling or remedial actions were warranted for a specific UST site. All Parcel 68 USTs were designated as "Case Closed." "Case Open" would indicate that the Army determined that ongoing monitoring, reporting or possibly even remedial action was warranted. In contrast, "No Further Action" has been reserved for NJDEP approval that no further sampling or remedial actions are warranted.

Parcel 68 generally includes the 900 Area of Fort Monmouth. It is an irregularly shaped area centered near the intersection of Murphy Drive and Courier Avenue of the Main Post. It was designated in the ECP Report as the 900 Building Area Former USTs. Several UST sites (901, 916, 917 and 918) were located outside of the Parcel 68 boundary as designated by the ECP Report, but have been included in this submittal based on proximity and similar site histories.

We are submitting the following documentation for the multiple USTs that were previously removed from Parcel 68, and we request a No Further Action determination for each site (sites that have been previously approved by NJDEP are highlighted in green):

- UST 901 NFA was approved by NJDEP on 8/29/2000 (Attachment C).
- UST 902 NFA was approved by NJDEP on 7/10/1998 (Attachment C).
- UST 905 NFA was approved by NJDEP on 1/10/2003 (Attachment C).
- UST 906A investigation report is presented in Attachment D.
- UST 906B NFA was approved by NJDEP on 8/29/2000 (Attachment C).
- UST 907 NFA was approved by NJDEP on 2/24/2000 (Attachment C).
- UST 909 NFA was approved by NJDEP on 10/23/2000 (Attachment C).
- UST 910 File Review summary and analyses is presented in Attachment E.
- UST 911 NFA was approved by NJDEP on 2/24/2000 (Attachment C).
- UST 912 NFA was approved by NJDEP on 2/24/2000 (Attachment C).
- UST 913 NFA was approved by NJDEP on 2/24/2000 (Attachment C).
- UST 914 NFA was approved by NJDEP on 10/23/2000 (Attachment C).
- UST 915 NFA was approved by NJDEP on 10/23/2000 (Attachment C).
- UST 916 NFA was approved by NJDEP on 2/24/2000 (Attachment C).
- UST 917 NFA was approved by NJDEP on 2/24/2000 (Attachment C).
- UST 918 NFA was approved by NJDEP on 2/24/2000 (Attachment C).
- UST 977 NFA was approved by NJDEP on 10/23/2000 (Attachment C).
- UST 979 NFA was approved by NJDEP on 10/23/2000 (Attachment C).

This information supports the conclusion that all UST soil contamination issues identified within Parcel 68 have been adequately addressed by previous environmental activities. One unresolved groundwater issue has been identified:

- Groundwater at UST 906A exceeds the NJDEP Ground Water Quality Criteria for 2-methylnaphthalene.

In summary, we submit that the Army has provided adequate due diligence with regards to the environmental condition of this Parcel, and we request that NJDEP approve No Further Action. Should you have any questions or require additional information, please contact me at (732) 380-7064 or by email at wanda.s.green2.civ@mail.mil.

Sincerely,

A handwritten signature in cursive script that reads "Wanda Green".

Wanda Green
BRAC Environmental Coordinator

cc: Delight Balducci, HQDA ACSIM
Joseph Pearson, Calibre
James Moore, USACE
Cris Grill, Parsons

ATTACHMENT A

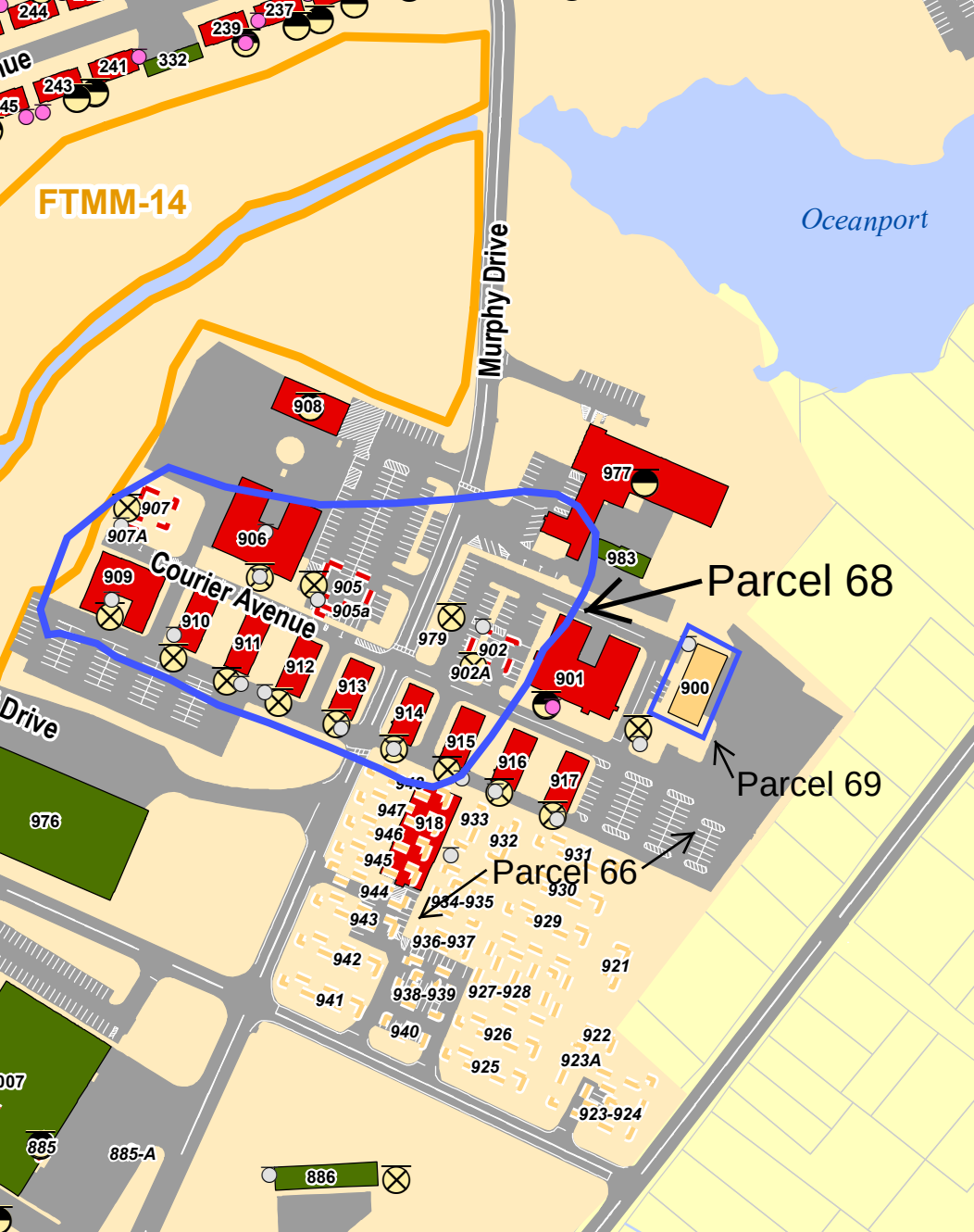
Summary Table of Parcel 68 Underground Storage Tanks

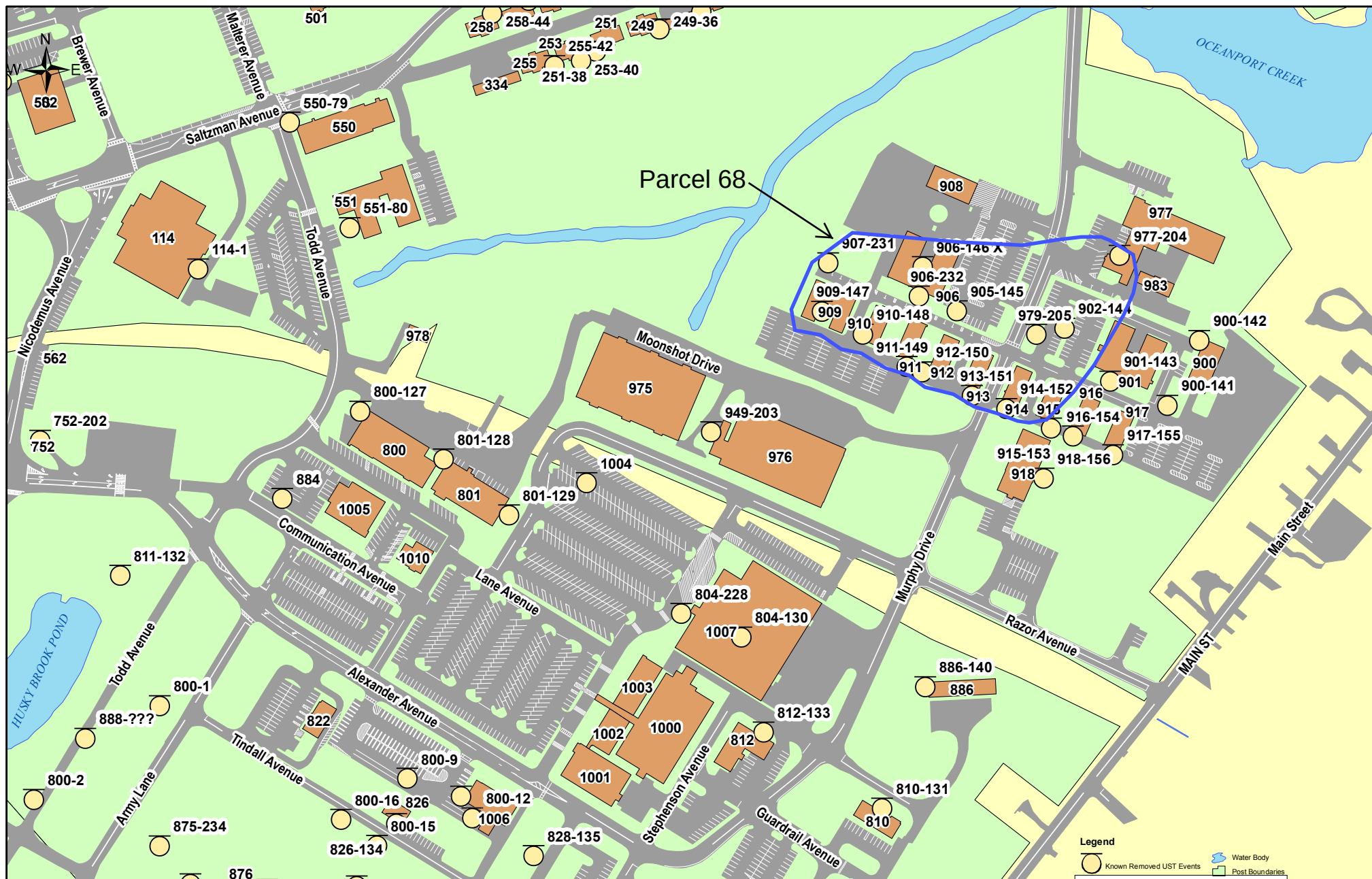
Summary Table of Parcel 68 USTs

Site Name	RESIDENTIAL	Registration ID	DICAR	Tank Size and Type	Product	CaseStatus	In Parcel 68?	File Review Comments
901	NO	81533-143		2000 gal. fiberglass	#2 FUEL OIL	Case Closed	Nearby	NJDEP closure letter 8/29/2000
902	NO	81533-144		1000 gal. steel	#2 FUEL OIL	Case Closed	Yes	NJDEP closure letter 7/10/1998
905	NO	81533-145	97-06-24-1325-26	1000 gal. steel	#2 FUEL OIL	Case Closed	Yes	NJDEP closure letter 1/10/2003
906A	NO	81533-146		1000 gal. steel	#2 FUEL OIL	Case Closed	Yes	Submit 2006 TVS Report and request NFA
906B	NO	81533-232		550 gal. steel	#2 FUEL OIL	Case Closed	Yes	NJDEP closure letter 8/29/2000
907	NO	81533-231		1080 gal. steel	#2 FUEL OIL	Case Closed	Yes	NJDEP closure letter 2/24/2000
909	NO	81533-147	98-03-10-1634-02	1000 gal. steel	#2 FUEL OIL	Case Closed	Yes	NJDEP closure letter 10/23/2000
910	NO	81533-148		1000 gal. steel	#2 FUEL OIL	Case Closed	Yes	Submit 2006 Geoprobe results and request NFA
911	NO	81533-149	98-01-02-1141-57	1080 gal. steel	#2 FUEL OIL	Case Closed	Yes	NJDEP closure letter 2/24/2000
912	NO	81533-150	97-12-29-1342-37	1080 gal. steel	#2 FUEL OIL	Case Closed	Yes	NJDEP closure letter 2/24/2000
913	NO	81533-151	97-12-10-1510-14	1080 gal. steel	#2 FUEL OIL	Case Closed	Yes	NJDEP closure letter 2/24/2000
914	NO	81533-152	98-03-18-902-12	1080 gal. steel	#2 FUEL OIL	Case Closed	Yes	NJDEP closure letter 10/23/2000
915	NO	81533-153		1080 gal. steel	#2 FUEL OIL	Case Closed	Yes	NJDEP closure letter 10/23/2000
916	NO	81533-154		1080 gal. steel	#2 FUEL OIL	Case Closed	Nearby	NJDEP closure letter 2/24/2000
917	NO	81533-155		1080 gal. steel	#2 FUEL OIL	Case Closed	Nearby	NJDEP closure letter 2/24/2000
918	NO	81533-156		1500 gal. steel	#2 FUEL OIL	Case Closed	Nearby	NJDEP closure letter 2/24/2000
977	NO	81533-204		500 gal. fiberglass	DIESEL	Case Closed	Yes	NJDEP closure letter 10/23/2000
979	NO	81533-205	98-06-12-1329-17	275 gal. steel	DIESEL	Case Closed	Yes	NJDEP closure letter 10/23/2000

ATTACHMENT B

Site Layout Drawings of Parcel 68





UST Removal Reference Map Grid C3; Main Post Fort Monmouth, New Jersey **FOUO**

0 150 300 600 Feet

Legend

- Known Removed UST Events
- Reference Map Links
- Demolished Building
- Existing Building
- Roadway & Parking
- Water Body
- Post Boundaries

Map Created by:
Fort Monmouth Installation GIO, Environmental Division
Fort Monmouth, New Jersey
Date: August 10, 2011
All drawings must be field verified.
New Jersey State Plane Feet, NAD83

ATTACHMENT C

No Further Action Letters from NJDEP



State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Robert C. Shinn, Jr.
Commissioner

Mr. James Ott
Director - Public Works
U.S. Army, Fort Monmouth
Fort Monmouth, NJ 07703

JUL 10 1998

Re: UST Closure Reports
Fort Monmouth Army Base
Tinton Falls, Monmouth County

Dear Mr. Ott:

The NJDEP is in receipt of UST closure reports noted below. These documents have been reviewed by the NJDEP throughout the closure process and the documents submitted were discussed throughout their drafting and in great detail upon submittal. Based on these steps and the final review conducted by me, the NJDEP accepts the closure reports and all of the NFA requests commensurate with these submittals.

NJDEP REG. NO.	BUILDING	CONTENTS	CAPACITY	PROPOSAL	DEP APPROVAL
90010-10	116C-MP/E	No. 2 Fuel Oil	2000	NFA	YES
81533-134	876-MP/W	No. 2 Fuel Oil	550	NFA	YES
81533-144	902-MP/W	No. 2 Fuel Oil	1000	NFA	YES
81515-20	2529-CW	No. 2 Fuel	1000	NFA	YES
81515-22	2532-CW	No. 2 Fuel Oil	550	NFA	YES
81515-23	2533-CW	No. 2 Fuel Oil	1000	NFA	YES
81515-31	2561-CW	No. 2 Fuel Oil	550	NFA	YES
90010-27	410-MP/E	No. 2 Fuel Oil	1080	NFA	YES
81533-206	1075	NOT SUBMITTED		WITH	PACKAGE
81515-16	2504B-CW	No. 2 Fuel Oil	1000	NFA	YES
81515-18	2507-CW	No. 2 Fuel Oil	1080	NFA	YES
81515-26	2536-CW	No. 2 Fuel Oil	1000	NFA	YES
81515-14	2503-CW	No. 2 Fuel Oil	1000	NFA	YES
90010-12	117B-MP/E	No. 2 Fuel Oil	2000	NFA	YES
90010-34	418-MP/E	No. 2 Fuel Oil	1080	NFA	YES
90010-36	420-MP/E	No. 2 Fuel Oil	1080	NFA	YES
90010-38	422-MP/E	No. 2 Fuel Oil	1080	NFA	YES
90010-41	427-MP/E	No. 2 Fuel Oil	1080	NFA	YES
90010-44	430A-MP/E	No. 2 Fuel Oil	550	NFA	YES
90010-50	453-MP/E	No. 2 Fuel Oil	1080	NFA	YES
90010-51	454-MP/E	No. 2 Fuel Oil	1080	NFA	YES
81533-76	501-MP/W	No. 2 Fuel Oil	1000	NFA	YES
81533-141	900A-MP/W	No. 2 Fuel Oil	1000	NFA	YES
81515-17	2506-CW	No. 2 Fuel Oil	1000	NFA	YES
90010-9	116A-MP/E	No. 2 Fuel Oil	1000	NFA	YES
90010-11	117A-MP/E	No. 2 Fuel Oil	2000	NFA	YES
90010-53	480-MP/E	No. 2 Fuel Oil	1000	NFA	YES

81515-19	2508-CW	No. 2 Fuel Oil	550	NFA	YES
81533-228	804B-MP/W	No. 2 Fuel Oil	1000	NFA	YES
81534-142	900B-MP/W	No. 2 Fuel Oil	1000	NFA	YES

The efforts made to assure protection of human health and the environment as well as the efforts made to make the entire closure process efficient and consistent with the NJDEP's Technical Requirements for Site Remediation (N.J.A.C. 7:9-6 et seq.) has been exceptional.

If I can be of any assistance, please do not hesitate to contact me should you have any questions or comments.

Sincerely,



Ian R. Curtis, Case Manager
Bureau of Federal Case Management
ICURTIS@DEP.STATE.NJ.US

cc. Kevin Kratina, BUST

FTMMTH51.DOC



State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Robert C. Shinn, Jr.
Commissioner

Mr. James Ott
C/O: Dinker Desai
Director - Public Works
U.S. Army, Fort Monmouth
Fort Monmouth, NJ 07703

FEB 24 2000

Re: UST Closure Reports - Closure Approvals
Fort Monmouth Army Base
Fort Monmouth, Monmouth County

Dear Mr. Ott:

The NJDEP has reviewed the UST Closure and Site Investigation Reports for the Fort Monmouth underground storage tank sites noted below. Based on the NJDEP review of these documents, your request that the NJDEP approve the closure reports for those tanks listed below.

The following tanks were removed, sampled and analyzed in accordance with State and Federal requirements. Additionally, the reports consistently state the Fort Monmouth Public Works Department policy of removing all soils which are determined to have total petroleum hydrocarbon contamination (TPHC) greater than 1000 ppm. NJDEP criteria requires similar removal for TPHC contamination greater than 10,000 ppm. These activities are conservative and therefore further assure the NJDEP that no further action is necessary at these sites.

NJDEP Reg. #	Bldg. #	NJDEP Reg. #	Bldg. #
0081533-59	283B	*0081533-135	828
0090010-46	430C	0081533-136	864A
0081533-111	695	0081533-137	866
0081533-117	739	*0081533-231	907
0081533-118	744	0081533-154	916
0081533-121	747	0081533-156	918
0081533-124	787	0081533-170	1110
0081533-125	788	0081533-172	1123
0081533-128	801A	0081533-207	1150
0081533-133	812		

* No product lines were found during the excavation of the UST due to the fact the buildings were removed prior to the USTs. Based on a review of available maps and drawings, the product lines were less than 15 feet in length at each of the locations. Thus, no additional sampling was required.

If you should have any questions or comments, please do not hesitate to contact me at (609) 633-7232 or via E-mail.

Sincerely,

Ian R. Curtis, Case Manager
Bureau of Case Management
ICURTIS@DEP.STATE.NJ.US

FTMMTH063IRC.DOC



State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Robert C. Shinn, Jr.
Commissioner

Mr. James Ott
C/O: Dinker Desai
Director - Public Works
U.S. Army, Fort Monmouth
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FEB 24 2000

Re: UST Closure Reports - Closure Approvals
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NJDEP Req. #	Bldg. #	NJDEP Req. #	Bldg. #
0090016-16	165	0081533-151	913
0090010-69	170D	0081533-155	917
0090010-20	197	0081533-165	1105
0081533-54	270	0081533-169	1109
0081533-60	286	0081533-173	1213A
0081533-65	291	0081533-208	1221
0090010-70	400	00192486-34	2018
0081533-103	671A	00192486-35	2021A
0081533-138	876A	0081515-30	2543
0081533-149	911	0081515-40	2707
0081533-150	912		

If you should have any questions or comments, please do not hesitate to contact me at (609) 633-7232 or via E-mail.

Sincerely,

Ian R. Curtis, Case Manager
Bureau of Case Management
ICURTIS@DEP.STATE.NJ.US

FTMMTH064IRC.DOC



State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Robert C. Shinn, Jr.
Commissioner

AUG 29 2001

Mr. Dinkerrai Desai
DEPARTMENT OF THE ARMY
HEADQUARTERS, U.S. ARMY COMMUNICATIONS-ELECTRONIC COMMAND
FORT MONMOUTH, NJ 07703-5000

Re: UST Closure Approval/NFA
Fort Monmouth Main Post
Monmouth County

Dear Mr. Desai:

The NJDEP is in receipt of nine (9) UST closure reports dated July 27, 1998. The Army has requested to receive No Further Action approval letters for each of these reports. This letter approves the NFA requests for the following 9 UST located on the Main Post of the Fort Monmouth site:

NJDEP Req. #	Bldg. #
0090010-35	419
0090010-48	439
0090010-56	484
0081533-77	502
0081533-143	901
0081515-12	2275
0081515-13	2502
0081515-25	2535
0081515-27	2537

The NJDEP has determined that the Army has performed the remedial actions in a manner consistent or in excess of the regulatory requirements, specifically the Technical Requirements For Site Remediation (N.J.A.C. 7:26E et seq.). Soils with contamination in excess of the NJDEP residential cleanup criteria have been excavated and the Army has taken great care to provide documentation which assures us that all sources of contamination have been remediated.

If you should have any questions or comments, please do not hesitate to contact me at (609) 633-7232 or via E-mail.

Sincerely,


Ian R. Curtis, Case Manager
Bureau of Case Management
ICURTIS@DEP.STATE.NJ.US

FTMMTH069IRC.DOC



State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Robert C. Shinn, Jr.
Commissioner

Mr. Dinkerrai Desai
DEPARTMENT OF THE ARMY
HEADQUARTERS, U.S. ARMY COMMUNICATIONS-ELECTRONIC COMMAND
FORT MONMOUTH, NJ 07703-5000

Re: UST Closure Approval/NFA
Fort Monmouth Main Post
Monmouth County

OCT 23 2000

Dear Mr. Desai:

The NJDEP is in receipt of forty [REDACTED] UST closure reports dated September 11, 2000. The Army has requested to receive No Further Action approval letters for each of these reports. This letter approves the NFA requests for the following 40 UST located on the Main Post of the Fort Monmouth site:

NJDEP Req. #	Bldg. #	NJDEP Req. #	Bldg. #	NJDEP Req. #	Bldg. #
0090010-04	64B	0081533-79	550	0081533-179	1220F
0090010-09	116B	0081533-116	718	0081533-180	1220E
0090010-09	206B	0081533-202	752	0081533-181	1220D
0081533-56	275	0081533-147	909	0081533-182	1220C
0090010-23	276	0081533-152	914	0081533-183	1220B
0090010-25	280	0081533-153	915	00192486-36	2043
0081533-201	286/548A	0081533-204	977	0081515-15	2504A
0081533-62	288	0081533-205	979	0081515-35	2700
0081533-63	289	0081533-167	1107	0081515-36	2700
0081533-66	292	0081533-233	1107B	0081515-37	2700
0090010-43	429	0081533-175	1220J	0081515-38	2700
0090010-52	475	0081533-176	1220I	0081515-39	2700
0090010-55	483	0081533-177	1220H		
0081533-75	500	0081533-178	1220G		

The NJDEP has determined that the Army has performed the remedial actions in a manner consistent with the regulatory requirements, specifically the Technical Requirements For Site Remediation (N.J.A.C. 7:26E et seq.). Soils with contamination in excess of the NJDEP residential cleanup criteria have been excavated and the Army has taken great care to provide documentation that assures us that all sources of contamination have been remediated.

If you should have any questions or comments, please do not hesitate to contact me at (609) 633-7232 or via E-mail.

Sincerely,

Ian R. Curtis, Case Manager
Bureau of Case Management
ICURTIS@DEP.STATE.NJ.US

FTMMTH71IRC.DOC



State of New Jersey

James E. McGreevey
Governor

Department of Environmental Protection

Bradley M. Campbell
Commissioner

Mr. Dinkerrai Desai
DEPARTMENT OF THE ARMY
HEADQUARTERS, U.S. ARMY COMMUNICATIONS-ELECTRONIC COMMAND
FORT MONMOUTH, NJ 07703-5000

Re: UST Closure Approval/NFA
Fort Monmouth Main Post
Monmouth County

JAN 10 2003

Dear Mr. Desai:

The NJDEP is in receipt of sixty-eight (68) underground storage tank (UST) closure reports dated between July 17, 2001 and May 15, 2002. The Army has requested to receive No Further Action (NFA) approval letters for each of these reports. This letter approves the NFA requests for the following 68 UST that are located on the Main Post of the Fort Monmouth site:

Submittal Date	Building No.	NJDEP Reg. #	Residential
07/17/2001	104	90010-75	NO
07/17/2001	699A	81533-112	NO
07/17/2001	800A	81533-127	NO
07/17/2001	875	81533-234	NO
07/17/2001	949	81533-203	NO
07/17/2001	1220A	81533-184	NO
07/17/2001	2000B	192486-38	NO
01/02/2002	257	81533-200	NO
01/02/2002	283C	81533-229	NO
01/02/2002	290B	81533-224	NO
01/02/2002	290B	81533-225	NO
01/02/2002	491	90010-71	NO
01/02/2002	605	81533-85	NO
01/02/2002	678	81533-105	NO
01/02/2002	699	81533-236	NO
01/02/2002	699	81533-238	NO
01/02/2002	699	81533-237	NO
01/02/2002	699	81533-235	NO
01/02/2002	801B	81533-129	NO
01/02/2002	804A	81533-130	NO
01/02/2002	2337	81515-65	NO
01/02/2002	2562A	81515-41	NO
01/02/2002	2707	81515-50	NO
01/02/2002	2707	81515-49	NO
01/02/2002	2707	81515-51	NO
01/02/2002	2707	81515-47	NO
01/02/2002	2707	81515-48	NO

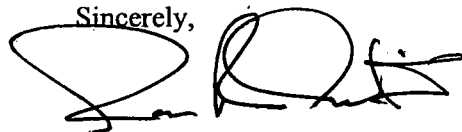
Submittal Date	Building No.	NJDEP Reg. #	Residential
02/13/2002	2044	192486-24	NO
02/13/2002	2044	192486-32	NO
02/13/2002	2044	192486-33	NO
02/26/2002	208B	81533-210	YES
03/05/2002	246	N/A	YES
03/05/2002	261B	N/A	YES
05/15/2002	106	90010-74	NO
05/15/2002	164	90010-15	NO
05/15/2002	173	90010-19	NO
05/15/2002	200	81533-2	NO
05/15/2002	208A	81533-6	YES
05/15/2002	233	81533-21	YES
05/15/2002	237	81533-25	YES
05/15/2002	271	81533-55	YES
05/15/2002	277	90010-24	NO
05/15/2002	296B	81533-217	NO
05/15/2002	296B	81533-223	NO
05/15/2002	296B	81533-221	NO
05/15/2002	296B	81533-220	NO
05/15/2002	296B	81533-222	NO
05/15/2002	296B	81533-218	NO
05/15/2002	296B	81533-216	NO
05/15/2002	296B	81533-215	NO
05/15/2002	296B	81533-214	NO
05/15/2002	296B	81533-213	NO
05/15/2002	296B	81533-219	NO
05/15/2002	426	90010-40	NO
05/15/2002	482	90010-54	NO
05/15/2002	600 A	81533-83	NO
05/15/2002	600 B	81533-212	NO
05/15/2002	611	81533-87	NO
05/15/2002	615	81533-89	NO
05/15/2002	618	81533-91	NO
05/15/2002	619	81533-92	NO
05/15/2002	621	81533-94	NO
05/15/2002	634	N/A	NO
05/15/2002	638	N/A	NO
05/15/2002	639-2	N/A	NO
05/15/2002	640	N/A	NO
05/15/2002	641	N/A	NO
05/15/2002	644	N/A	NO
05/15/2002	664	N/A	NO
05/15/2002	666	N/A	NO
05/15/2002	686	81533-107	NO
05/15/2002	697	81533-194	NO
05/15/2002	697	81533-195	NO

Submittal Date	Building No.	NJDEP Reg. #	Residential
05/15/2002	697	81533-196	NO
05/15/2002	876B	81533-139	NO
05/15/2002	886	81533-140	NO
05/15/2002	905	81533-145	NO
05/15/2002	1102	81533-162	NO
05/15/2002	1104	81533-164	NO
05/15/2002	2067	192486-37	NO
05/15/2002	2534	81515-24	NO
05/15/2002	2603	81515-60	NO
05/15/2002	2700 2,6	81515-61	NO

The NJDEP has determined that the Army has performed the remedial actions in a manner consistent with the regulatory requirements, specifically the Technical Requirements For Site Remediation (N.J.A.C. 7:26E et seq.). Soils with contamination in excess of the NJDEP residential cleanup criteria have been excavated and the Army has taken great care to provide documentation that assures us that all sources of contamination have been remediated.

If you should have any questions or comments, please do not hesitate to contact me at (609) 633-7232 or via E-mail.

Sincerely,



Ian R. Curtis, Case Manager
Bureau of Case Management
ICURTIS@DEP.STATE.NJ.US

ATTACHMENT D

UST 906A Report

U.S. Army Garrison
Fort Monmouth, New Jersey

**Underground Storage Tank
Closure Report**

*Main Post – Building 906A
Courier Ave.*

NJDEP UST Registration No. 81533-146

February 2008

UNDERGROUND STORAGE TANK REPORT

**MAIN POST -BUILDING 906A
NJDEP UST REGISTRATION NO. 81533-146**

FEBRUARY 2008

PREPARED FOR:

**U.S. ARMY GARRISON, FORT MONMOUTH, NJ
DIRECTORATE OF PUBLIC WORKS
BUILDING 167
FORT MONMOUTH, NJ 07703**

PROJECT NO. 06-34950

PREPARED BY:

**TECOM-VINNELL SERVICES, INC.
P.O. BOX 60
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EXECUTIVE SUMMARY

UST Closure

A single wall steel underground storage tank (UST) was closed by removal in accordance with the New Jersey Department of Environmental Protection (NJDEP) guidelines on June 26, 1990. The UST was located on the southwest side of Building 906A in the Main Post area of Fort Monmouth. UST No. 81533-146 was a 1,000-gallon tank containing No. 2 heating oil.

Site Assessment

This site assessment was performed by TECOM-Vinnell Service (TVS) personnel in accordance with the NJDEP *Technical Requirements for Site Remediation* (N.J.A.C. 7:26E) and the NJDEP *Field Sampling Procedures Manual*.

During the time of UST removal, no closure soil samples were collected. Soil sampling was not required at the time. However, in order to confirm that the tank did not leak, this subsurface investigation was conducted. On January 4, 2006, a Geoprobe was utilized to collect soil samples 906AC, 906AE, 906AW and 906AC (groundwater) from a total of three (3) locations along the tank centerline bottom. All soil samples were analyzed for total petroleum hydrocarbons (TPH). Groundwater was encountered at approximately four (4.0) feet below surface grade in the borings. A sample of it was collected and analyzed for volatile organic analysis (VOA) and semi-volatile organic analysis (SVOA).

Findings

The closure soil samples collected from the location associated with UST No. 81533-146, contained TPH concentrations below the NJDEP health based criterion of 10,000 milligrams per kilogram (mg/kg) for total organic contaminants (N.J.A.C. 7:26E and revisions dated February 3, 1994). Soil samples 906AC, 906AE and 906AW contained TPH concentrations of 5634 mg/kg, 6699 mg/kg and 195 mg/kg, respectively. Contingent VOA analysis was conducted on soil samples 906AC and 906AE in which there were no compounds detected above the NJDEP Residential Direct Contact Soil Cleanup Criteria.

Conclusions and Recommendations

Based on the closure soil sampling results, soils with TPH concentrations exceeding the NJDEP health based criterion of 10,000 mg/kg for total organic contaminants are not present in the location of the UST. A groundwater sample, analyzed for volatile organic analysis and semi-volatile organic analysis, did contain several compounds above the analytical method detection limits. However, all detected compounds were below the NJDEP Class II Groundwater Quality Criteria.

No Further Action is proposed in regard to the closure and site assessment of UST No. 81533-146 at Building 906A.

1.0 UNDERGROUND STORAGE TANK CLOSURE SOIL SAMPLING ACTIVITIES

1.1 OVERVIEW

One underground storage tank (UST), New Jersey Department of Environmental Protection (NJDEP) Registration No. 81533-146, was closed at Building 906A located on the Main Post at the U.S. Army Garrison, Fort Monmouth, New Jersey. Refer to site location map on Figure 1. This report presents the results of soil and groundwater sampling analysis to confirm that the tank did not leak. The UST was a 1,000-gallon, single-wall steel tank containing No. 2 heating oil. The UST was installed in 1954 and the removal was done on June 26, 1990. Archived documents including Removal Procedures, Site Assessment Compliance Statement, NJDEP Standard Reporting Form along with the NJDEP UST Site Investigation Report Form are included in Appendix A.

This UST Closure Report has been prepared by TVS to assist the U.S. Army Garrison DPW in complying with the NJDEP - Underground Storage Tanks regulations. The applicable NJDEP regulations at the date of closure were the *Closure of Underground Storage Tank Systems* (N.J.A.C. 7:14B-9 et seq. December, 1987 and revisions dated April 20, 2003).

This report was prepared using information required by the *Technical Requirements for Site Remediation* (N.J.A.C. 7:26E) (*Technical Requirements*). Section 1 of this UST Closure Report provides a summary of the UST site. Section 2 of this report describes the site investigation activities. Conclusions and recommendations, including the results of the soil sampling investigation, are presented in Section 3 of this report.

1.2 SITE DESCRIPTION

Building 906A, Courier Ave., is located in the central portion (900 Area) of the Main Post of Fort Monmouth, as shown on Figure 1. A historical map, Figure 2, was used to determine the location of the UST at Building 906A. UST No. 81533-146 was located on the southwest side of Building 906A.

1.2.1 Geological/Hydrogeological Setting

The following is a description of the geological/hydrogeological setting of the 900 Area. 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, sand and gravel. These formations typically strike northeast-southwest with a dip ranging from 10 to 60 feet per mile and were deposited on Precambrian and lower Paleozoic rocks (Zapeczka, 1989). These sediments, predominantly derived from deltaic, shallow marine, and continental shelf environments, date from Cretaceous through the Quaternary Periods. The mineralogy ranges from quartz to glauconite.

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

Local Geology

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

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

Hydrogeology

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

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

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

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 (e.g., streams, lakes)

Due to the fluvial nature of the overburden deposits (e.g., 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 906A is located approximately 400 feet south of Husky Brook, the nearest water body, which flows into Oceanport Creek and then into the Shrewsbury River. Based on the Main Post topography, the groundwater flow in the area of Building 906A is anticipated to be to the north.

1.3 HEALTH AND SAFETY

Work site health and safety hazards were minimized during all site investigation activities. All areas which posed a vapor hazard were monitored by a qualified individual utilizing a calibrated photo-ionizer detector : Thermo Instruments Organic Vapor Monitor (OVM) – Model #580-B. The individual ascertained if the area was properly vented to render the area safe, as defined by OSHA. All work areas were properly vented to insure that there were no contaminants present in the breathing zone above permissible exposure limits (PEL's).

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 Fort Monmouth Environmental Testing Laboratory, a NJDEP-certified testing laboratory. All sampling was performed by 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 *Technical Requirements for Site Remediation*, 7:26E-3.9 (December 17, 2002 and revisions dated February 3, 2003) which was the applicable regulation at the date of the investigation. All records of the Site Investigation activities are maintained by the Fort Monmouth DPW Environmental Office.

The following Parties participated in Closure and Site Assessment Activities.

- Ft. Monmouth Directorate of Public Works-Environmental Division
Contact Person: Joseph Fallon
Phone Number: (732) 532-6223
- Subsurface Evaluator: Frank Accorsi
Employer: TECOM-Vinnell Services, Inc. (TVS)
Phone Number: (732) 532-5241
NJDEP License No.: 0010042
TVS - NJDEP License No.: US252302
- Analytical Laboratory: Fort Monmouth Environmental Testing Laboratory
Contact Person: Jacqueline Hamer
Phone Number: (732) 532-4359
NJDEP Laboratory Certification No.: 13461

2.2 FIELD SCREENING/MONITORING

Field screening of the soils was performed by a NJDEP certified Subsurface Evaluator using an OVM and visual observations to identify potentially contaminated material of which none were found.

2.3 SOIL SAMPLING

On January 4, 2006, closure soil samples 906AC (shallow), 906AC (deep), 906AE and 906AW were collected from a total of three (3) locations along the tank centerline bottom of the UST. Groundwater was encountered at approximately four (4.0) feet below surface grade in the borings. All soil samples were analyzed for TPH. A soil sample location map is provided on Figure 3.

The site assessment was performed by TVS personnel in accordance with the NJDEP *Technical Requirements for Site Remediation* and the NJDEP *Field Sampling Procedures Manual*. A summary of sampling activities including parameters analyzed is provided on Table 1. The soil samples were collected into laboratory prepared glassware using properly decontaminated stainless steel trowels. After collection, the samples were immediately placed on ice in a cooler and delivered to Fort Monmouth Environmental Testing Laboratory for analysis.

2.4 GROUNDWATER SAMPLING

On January 4, 2006, groundwater sample 906AC-GW was collected from soil borehole 906AC to assess the groundwater quality in the location of the tank. A temporary PVC piezometer was installed in the borehole for sample collection. The sample was collected into laboratory prepared glassware using a disposable teflon bailer. The sample was analyzed for volatile organic analysis (VOA) and semi-volatile organic analysis (SVOA).

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 SOIL SAMPLING RESULTS

Closure soil samples were collected from a total of three locations on January 4, 2006 to evaluate soil conditions in the location of the UST. All samples were analyzed for TPH. The closure soil sample results were compared to the NJDEP health based criterion of 10,000 mg/kg for total organic contaminants (N.J.A.C. 7:26D and revisions dated February 3, 1994). A summary of the analytical results and comparison to the NJDEP soil cleanup criteria is provided on Table 2. The analytical data package, including associated quality control data, is provided in Appendix B.

Closure soil samples collected on January 4, 2006 from UST 81533-146 contained no concentrations of TPH above the NJDEP health based criterion of 10,000 mg/kg total organic contaminants. Soil samples 906AC, 906AE and 906AW contained TPH concentrations of 5634 mg/kg, 6699 mg/kg and 195 mg/kg, respectively. Contingent VOA analysis was conducted on soil samples 906AC and 906AE. The only compounds detected above the method detection limits were in sample 906AE. Detected were ethylbenzene at 0.6 mg/kg and total xylenes at 0.8 mg/kg, which are below the NJDEP Residential Direct Contact Soil Cleanup Criteria of 1,000 mg/kg and 410 mg/kg, respectively.

3.2 GROUNDWATER SAMPLING RESULTS

One groundwater sample was collected via temporary PVC piezometer installed in soil borehole 906AC. There were two compounds detected above the method detection limits for the volatile organic analysis. Detected were ethylbenzene at 4.7 ug/L and total xylenes at 3.2 ug/L which are below the NJDEP Class II Groundwater Quality Criteria of 700 ug/L and No Limit Established, respectively. There were five compounds detected above the method detection limits for the semi-volatile organic analysis. Naphthalene was detected at 95.1 ug/L, which is below the regulatory level of No Limit Established. 2-Methyl-naphthalene was detected at 169.4 ug/L, which is below the regulatory level of No Limit Established. Phenanthrene was detected at 189.2 ug/L, which is below the regulatory level of No Limit Established. Pyrene was detected at 77.9 ug/L, which is below the regulatory level of 200 ug/L. Bis(2-Ethylhexyl)phthalate, a common laboratory contaminant, was detected at 13.8 ug/L which is below the regulatory level of 30 ug/L.

3.3 CONCLUSIONS AND RECOMMENDATIONS

The analytical results for all soil and groundwater samples collected from the UST closure assessment at UST No. 81533-146 were below the regulatory limits.

Based on the closure soil sampling results, soils with TPH concentrations exceeding the NJDEP health based criterion for total organic contaminants of 10,000 mg/kg are not present at the location of UST No. 81533-146.

No Further Action is proposed in regard to the closure and site assessment of UST No. 81533-146 at Building 906A.

FIGURES

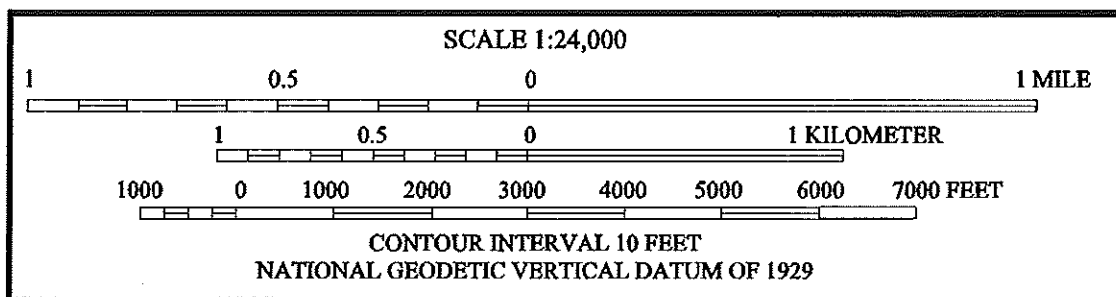
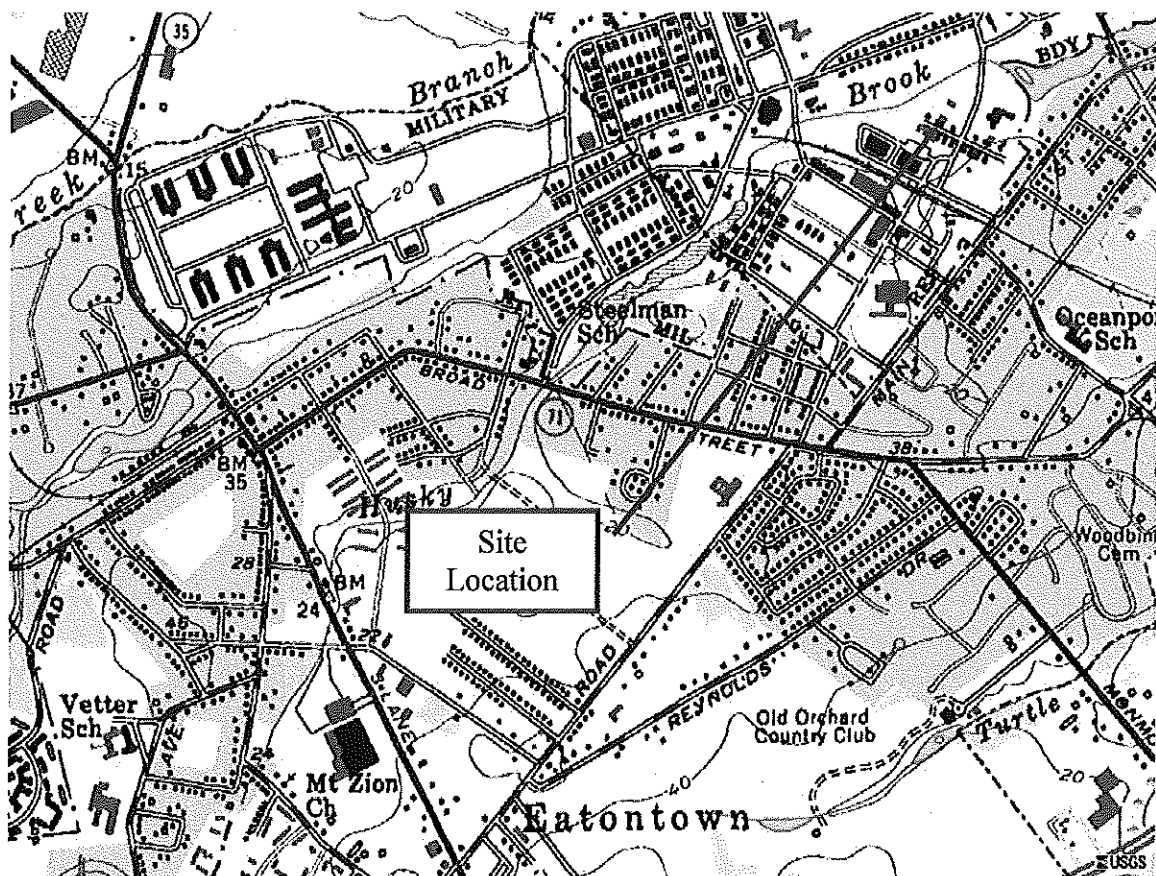
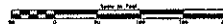
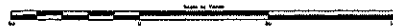
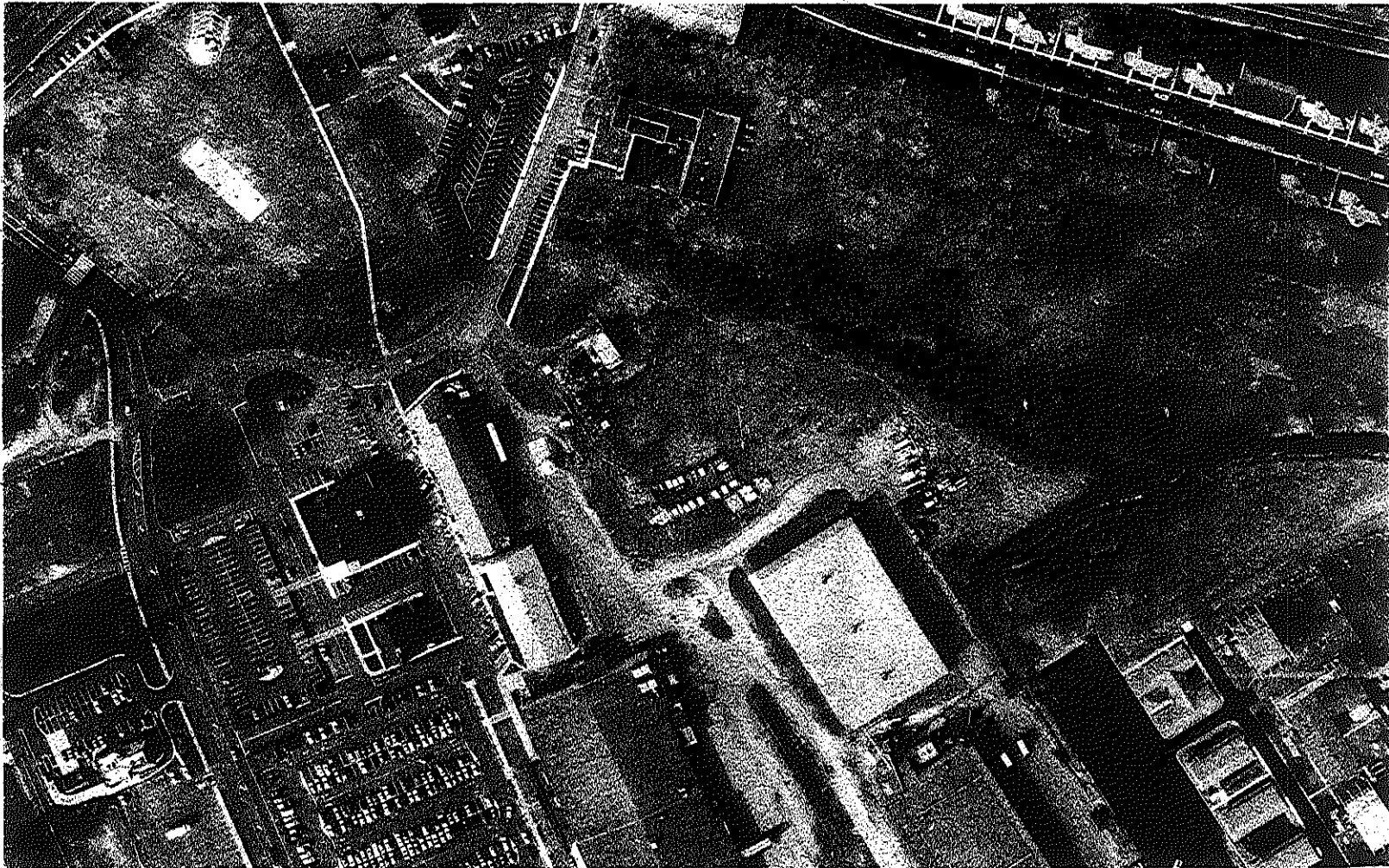


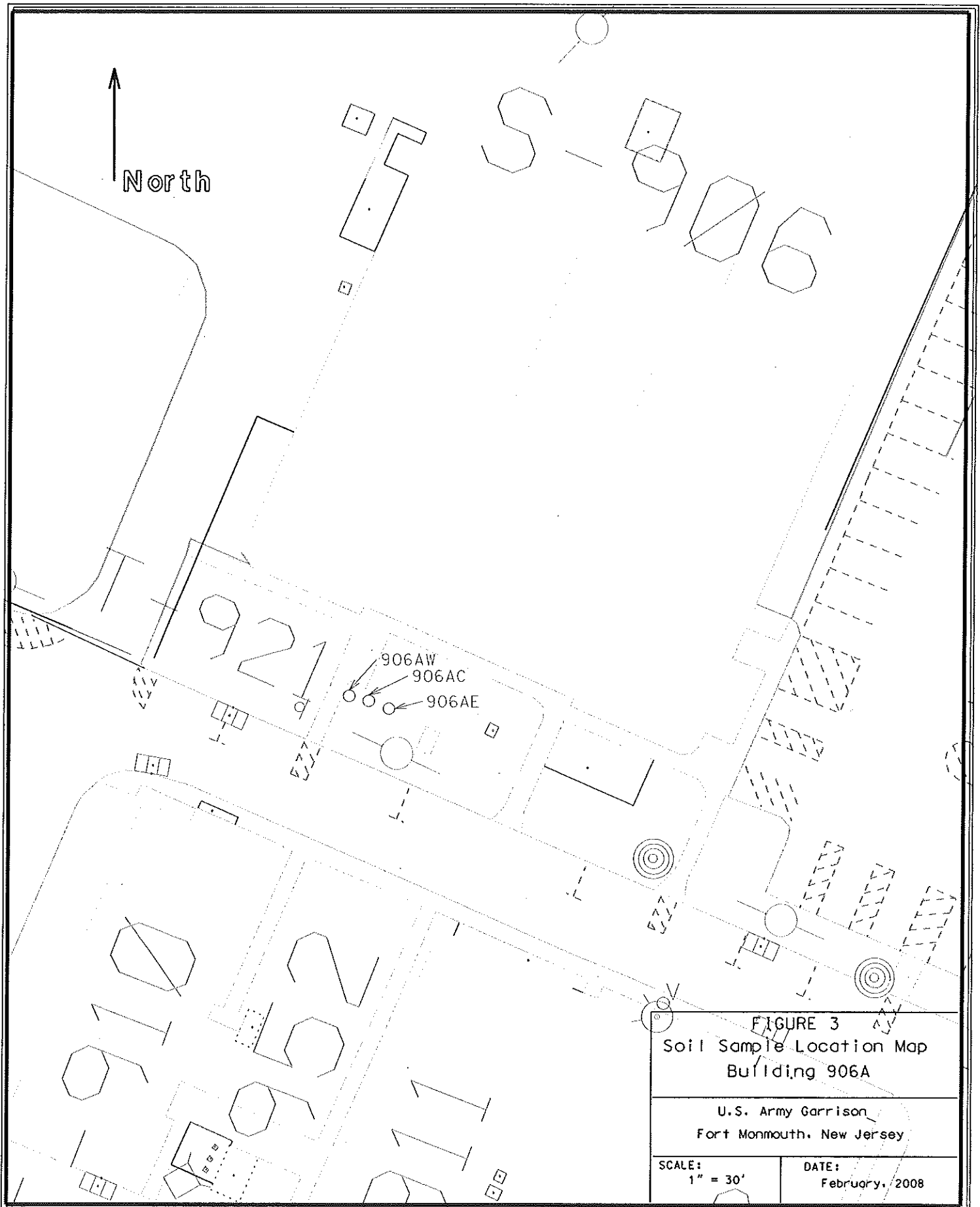
FIGURE 1

SITE LOCATION MAP
BUILDING 906
UST NO. 81533-146
FT. MONMOUTH, NJ

SOURCE: USGS 7½-MINUTE SERIES (TOPOGRAPHIC)
 LONG BRANCH QUADRANGLE, NEW JERSEY, 1981.



DIRECTORATE OF ENGINEERING & HOUSING			
Fort Monmouth, New Jersey			
"AN ARMY COMMUNITY OF EXCELLENCE"			
Photo Date 12/20/91	1" = 50'	PHOTO MAP	
Flying Height 3000'		Fort Monmouth Area	
Focal Length 8"		(MAIN POST)	
UPR 000153-146	Scale 1" = 50'	Sheet 17 of 35	
Drawing No. 222, 806			
RT DET COPY			
Do not Duplicate			



TABLES

TABLE 1

SUMMARY OF LABORATORY ANALYSIS

FT. MONMOUTH, BUILDING 906A, UST No. 81533-146
4 January 2006

SAMPLE ID	LABORATORY SAMPLE ID	SAMPLE DATE	SAMPLE MATRIX	ANALYTICAL PARAMETER	ANALYTICAL METHOD
906AC	6000701	4-Jan-06	SOIL	TPH	OQA-QAM-25
906AC	6000702	4-Jan-06	SOIL	TPH	OQA-QAM-25
906AE	6000704	4-Jan-06	SOIL	TPH	OQA-QAM-25
906AW	6000703	4-Jan-06	SOIL	TPH	OQA-QAM-25
906AC-Groundwater	6000705	4-Jan-06	AQUEOUS	VOA, SVOA	SW-846, EPA 625
Trip Blank	6004806	4-Jan-06	AQUEOUS	VOA	SW-846
Trip Blank	6004807	4-Jan-06	METHANOL	VOA	SW-846

ABBREVIATIONS:

TPH = Total Petroleum Hydrocarbons, Method NJDEP OQA-QAM-25

VOA = Volatile Organic Analysis, EPA SW-846 Method 8260

SVOA = Semi-Volatile Organic Analysis in Water, EPA Method 625

TABLE 2

SUMMARY OF LABORATORY ANALYTICAL RESULTS-SOIL

FT. MONMOUTH, BUILDING 906A, UST No. 81533-146
4 January 2006

TOTAL PETROLEUM HYDROCARBONS

SAMPLE ID	LABORATORY SAMPLE ID	SAMPLE LOCATION	SAMPLE DEPTH (in feet)	MATRIX	TPH RESULTS mg/kg
906AC	6000701	CENTER UST	3.5 – 4.0	Soil	693
906AC	6000702	CENTER UST	6.0 – 6.5	Soil	5635*
906AE	6000704	EAST END UST	3.5 – 4.0	Soil	6699*
906AW	6000705	WEST END UST	6.0 – 6.5	Soil	195

ABBREVIATIONS:

mg/kg = milligrams per kilogram = parts per million

ND = Compound Not Detected

NA = Compound Not Analyzed

*= Further Analyzed for Volatile Organic Compounds

Notes:

Gray shading indicates exceedance of NJDEP

health based criterion of 10,000 ppm total organic contaminants

TABLE 3

SUMMARY OF LABORATORY ANALYTICAL RESULTS-SOIL

FT. MONMOUTH, BUILDING 906A, UST No. 81533-146
4 January 2006

VOLATILE ORGANIC COMPOUNDS

SAMPLE ID	LAB SAMPLE ID	Benzene	Toluene	Ethylbenzene	Xylenes (total)
UNITS		mg/kg	mg/kg	mg/kg	mg/kg
906AC	6000702	ND	ND	ND	ND
906AE	6000703	ND	ND	0.6	0.8
Trip Blank		ND	ND	ND	ND
NJDEP Criteria	Residential	1	1,000	1,000	410

ABBREVIATIONS:

mg/kg = milligrams per kilogram = parts per million (ppm)

ND = Compound Not Detected

NA = Compound Not Analyzed

Notes:

Gray shading indicates exceedance of NJDEP

Residential Direct Contact Soil Cleanup Criteria

TABLE 4

SUMMARY OF LABORATORY ANALYTICAL RESULTS- GROUNDWATER

FT. MONMOUTH, BUILDING 906A, UST No. 81533-146

4 January 2006

VOLATILE ORGANIC COMPOUNDS

SAMPLE ID	LAB SAMPLE ID	Benzene	Ethyl- benzene	Toluene	Total Xylenes
	UNITS	ug/L	ug/L	ug/L	ug/L
906AC- Groundwater	6000705	ND	4.7	ND	3.2
Trip Blank		ND	ND	ND	ND
NJDEP Criteria	Ground Water Quality Crireria	1	700	1000	NLE

SEMI-VOLATILE ORGANIC COMPOUNDS

SAMPLE ID	LAB SAMPLE ID	Naphtha- lene	2-Methyl- naphthalene	Phenan- threne	Pyrene	Bis(2Ethylhexyl) phthalate
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
906AC- Groundwater	6000705	95.1	169.4	189.2	77.9	3.2
NJDEP Criteria	Ground Water Quality Crireria	NLE	NLE	NLE	200	30

ABBREVIATIONS:

ug/L = Micrograms Per Liter = parts per billion

ND = Compound Not Detected

NA = Compound Not Analyzed

NLE= No Limit Established

Notes:

Gray shading indicates exceedance of NJDEP

Class II Ground Water Quality Criteria

APPENDIX A

CERTIFICATIONS



Bldg 906

For State Use Only

Date Rec'd. _____

Auth _____

Routing _____

UST NO. _____

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
CH 020
TRENTON, NEW JERSEY 08625
ATTN: BUST Program
(609) 984-3156

STANDARD REPORTING FORM

for the:

Installation/Abandon/Remove/Sale-Transfer/Substantial Modification

Circle Only One — Use One Form Per Activity

(More than one tank can be listed per tank activity)

Answer questions 1 through 5 and others as applicable:

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

U.S. Army

DEH Bldg. #167

Attn: SELFM-EH

Fort Monmouth, NJ 07703

2. Facility name and location:
(if different from above)

U.S. Army Fort Monmouth
Main Post West

3. Contact person for this activity:

Mr. Joseph M. Fallon

Telephone Number: (908) 532-6223

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

Questionnaire: Tank No. 58, 88, 95, 104, 110, 113, 146, 148, 158, + 163
Bldgs. 283A, 614, 622, 676, 692, 701A, 906, 910, 1004, 1103

5. Registration Number (if known): UST -

0081533

(OVER)

6. For TRANSFER OF OWNERSHIP:

New Company Name _____

New Facility Name _____

Address _____

New owner/operator (print) _____

Signature _____

7. For ABANDONMENT or REMOVAL

a. Describe the proposed procedure in detail on an attached sheet.

b. Specify the product last stored in the tank: #2 Heating Oil

c. Date abandoned or removed: May and June of 1990

d. Is Site Assessment Compliance Statement being completed? (YES or NO) Form MUST be completed and returned within 90 days of tank closure. (per 40 CFR 280.72)

8. For SUBSTANTIAL MODIFICATIONS:

a. Describe the reason for the modification and, in detail, the proposed procedure to be used on an attached sheet.

b. Specify the product presently stored in the tank: _____

c. Specify the product to be stored in the tank: _____

9. For NEW OR REPLACEMENT INSTALLATIONS:

a. Attach the specifications as required by the attached instructions.

b. Specify the product(s) to be stored in the tank: _____

NOTE: All appropriate and applicable permits, licenses and certificates from any local, state and/or federal agency must be obtained separately from this notification as required by the above stated activity. CERTIFICATION

*** This registration form shall be signed by the highest ranking individual at the facility with overall responsibility for that facility. (7:14B-2.3 (a) 1). ***

"I certify under penalty of law that the information provided in this document is true, accurate and complete. I am aware that there are significant civil and criminal penalties for submitting false, inaccurate or incomplete information, including fines and/or imprisonment."

Signature: James Ott

Name (print or type): JAMES OTT

Title: Acting Director

Date: 22 NOV 1991



STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Underground Storage Tanks
CN-029, Trenton, NJ 08625

Date Rec'd _____
Auth _____
Routing _____
UST NO. _____

SITE ASSESSMENT COMPLIANCE STATEMENT

Supplement to the New Jersey Standard Reporting Form
(Complete for ALB regulated UST abandonments or removals)

Within ninety (90) days of completing the UST closure of any State or Federally-regulated tank, the owner or operator must submit this completed form to the NJDEP Bureau of Underground Storage Tanks. If the facility is located in one of the counties listed on the back, a copy of this form must also be sent to the Health Agency indicated.

The owner or operator of any Federally-regulated tank must also comply with the following:

40 CFR Part 280.72 Assessing the site at closure or change-in-service

"(a) Before permanent closure or a change-in-service is completed, owners and operators must measure for the presence of a release where contamination is most likely to be present at the UST site. In selecting sample types, sample locations, and measurement methods, owners and operators must consider the method of closure, the nature of the stored substance, the type of backfill, the depth to ground water, and other factors appropriate for identifying the presence of a release."

FACILITY U.S. Army Fort Monmouth UST # 0081533 Tank No. _____

Check off the following items as appropriate for the site.

58, 88, 95.

☒ The UST facility is only regulated by State law, therefore a site assessment is not mandatory. 104, 110, 113,

(146), 148, 158,
163.

☐ The UST facility is regulated by Federal law and a site assessment was conducted.

The results of the site assessment indicate:

☒ There was NO release from the UST system.

☐ There was a release from the UST system and it was reported to the DEP Environmental Hotline (609-292-7172).

NOTE: The results of the site assessment are not to be submitted to the DEP or Health Agency unless requested to do so. The results are to be available for inspection at the UST facility.

Questions can be directed to the Bureau at (609) 984-3156.

*** This registration form shall be signed by the highest ranking individual at the facility with overall responsibility for that facility (7:14B-2.3 (a) 1). ***

"I certify under penalty of law that the information provided in this document is true, accurate and complete. I am aware that there are significant civil and criminal penalties for submitting false, inaccurate or incomplete information, including fines and/or imprisonment.

SACS-2,1/89

James Ott
Signature
JAMES OTT
Acting Director
31v, Engineering and Housing

22 NOV 1991
Date

(Title)



DEPARTMENT OF THE ARMY
Headquarters, U.S. Army Garrison Fort Monmouth
Fort Monmouth, New Jersey 07703-5000



REPLY TO
ATTENTION OF

Directorate of Engineering
and Housing

22 NOV 1991

SUBJECT: Removal Procedure:

U.S. Army Fort Monmouth
Main Post West
Site Registration #0081533
Tank #58, 88, 95, 104, 110, 113, 146, 148, 158, 163
POC: Joseph M. Fallon (908) 532-6223

The remaining product inside each tank was removed for disposal by Lionetti Oil Recovery Co., Inc. Lionetti is a licensed hazardous waste transporter and treatment, storage, and disposal facility (USEPA ID #NJ084044064).

The top of each tank was excavated and cut open across the entire length of the tank. In addition, the inside of each tank was hand cleaned and thoroughly wiped down. The soil from the top of each excavation was visually inspected and analyzed using a HNU Model PI-101 photoionizer. No contamination was detected.

After each tank was cleaned, a visual inspection was made inside the tanks for signs of leakage. No corrosion was found inside the tanks.

Each tank was then removed from the ground and disposed of through a metal recycler. No contamination was discovered at the sites upon removing the tanks.

Each site was then backfilled with the excavated soil to close out the project.

APPENDIX B

SOIL AND GROUNDWATER ANALYTICAL DATA PACKAGE

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS

PHONE: (732) 532-4359 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: BLDG. 906A

Bldg. 906A

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
906A C 3.5-4.0'	6000701	Soil	04-Jan-06 13:44	01/04/06
906A C 6.0-6.5'	6000702	Soil	04-Jan-06 13:54'	01/04/06
906A E 3.5-4.0'	6000703	Soil	04-Jan-06 14:18	01/04/06
906A W 6.0-6.5'	6000704	Soil	04-Jan-06 14:35	01/04/06
906A C	6000705	Aqueous	04-Jan-06 15:02	01/04/06

ANALYSIS:

FORT MONMOUTH ENVIRONMENTAL LAB
VOA+15, BN+15, TPHC, % SOLIDS

ENCLOSURE:
CHAIN OF CUSTODY
RESULTS

(QC and raw data not included for brevity)


1-27-06
Daniel Wright
Laboratory Director

The enclosed report relates only to the items tested. The report may not be reproduced, except in full, without written approval of the U.S. Army Fort Monmouth Directorate of Public Works.

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CHAIN OF CUSTODY

000001



Fort Monmouth Environmental Testing Laboratory

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

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

NJDEP Certification #13461

Chain of Custody Record

[illegible]

SAMPLE RECEIPT FORM

Date Received: 1-4-06 Work Order ID#: 60007
Site/Proj. Name: Bldg / 906A UST Cooler Temp (°C): 3.0°
Received By: J. Decker Sign: [Signature]
(Print name)

Check the appropriate box

1. Did the samples come in a cooler? ☒ yes ☐ no ☐ n/a
2. Were samples rec'd in good condition? ☒ yes ☐ no
3. Was the chain of custody filled out correctly and legibly? ☒ yes ☐ no
4. Was the chain of custody signed in the appropriate place? ☒ yes ☐ no
5. Did the labels agree with the chain of custody? ☒ yes ☐ no
6. Were the correct containers/preservatives used? ☒ yes ☐ no
7. Was a sufficient amount of sample supplied? ☒ yes ☐ no
8. Were air bubbles present in VOA vials? ☐ yes ☒ no ☐ n/a
9. Were samples received on ice? ☒ yes ☐ no
10. Were analyze-immediately tests perform within 15 minutes ☐ yes ☐ no ☒ n/a

Fill out the following table for each sample bottle

Lims ID	pH	Preservative	Sample ID	pH	Preservative

Comments: _____

Change of Chain of Custody

Lab Project ID#: 60007
Date Received: 11/4/06
Requested by: (print) Samuel
Turnaround Time: 502

Site/Project Name: Bldg 906A
Date of Change: 1/10/06
Sign: [Signature]

1. Were the correct containers and/or preservatives used for the tests indicated?
2. Was sufficient amount of sample sent for the tests indicated?
3. Are samples within holding time for new analysis?
4. Was the change documented in the receipt logbook?

Yes	No
Yes	No
Yes	No
Yes	No

Received by: (print) _____ Sign: _____

[illegible]

Comments: _____

00004

Former UST 906A Sample Location GPS Positions

US State Plane 1983 New Jersey (NY East) 2900

NAD 1983 (Conus)

Geoid 96 (Conus)

(In US Survey Feet)

Position	Northing (Y Coord.)	Easting (X Coord.)
906A E	539090.168	621094.799
906A C	539088.953	621099.520
906A W	539087.046	621104.447

METHOD SUMMARY

Methodology Summary

EPA Method 624

Gas Chromatographic Determination of Volatiles in Water

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

EPA SW-846 Method 8260

Gas Chromatographic Determination of Volatiles in Methanol

A 10-gram volume of soil is combined with 25-ml of Methanol and surrogates in the field. 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.

EPA Method 625

Gas Chromatographic Determination of Semi-volatiles in Water

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

NJDEP Method OQA-QAM-025 10/97

Gas Chromatographic Determination of Total Petroleum Hydrocarbons in Soil

Fifteen grams (15g) of soil is added to a 125-ml acid cleaned and solvent rinsed capped Erlenmeyer flask. 15g anhydrous Sodium Sulfate is added to dry the sample. Surrogate standard spiking solution is then added to the flask.

Twenty-five ml of Methylene Chloride is added to the flask and it is secured on an orbital shaker table. The agitation rate is set to 400 rpm and the sample is shaken for 30 minutes. The flask is removed from the table and the particulate matter is allowed to settle. The extract is transferred to a Teflon capped vial. A second 25-ml of Methylene Chloride is added to the flask and shaken for an additional 30 minutes. The flask is again removed and allowed to settle. The extracts are combined in the vial then transferred to a 1-ml auto-sampler vial.

The extract is then injected directly into a GC-FID for analysis. The sample is analyzed for Petroleum Hydrocarbons covering a range of C8-C42, including Pristane and Phytane. Total Petroleum Hydrocarbon concentration is determined by integrating between 5 minutes and 22 minutes. The baseline is established by starting the integration after the end of the solvent peak and stopping after the last peak. The final concentration of Total Petroleum Hydrocarbons is calculated using percent moisture, sample weight and concentration.

LABORATORY CHRONICLE

000009

Laboratory Chronicle

Lab ID: 60007

Site: UST
Bldg. 906A

	Date	Hold Time
Date Sampled	01/04/06	NA
Receipt/Refrigeration	01/04/06	NA
Extractions		
1. BN	01/09/06	7 days
2. TPHC	01/06/06	14 days
Analyses		
1. VOA	01/11,17/06	14 days
2. BN	01/17/06	40 days
3. TPHC	01/07/06	40 days

000010

**CONFORMANCE/
NON-
CONFORMANCE
SUMMARY**

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 yes
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 NO

If not met, list those compounds and their recoveries, which fall outside the acceptable range:

 - a. VOA Fraction _____
 - b. B/N Fraction All low in dilution
 - c. Acid Fraction _____

If not met, were the calculations checked and the results qualified as "estimated"?

yes
9. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria NO

(If not met, list those compounds and their recoveries, which fall outside the acceptable range)

 - a. VOA Fraction Naphthalene ms+msd low
 - b. B/N Fraction Benzidine msd low RPD high
 - c. Acid Fraction _____

Various out on Soil VOA see form

000012

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

Indicate
Yes, No, N/A

10. Internal Standard Area/Retention Time Shift Meet Criteria
(If not met, list those compounds, which fall outside the acceptable range)

yes

- a. VOA Fraction _____
b. B/N Fraction _____
c. Acid Fraction _____

11. Extraction Holding Time Met

yes

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

12. Analysis Holding Time Met

yes

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

Additional Comments:

Laboratory Manager: _____

Date: 1-27-06

000013

TPHC CONFORMANCE/NON-CONFORMANCE SUMMARY REPORT

Indicate
Yes, No, N/A

- | | | |
|----|---|------------|
| 1. | Method Detection Limits Provided | <u>yes</u> |
| 2. | Method Blank Contamination – If yes, list the sample and the corresponding concentrations in each blank

_____ | <u>no</u> |
| 3. | Matrix Spike Results Summary Meet Criteria
(If not met, list the sample and corresponding recovery which falls outside the acceptable range)

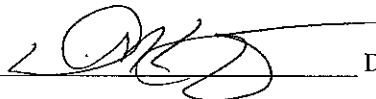
_____ | <u>yes</u> |
| 4. | Duplicate Results Summary Meet Criteria

_____ | <u>yes</u> |
| 5. | IR Spectra submitted for standards, blanks and samples | <u>N/A</u> |
| 6. | Chromatograms submitted for standards, blanks and samples if GC fingerprinting was conducted | <u>yes</u> |
| 7. | Analysis holding time met
(If not met, list number of days exceeded for each sample)

_____ | <u>yes</u> |

Additional comments: _____

Laboratory Manager:



Date: 1-27-06

000014

**VOLATILE
ORGANICS
(AQUEOUS)**

**US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP CERTIFICATION # 13461**

Definition of Qualifiers

- U:** The compound was analyzed for but not detected.
- B:** Indicates that the compound was found in the associated method blank as well as in the sample.
- J:** Indicates an estimated value. This flag is used:
- (1) When the mass spec and retention time data indicate the presence of a compound however the result is less than the MDL but greater than zero.
 - (2) When estimating the concentration of a tentatively identified compound (TIC), where a 1:1 response is assumed.
- D:** This flag is used to identify all compounds (target or TIC) that required a dilution.
- E:** Indicates the compound's concentration exceeds the calibration range of the instrument for that specific analysis.
- N:** This flag is only used for TICs. It indicates the presumptive evidence of a compound. For a generic characterization of a TIC, such as unknown hydrocarbon, the flag is not used.

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

Data File VB021318.D
 Operator Skelton
 Date Acquired 11 Jan 2006 8:48 pm

Sample Name MB 11Jan2006
 Field ID MB 11Jan2006
 Sample Multiplier 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	2.01 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	5	1.23 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	5.70 ug/L	10.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.21 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.26 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.20 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	nle	0.24 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.23 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.26 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.29 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.23 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.19 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	6000	0.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.24 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.21 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.24 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	50	0.24 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.26 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.20 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	70	0.22 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.20 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.24 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.24 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.23 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.26 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.24 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.22 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.23 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.22 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.35 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.26 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.25 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.28 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.20 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.43 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	1	0.22 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	50	0.28 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.27 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.43 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.21 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.21 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.27 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.45 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.36 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.35 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.45 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Interim Criteria as per N.J.A.C. 7:9C 07Nov2005

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
 R.L. = Reporting Limit

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

MB 11Jan2006

Lab Name: FMETL NJDEP#: 13461
Project: 0634880 Case No.: 60007 Location: 906A SDG No.: UST
Matrix: (soil/water) WATER Lab Sample ID: MB 11Jan2006
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB021318.D
Level: (low/med) LOW Date Received: 1/4/2006
% Moisture: not dec. _____ Date Analyzed: 1/11/2006
GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000079-20-9	Acetic acid, methyl ester	12.47	4	JN

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

Data File VB021320.D
 Operator Skelton
 Date Acquired 11 Jan 2006 10:10 pm

Sample Name 6000606
 Field ID Trip Blank
 Sample Multiplier 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	2.01 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	5	1.23 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	5.70 ug/L	10.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.21 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.26 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.20 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	nla	0.24 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.23 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.26 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nla	0.29 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.23 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.19 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	6000	0.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.24 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.21 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.24 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	50	0.24 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.26 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.20 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	70	0.22 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.20 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.24 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.24 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.23 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.26 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.24 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.22 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nla	0.23 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.22 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nla	0.35 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.26 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.25 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.28 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.20 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nla	0.43 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	1	0.22 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	50	0.28 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.27 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nla	0.43 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nla	0.21 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.21 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.27 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.45 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.36 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.35 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.45 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Interim Criteria as per N.J.A.C. 7:9C 07Nov2005

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
 R.L. = Reporting Limit

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

Trip Blank

Lab Name: FMETL NJDEP#: 13461

Project: 0634880 Case No.: 60006 Location: 637 SDG No.: UST

Matrix: (soil/water) WATER Lab Sample ID: 6000606

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB021320.D

Level: (low/med) LOW Date Received: 1/4/2006

% Moisture: not dec. Date Analyzed: 1/11/2006

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

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/LNumber TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000079-20-9	Acetic acid, methyl ester	12.47	4	JN

Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File VB021321.D
Operator Skelton
Date Acquired 11 Jan 2006 10:51 pm

Sample Name 6000705
Field ID 906AC
Sample Multiplier 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	2.01 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	5	1.23 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	5.70 ug/L	10.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.21 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.26 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.20 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	nle	0.24 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.23 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.26 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.29 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.23 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.19 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	6000	0.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.24 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.21 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.24 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	50	0.24 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.26 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.20 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	70	0.22 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.20 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.24 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.24 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.23 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.26 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.24 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.22 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.23 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.22 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.35 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.26 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.25 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.28 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.20 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.43 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	1	0.22 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	50	0.28 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene	25.72	865653	4.71 ug/L	700	0.27 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes	26.01	70702	1.05 ug/L	nle	0.43 ug/L	4.00 ug/L	
95-47-6	o-Xylene	26.84	299933	2.16 ug/L	nle	0.21 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.21 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.27 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.45 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.36 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.35 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.45 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Interim Criteria as per N.J.A.C. 7:9C 07Nov2005

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
R.L. = Reporting Limit

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

906AC

Lab Name: FMETL NJDEP#: 13461

Project: 0634880 Case No.: 60006 Location: 637 SDG No.: UST

Matrix: (soil/water) WATER Lab Sample ID: 6000705

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB021321.D

Level: (low/med) LOW Date Received: 1/4/2006

% Moisture: not dec. Date Analyzed: 1/11/2006

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

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/LNumber TICs found: 10

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000526-73-8	Benzene, 1,2,3-trimethyl-	29.36	39	JN
2. 000496-11-7	Indane	30.51	77	JN
3. 000933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	31.14	15	JN
4. 000527-84-4	Benzene, 1-methyl-2-(1-methylet	31.32	25	JN
5. 000767-58-8	Indan, 1-methyl-	31.59	29	JN
6. 000095-93-2	Benzene, 1,2,4,5-tetramethyl-	32.12	13	JN
7. 000095-93-2	Benzene, 1,2,4,5-tetramethyl-	32.23	23	JN
8. 000824-22-6	1H-Indene, 2,3-dihydro-4-methyl-	32.69	20	JN
9. 002039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	33.09	67	JN
10. 000119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	33.42	19	JN

VOLATILE ORGANICS (SOIL)

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

MB 17Jan2006

Lab Name: FMETL NJDEP#: 13461

Project: 0634880 Case No.: 60007 Location: 906A SDG No.: UST

Matrix: (soil/water) SOIL Lab Sample ID: MB 17Jan2006

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB021392.D

Level: (low/med) MED Date Received: 1/4/2006

% Moisture: not dec. 0 Date Analyzed: 1/17/2006

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

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 125 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein		1000	U
107131	Acrylonitrile		1000	U
75650	tert-Butyl alcohol		1000	U
1634044	Methyl-tert-Butyl ether		100	U
108203	Di-isopropyl ether		100	U
75718	Dichlorodifluoromethane		100	U
74-87-3	Chloromethane		100	U
75-01-4	Vinyl Chloride		100	U
74-83-9	Bromomethane		100	U
75-00-3	Chloroethane		100	U
75-69-4	Trichlorofluoromethane		100	U
75-35-4	1,1-Dichloroethene		100	U
67-64-1	Acetone		100	U
75-15-0	Carbon Disulfide		100	U
75-09-2	Methylene Chloride		100	U
156-60-5	trans-1,2-Dichloroethene		100	U
75-34-3	1,1-Dichloroethane		100	U
108-05-4	Vinyl Acetate		100	U
78-93-3	2-Butanone		100	U
156-59-2	cis-1,2-Dichloroethene		100	U
67-66-3	Chloroform		100	U
71-55-6	1,1,1-Trichloroethane		100	U
56-23-5	Carbon Tetrachloride		100	U
71-43-2	Benzene		100	U
107-06-2	1,2-Dichloroethane		100	U
79-01-6	Trichloroethene		100	U
78-87-5	1,2-Dichloropropane		100	U
75-27-4	Bromodichloromethane		100	U
110-75-8	2-Chloroethyl vinyl ether		100	U
10061-01-5	cis-1,3-Dichloropropene		100	U
108-10-1	4-Methyl-2-Pentanone		100	U
108-88-3	Toluene		100	U
10061-02-6	trans-1,3-Dichloropropene		100	U
79-00-5	1,1,2-Trichloroethane		100	U
127-18-4	Tetrachloroethene		100	U
591-78-6	2-Hexanone		100	U
124-48-1	Dibromochloromethane		100	U
108-90-7	Chlorobenzene		100	U
100-41-4	Ethylbenzene		100	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

MB 17Jan2006

Lab Name: FMETL NJDEP#: 13461

Project: 0634880 Case No.: 60007 Location: 906A SDG No.: UST

Matrix: (soil/water) SOIL Lab Sample ID: MB 17Jan2006

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB021392.D

Level: (low/med) MED Date Received: 1/4/2006

% Moisture: not dec. 0 Date Analyzed: 1/17/2006

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

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 125 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
1330-20-7	m+p-Xylenes		200	U
95-47-6	o-Xylene		100	U
100-42-5	Styrene		100	U
75-25-2	Bromoform		100	U
79-34-5	1,1,2,2-Tetrachloroethane		100	U
541-73-1	1,3-Dichlorobenzene		100	U
106-46-7	1,4-Dichlorobenzene		100	U
95-50-1	1,2-Dichlorobenzene		100	U
91-20-3	Naphthalene		100	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

MB 17Jan2006

Lab Name: FMETL NJDEP#: 13461
Project: 0634880 Case No.: 60007 Location: 906A SDG No.: UST
Matrix: (soil/water) SOIL Lab Sample ID: MB 17Jan2006
Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB021392.D
Level: (low/med) MED Date Received: 1/4/2006
% Moisture: not dec. 0 Date Analyzed: 1/17/2006
GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 125 (uL)

CONCENTRATION UNITS:

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

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

Trip Blank

Lab Name: FMETL NJDEP#: 13461

Project: 0634880 Case No.: 60007 Location: 906A SDG No.: UST

Matrix: (soil/water) SOIL Lab Sample ID: 6000606

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB021393.D

Level: (low/med) MED Date Received: 1/4/2006

% Moisture: not dec. 0 Date Analyzed: 1/17/2006

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

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 125 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein	1000	U	
107131	Acrylonitrile	1000	U	
75650	tert-Butyl alcohol	1000	U	
1634044	Methyl-tert-Butyl ether	100	U	
108203	Di-isopropyl ether	100	U	
75718	Dichlorodifluoromethane	100	U	
74-87-3	Chloromethane	100	U	
75-01-4	Vinyl Chloride	100	U	
74-83-9	Bromomethane	100	U	
75-00-3	Chloroethane	100	U	
75-69-4	Trichlorofluoromethane	100	U	
75-35-4	1,1-Dichloroethene	100	U	
67-64-1	Acetone	440		
75-15-0	Carbon Disulfide	100	U	
75-09-2	Methylene Chloride	100	U	
156-60-5	trans-1,2-Dichloroethene	100	U	
75-34-3	1,1-Dichloroethane	100	U	
108-05-4	Vinyl Acetate	100	U	
78-93-3	2-Butanone	100	U	
156-59-2	cis-1,2-Dichloroethene	100	U	
67-66-3	Chloroform	100	U	
71-55-6	1,1,1-Trichloroethane	100	U	
56-23-5	Carbon Tetrachloride	100	U	
71-43-2	Benzene	100	U	
107-06-2	1,2-Dichloroethane	100	U	
79-01-6	Trichloroethene	100	U	
78-87-5	1,2-Dichloropropane	100	U	
75-27-4	Bromodichloromethane	100	U	
110-75-8	2-Chloroethyl vinyl ether	100	U	
10061-01-5	cis-1,3-Dichloropropene	100	U	
108-10-1	4-Methyl-2-Pentanone	100	U	
108-88-3	Toluene	100	U	
10061-02-6	trans-1,3-Dichloropropene	100	U	
79-00-5	1,1,2-Trichloroethane	100	U	
127-18-4	Tetrachloroethene	100	U	
591-78-6	2-Hexanone	100	U	
124-48-1	Dibromochloromethane	100	U	
108-90-7	Chlorobenzene	100	U	
100-41-4	Ethylbenzene	100	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

Trip Blank

Lab Name: FMETL NJDEP#: 13461
 Project: 0634880 Case No.: 60007 Location: 906A SDG No.: UST
 Matrix: (soil/water) SOIL Lab Sample ID: 6000606
 Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB021393.D
 Level: (low/med) MED Date Received: 1/4/2006
 % Moisture: not dec. 0 Date Analyzed: 1/17/2006
 GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 125 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
1330-20-7	m+p-Xylenes		200	U
95-47-6	o-Xylene		100	U
100-42-5	Styrene		100	U
75-25-2	Bromoform		100	U
79-34-5	1,1,2,2-Tetrachloroethane		100	U
541-73-1	1,3-Dichlorobenzene		100	U
106-46-7	1,4-Dichlorobenzene		100	U
95-50-1	1,2-Dichlorobenzene		100	U
91-20-3	Naphthalene		100	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

Trip Blank

Lab Name: FMETL NJDEP#: 13461

Project: 0634880 Case No.: 60007 Location: 906A SDG No.: UST

Matrix: (soil/water) SOIL Lab Sample ID: 6000606

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB021393.D

Level: (low/med) MED Date Received: 1/4/2006

% Moisture: not dec. 0 Date Analyzed: 1/17/2006

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

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 125 (uL)

CONCENTRATION UNITS:

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

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000079-20-9	Acetic acid, methyl ester	12.50	330	JN
2. 001112-39-6	Silane, dimethoxydimethyl-	17.39	460	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

906AC

Lab Name: FMETL NJDEP#: 13461

Project: 0634880 Case No.: 60007 Location: 906A SDG No.: UST

Matrix: (soil/water) SOIL Lab Sample ID: 6000702

Sample wt/vol: 10.5 (g/ml) G Lab File ID: VB021394.D

Level: (low/med) MED Date Received: 1/4/2006

% Moisture: not dec. 5.94 Date Analyzed: 1/17/2006

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

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 125 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein	1000		U
107131	Acrylonitrile	1000		U
75650	tert-Butyl alcohol	1000		U
1634044	Methyl-tert-Butyl ether	100		U
108203	Di-isopropyl ether	100		U
75718	Dichlorodifluoromethane	100		U
74-87-3	Chloromethane	100		U
75-01-4	Vinyl Chloride	100		U
74-83-9	Bromomethane	100		U
75-00-3	Chloroethane	100		U
75-69-4	Trichlorofluoromethane	100		U
75-35-4	1,1-Dichloroethene	100		U
67-64-1	Acetone	430		
75-15-0	Carbon Disulfide	100		U
75-09-2	Methylene Chloride	100		U
156-60-5	trans-1,2-Dichloroethene	100		U
75-34-3	1,1-Dichloroethane	100		U
108-05-4	Vinyl Acetate	100		U
78-93-3	2-Butanone	100		U
156-59-2	cis-1,2-Dichloroethene	100		U
67-66-3	Chloroform	100		U
71-55-6	1,1,1-Trichloroethane	100		U
56-23-5	Carbon Tetrachloride	100		U
71-43-2	Benzene	100		U
107-06-2	1,2-Dichloroethane	100		U
79-01-6	Trichloroethene	100		U
78-87-5	1,2-Dichloropropane	100		U
75-27-4	Bromodichloromethane	100		U
110-75-8	2-Chloroethyl vinyl ether	100		U
10061-01-5	cis-1,3-Dichloropropene	100		U
108-10-1	4-Methyl-2-Pentanone	100		U
108-88-3	Toluene	100		U
10061-02-6	trans-1,3-Dichloropropene	100		U
79-00-5	1,1,2-Trichloroethane	100		U
127-18-4	Tetrachloroethene	100		U
591-78-6	2-Hexanone	100		U
124-48-1	Dibromochloromethane	100		U
108-90-7	Chlorobenzene	100		U
100-41-4	Ethylbenzene	57		J

VOLATILE ORGANICS ANALYSIS DATA SHEET

906AC

Lab Name: FMETL NJDEP#: 13461

Project: 0634880 Case No.: 60007 Location: 906A SDG No.: UST

Matrix: (soil/water) SOIL Lab Sample ID: 6000702

Sample wt/vol: 10.5 (g/ml) G Lab File ID: VB021394.D

Level: (low/med) MED Date Received: 1/4/2006

% Moisture: not dec. 5.94 Date Analyzed: 1/17/2006

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

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 125 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
1330-20-7	m+p-Xylenes	26	J	
95-47-6	o-Xylene	96	J	
100-42-5	Styrene	100	U	
75-25-2	Bromoform	100	U	
79-34-5	1,1,2,2-Tetrachloroethane	100	U	
541-73-1	1,3-Dichlorobenzene	100	U	
106-46-7	1,4-Dichlorobenzene	100	U	
95-50-1	1,2-Dichlorobenzene	100	U	
91-20-3	Naphthalene	100	U	

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

906AC

Lab Name: FMETL NJDEP#: 13461

Project: 0634880 Case No.: 60007 Location: 906A SDG No.: UST

Matrix: (soil/water) SOIL Lab Sample ID: 6000702

Sample wt/vol: 10.5 (g/ml) G Lab File ID: VB021394.D

Level: (low/med) MED Date Received: 1/4/2006

% Moisture: not dec. 5.94 Date Analyzed: 1/17/2006

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

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 125 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KGNumber TICs found: 10

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000526-73-8	Benzene, 1,2,3-trimethyl-	29.36	13000	JN
2. 000493-02-7	Naphthalene, decahydro-, trans-	30.36	11000	JN
3. 001074-43-7	Benzene, 1-methyl-3-propyl-	30.47	8200	JN
4. 000141-93-5	Benzene, 1,3-diethyl-	30.56	6900	JN
5. 000933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	31.32	8100	JN
6.	unknown	31.54	5400	J
7.	unknown	31.60	8800	J
8. 002958-76-1	Naphthalene, decahydro-2-methyl	32.02	6100	JN
9. 000527-84-4	Benzene, 1-methyl-2-(1-methylet	32.23	6200	JN
10.	unknown	33.09	8000	J

VOLATILE ORGANICS ANALYSIS DATA SHEET

906AE

Lab Name: FMETL NJDEP#: 13461

Project: 0634880 Case No.: 60007 Location: 906A SDG No.: UST

Matrix: (soil/water) SOIL Lab Sample ID: 6000703

Sample wt/vol: 10.2 (g/ml) G Lab File ID: VB021395.D

Level: (low/med) MED Date Received: 1/4/2006

% Moisture: not dec. 11.21 Date Analyzed: 1/17/2006

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

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 125 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
107028	Acrolein	1100	U	
107131	Acrylonitrile	1100	U	
75650	tert-Butyl alcohol	1100	U	
1634044	Methyl-tert-Butyl ether	110	U	
108203	Di-isopropyl ether	110	U	
75718	Dichlorodifluoromethane	110	U	
74-87-3	Chloromethane	110	U	
75-01-4	Vinyl Chloride	110	U	
74-83-9	Bromomethane	110	U	
75-00-3	Chloroethane	110	U	
75-69-4	Trichlorofluoromethane	110	U	
75-35-4	1,1-Dichloroethene	110	U	
67-64-1	Acetone	450		
75-15-0	Carbon Disulfide	110	U	
75-09-2	Methylene Chloride	110	U	
156-60-5	trans-1,2-Dichloroethene	110	U	
75-34-3	1,1-Dichloroethane	110	U	
108-05-4	Vinyl Acetate	110	U	
78-93-3	2-Butanone	110	U	
156-59-2	cis-1,2-Dichloroethene	110	U	
67-66-3	Chloroform	110	U	
71-55-6	1,1,1-Trichloroethane	110	U	
56-23-5	Carbon Tetrachloride	110	U	
71-43-2	Benzene	110	U	
107-06-2	1,2-Dichloroethane	110	U	
79-01-6	Trichloroethene	110	U	
78-87-5	1,2-Dichloropropane	110	U	
75-27-4	Bromodichloromethane	110	U	
110-75-8	2-Chloroethyl vinyl ether	110	U	
10061-01-5	cis-1,3-Dichloropropene	110	U	
108-10-1	4-Methyl-2-Pentanone	110	U	
108-88-3	Toluene	110	U	
10061-02-6	trans-1,3-Dichloropropene	110	U	
79-00-5	1,1,2-Trichloroethane	110	U	
127-18-4	Tetrachloroethene	110	U	
591-78-6	2-Hexanone	110	U	
124-48-1	Dibromochloromethane	110	U	
108-90-7	Chlorobenzene	110	U	
100-41-4	Ethylbenzene	600		

VOLATILE ORGANICS ANALYSIS DATA SHEET

906AE

Lab Name: FMETLNJDEP#: 13461Project: 0634880Case No.: 60007Location: 906A SDG No.: USTMatrix: (soil/water) SOILLab Sample ID: 6000703Sample wt/vol: 10.2 (g/ml) GLab File ID: VB021395.DLevel: (low/med) MEDDate Received: 1/4/2006% Moisture: not dec. 11.21Date Analyzed: 1/17/2006GC Column: RTX502 ID: 0.25 (mm)Dilution Factor: 1.0Soil Extract Volume: 25000 (uL)Soil Aliquot Volume: 125 (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
1330-20-7	m+p-Xylenes	700		
95-47-6	o-Xylene	100		J
100-42-5	Styrene	110		U
75-25-2	Bromoform	110		U
79-34-5	1,1,2,2-Tetrachloroethane	110		U
541-73-1	1,3-Dichlorobenzene	110		U
106-46-7	1,4-Dichlorobenzene	110		U
95-50-1	1,2-Dichlorobenzene	110		U
91-20-3	Naphthalene	110		U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

906AE

Lab Name: FMETL NJDEP#: 13461

Project: 0634880 Case No.: 60007 Location: 906A SDG No.: UST

Matrix: (soil/water) SOIL Lab Sample ID: 6000703

Sample wt/vol: 10.2 (g/ml) G Lab File ID: VB021395.D

Level: (low/med) MED Date Received: 1/4/2006

% Moisture: not dec. 11.21 Date Analyzed: 1/17/2006

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

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 125 (uL)

CONCENTRATION UNITS:

Number TICs found: 10 (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	28.13	6000	J
2. 000095-36-3	1,2,4-Trimethylbenzene	29.36	13000	JN
3. 000493-02-7	Naphthalene, decahydro-, trans-	30.36	9000	JN
4. 001074-43-7	Benzene, 1-methyl-3-propyl-	30.48	8200	JN
5. 001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	30.56	6100	JN
6. 000874-41-9	Benzene, 1-ethyl-2,4-dimethyl-	31.32	5100	JN
7. 002958-76-1	Naphthalene, decahydro-2-methyl	31.61	7800	JN
8. 002958-76-1	Naphthalene, decahydro-2-methyl	32.02	5400	JN
9. 000099-87-6	Benzene, 1-methyl-4-(1-methylet	32.23	5300	JN
10.	unknown	33.08	7200	J

SEMI-VOLATILE ORGANICS

000068

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

Data File Name BNA11446.D
 Operator Skelton
 Date Acquired 17-Jan-06

Sample Name MB 01090601
 Misc Info MB 01090601
 Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifiers
110-86-1	Pyridine			not detected	NLE	1.13	10.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.60	10.00 ug/L	
62-53-3	Aniline			not detected	NLE	2.38	10.00 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.71	10.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.02	10.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.99	10.00 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.66	10.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.96	10.00 ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	0.88	10.00 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.76	10.00 ug/L	
67-72-1	Hexachloroethane			not detected	10	0.96	10.00 ug/L	
98-95-3	Nitrobenzene			not detected	10	0.86	10.00 ug/L	
78-59-1	Isophorone			not detected	100	0.76	10.00 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.79	10.00 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.89	10.00 ug/L	
91-20-3	Naphthalene			not detected	NLE	0.76	10.00 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.37	10.00 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.99	10.00 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.01	10.00 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.92	10.00 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.72	10.00 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.77	10.00 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.78	10.00 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.67	10.00 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.71	10.00 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.18	10.00 ug/L	
83-32-9	Acenaphthene			not detected	400	0.73	10.00 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.69	10.00 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	10	0.81	10.00 ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.96	10.00 ug/L	
86-73-7	Fluorene			not detected	300	0.71	10.00 ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.73	10.00 ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.11	10.00 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.62	10.00 ug/L	
103-33-3	Azobenzene			not detected	NLE	0.72	10.00 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.92	10.00 ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.95	10.00 ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.81	10.00 ug/L	
120-12-7	Anthracene			not detected	2000	0.76	10.00 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.92	10.00 ug/L	
206-44-0	Fluoranthene			not detected	300	0.82	10.00 ug/L	

Semi-Volatile Analysis Report

Page 2

Data File Name **BNA11446.D**
 Operator **Skelton**
 Date Acquired **17-Jan-06**

Sample Name **MB 01090601**
 Misc Info **MB 01090601**
 Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifiers
92-87-5	Benzydine			not detected	50	0.98	10.00 ug/L	
129-00-0	Pyrene			not detected	200	0.79	10.00 ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.86	10.00 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.82	10.00 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.31	10.00 ug/L	
218-01-9	Chrysene			not detected	20	0.77	10.00 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.28	10.00 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.02	10.00 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.98	10.00 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.92	10.00 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.71	10.00 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.76	10.00 ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.76	10.00 ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.80	10.00 ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

RL= Reporting Limit. The values between the MDL and RL are considered estimated.

MDL= Method Detection Limit

NLE= No Limit Established

R.T.=Retention Time

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MB-010906-01

Lab Name: FMETL Lab Code 13461
Project: 06-34880 Case No.: 60007 Location: UST SDG No.:
Matrix: (soil/water) WATER Lab Sample ID: MB 01090601
Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA11446.D
Level: (low/med) LOW Date Received: 1/4/2006
% Moisture: decanted: (Y/N) N Date Extracted: 1/9/2006
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 1/17/2006
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown hydrocarbon	6.82	7	J

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

Data File Name **BNA11451.D**
 Operator **Skelton**
 Date Acquired **17-Jan-06**

Sample Name **6000705**
 Misc Info **906AC**
 Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifiers
110-86-1	Pyridine			not detected	NLE	1.13	10.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.60	10.00 ug/L	
62-53-3	Aniline			not detected	NLE	2.38	10.00 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.71	10.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.02	10.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.99	10.00 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.66	10.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.96	10.00 ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	0.88	10.00 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.76	10.00 ug/L	
67-72-1	Hexachloroethane			not detected	10	0.96	10.00 ug/L	
98-95-3	Nitrobenzene			not detected	10	0.86	10.00 ug/L	
78-59-1	Isophorone			not detected	100	0.76	10.00 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.79	10.00 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.89	10.00 ug/L	
91-20-3	Naphthalene	13.45	6130404	95.10 ug/L	NLE	0.76	10.00 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.37	10.00 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.99	10.00 ug/L	
91-57-6	2-Methylnaphthalene	15.13	7596989	181.73 ug/L	NLE	1.01	10.00 ug/L	E
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.92	10.00 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.72	10.00 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.77	10.00 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.78	10.00 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.67	10.00 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.71	10.00 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.18	10.00 ug/L	
83-32-9	Acenaphthene			not detected	400	0.73	10.00 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.69	10.00 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	10	0.81	10.00 ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.96	10.00 ug/L	
86-73-7	Fluorene			not detected	300	0.71	10.00 ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.73	10.00 ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.11	10.00 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.62	10.00 ug/L	
103-33-3	Azobenzene			not detected	NLE	0.72	10.00 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.92	10.00 ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.95	10.00 ug/L	
85-01-8	Phenanthrene	21.38	20596979	233.39 ug/L	NLE	0.81	10.00 ug/L	E
120-12-7	Anthracene			not detected	2000	0.76	10.00 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.92	10.00 ug/L	
206-44-0	Fluoranthene			not detected	300	0.82	10.00 ug/L	

Semi-Volatile Analysis Report

Page 2

Data File Name **BNA11451.D**
 Operator **Skelton**
 Date Acquired **17-Jan-06**

Sample Name **6000705**
 Misc Info **906AC**
 Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifiers
92-87-5	Benzidine			not detected	50	0.98	10.00 ug/L	
129-00-0	Pyrene	24.71	4308044	77.93 ug/L	200	0.79	10.00 ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.86	10.00 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.82	10.00 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.31	10.00 ug/L	
218-01-9	Chrysene			not detected	20	0.77	10.00 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate	27.71	107539	3.15 ug/L	30	1.28	10.00 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.02	10.00 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.98	10.00 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.92	10.00 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.71	10.00 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.76	10.00 ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.76	10.00 ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.80	10.00 ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

RL= Reporting Limit. The values between the MDL and RL are considered estimated.

MDL= Method Detection Limit

NLE= No Limit Established

R.T.=Retention Time

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

Data File Name BNA11466.D

Operator Skelton

Date Acquired 18-Jan-06

Sample Name 6000705

Misc Info 906AC 1:5 Dilution

Sample Multiplier 5

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifiers
110-86-1	Pyridine			not detected	NLE	5.65	50.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	3.00	50.00 ug/L	
62-53-3	Aniline			not detected	NLE	11.90	50.00 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	3.55	50.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	5.10	50.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	4.95	50.00 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	3.30	50.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	4.80	50.00 ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	4.40	50.00 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	3.80	50.00 ug/L	
67-72-1	Hexachloroethane			not detected	10	4.80	50.00 ug/L	
98-95-3	Nitrobenzene			not detected	10	4.30	50.00 ug/L	
78-59-1	Isophorone			not detected	100	3.80	50.00 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	3.95	50.00 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	4.45	50.00 ug/L	
91-20-3	Naphthalene	13.34	668694	59.03 ug/L	NLE	3.80	50.00 ug/L	D
106-47-8	4-Chloroaniline			not detected	NLE	6.85	50.00 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	4.95	50.00 ug/L	
91-57-6	2-Methylnaphthalene	15.02	1244682	169.44 ug/L	NLE	5.05	50.00 ug/L	D
77-47-4	Hexachlorocyclopentadiene			not detected	50	4.60	50.00 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	3.60	50.00 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	3.85	50.00 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	3.90	50.00 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	3.35	50.00 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	3.55	50.00 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	5.90	50.00 ug/L	
83-32-9	Acenaphthene			not detected	400	3.65	50.00 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	3.45	50.00 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	10	4.05	50.00 ug/L	
84-66-2	Diethylphthalate			not detected	5000	4.80	50.00 ug/L	
86-73-7	Fluorene			not detected	300	3.55	50.00 ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	3.65	50.00 ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	5.55	50.00 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	3.10	50.00 ug/L	
103-33-3	Azobenzene			not detected	NLE	3.60	50.00 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	4.60	50.00 ug/L	
118-74-1	Hexachlorobenzene			not detected	10	4.75	50.00 ug/L	
85-01-8	Phenanthrene	21.20	3207875	189.24 ug/L	NLE	4.05	50.00 ug/L	D
120-12-7	Anthracene			not detected	2000	3.80	50.00 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	4.60	50.00 ug/L	
206-44-0	Fluoranthene			not detected	300	4.10	50.00 ug/L	

Semi-Volatile Analysis Report

Page 2

Data File Name **BNA11466.D**
 Operator **Skelton**
 Date Acquired **18-Jan-06**

Sample Name **6000705**
 Misc Info **906AC 1:5 Dilution**
 Sample Multiplier **5**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifiers
92-87-5	Benzidine			not detected	50	4.90	50.00 ug/L	
129-00-0	Pyrene	24.59	466137	41.04 ug/L	200	3.95	50.00 ug/L	D
85-68-7	Butylbenzylphthalate			not detected	100	4.30	50.00 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	4.10	50.00 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	6.55	50.00 ug/L	
218-01-9	Chrysene			not detected	20	3.85	50.00 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	6.40	50.00 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	5.10	50.00 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	4.90	50.00 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	4.60	50.00 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	3.55	50.00 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	3.80	50.00 ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	3.80	50.00 ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	4.00	50.00 ug/L	

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

RL= Reporting Limit. The values between the MDL and RL are considered estimated.

MDL= Method Detection Limit

NLE= No Limit Established

R.T.=Retention Time

Page 2 of 2

000075

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

906AC

Lab Name: FMETL Lab Code 13461

Project: 06-34880 Case No.: 60007 Location: UST SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 6000705

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA11451.D

Level: (low/med) LOW Date Received: 1/4/2006

% Moisture: _____ decanted: (Y/N) N Date Extracted: 1/9/2006

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 1/17/2006

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown hydrocarbon	7.20	6	J
2.	unknown hydrocarbon	7.53	6	J
3. 003728-57-2	Cyclopentane, 1-methyl-2-propyl-	7.86	5	JN
4.	unknown hydrocarbon	8.34	10	J
5.	unknown hydrocarbon	8.61	12	J
6.	unknown hydrocarbon	8.82	38	J
7.	unknown hydrocarbon	9.36	23	J
8.	unknown hydrocarbon	9.54	12	J
9. 004291-79-6	Cyclohexane, 1-methyl-2-propyl-	9.84	16	JN
10. 000526-73-8	Benzene, 1,2,3-trimethyl-	10.01	9	JN
11.	unknown hydrocarbon	10.30	5	J
12. 017302-28-2	Nonane, 2,6-dimethyl-	10.49	40	JN
13.	unknown hydrocarbon	10.78	11	J
14.	unknown hydrocarbon	10.99	12	J
15.	unknown hydrocarbon	12.49	40	J

TPHC

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

Project # : 60007
Location : 906A
UST Reg. # :

Analysis : OQA-QAM-025
Matrix : Soil
Inst. ID. : GC TPHC INST. #1
Column Type : RTX-5, 0.32mm ID, 30M
Injection Volume : 1uL

Date Received : 03-Jan-06
Date Extracted : 06-Jan-06
Extraction Method : Shake
Analysis Complete : 07-Jan-06
Analyst : P.Skelton

Lab ID	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	RL	TPHC Result (mg/kg)
6000701	906AC	1.00	15.78	85.66	71	370	693.23
6000702	906AC	1.00	15.26	94.06	67	348	5634.52
6000703	906AB	1.00	15.43	88.79	70	365	6699.15
6000704	906AW	1.00	15.06	86.57	74	384	195.12
METHOD BLANK	MB-01060601	1.00	15.00	100.00	64	333	ND

ND = Not Detected

MDL = Method Detection Limit

RL = Reporting Limits

Note : The TPHC result between the MDL and RL are considered an estimated value

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LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

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

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

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

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

Laboratory Manager or Environmental Consultant's Signature

Date: 1/27/06

Laboratory Certification # 13461

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

000117

Laboratory Authentication Statement

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

A handwritten signature in black ink, appearing to read 'DK Wright', is written over a horizontal line.

Daniel K. Wright
Laboratory Manager

ATTACHMENT E

UST 910 File Review and Analyses

UNDERGROUND STORAGE TANK FILE REVIEW
FORT MONMOUTH BRAC 05 FACILITY
OCEANPORT, NEW JERSEY

Date: March 10, 2015

Review Performed By: Kent Friesen, Parsons

Site ID: **Bldg. 910**

Registration ID: 81533-148

Recommended Status of Site: **Case Closed (no change)**

UST Probability (from May 2014 "Addendum 1 ECP UHOT Report"): **NFA**

Based on the file review, were there indications of a contaminant release? ☐ Yes ☒ No

NJDEP Release No. or DICAR (If applicable): None

Did NJDEP approve No Further Action (NFA) for this site? ☐ Yes ☒ No ☐ Not Applicable

Tank Description: ☒ Steel ☐ Fiberglass Size: 1000 gal. Contents: No. 2 Fuel Oil

☐ Residential ☒ Commercial/Industrial

Tank Removed? ☒ Yes ☐ No If "yes," removal date: June 26, 1990

Were closure soil samples taken? ☐ Yes ☒ No Analyses: _____

Comparison criteria: _____

Were closure soil sample results less than comparison criteria? ☐ Yes ☐ No

Brief Narrative

This steel No. 2 fuel oil UST was located adjacent to Building 910. The tank was removed in 1990, but closure soil samples were not collected because contamination was not observed, which was the standard Army procedure at the time.

Additional soil sampling was performed using a Geoprobe in 2006 to assess the site for petroleum contamination (analyses attached). Three soil samples were collected from the site for total petroleum hydrocarbons (TPH) analysis, and one groundwater sample for volatile organic compounds (VOCs) and semivolatile organic compounds (SVOCs) analysis. The soil results were non-detected for TPH, which was less than the current TPH remediation criterion of 5,100 mg/kg for TPH. The VOC chloroform was detected in groundwater at a concentration less than the NJDEP Class II Ground Water Quality Criteria. No SVOCs were detected in groundwater.

In conclusion, the analytical results support the UST Case Status of "Case Closed."

Recommendations (if any): Request NFA from NJDEP

Signed: _____



Kent A. Friesen, Parsons

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS

PHONE: (732) 532-4359 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: BLDG. 910

Bldg. 910

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
910 C 6.5-7.0'	6001001	Soil	05-Jan-06 10:39	01/05/06
910 E 6.5-7.0'	6001002	Soil	05-Jan-06 11:05	01/05/06
910 W 6.5-7.0'	6001003	Soil	05-Jan-06 11:40	01/05/06
Duplicate	6001004	Soil	05-Jan-06 11:40	01/05/06
910 C GW	6001005	Aqueous	05-Jan-06 12:31	01/05/06
Trip Blank	6001006	Aqueous	05-Jan-06	01/05/06
Trip Blank	6001007	Methanol	05-Jan-06	01/05/06

ANALYSIS:

FORT MONMOUTH ENVIRONMENTAL LAB
VOA+15, BN+15, TPHC, % SOLIDS

ENCLOSURE:
CHAIN OF CUSTODY
RESULTS

(QC and raw data not included for brevity)

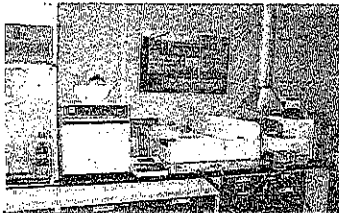

Daniel Wright/Date 1-27-06
Laboratory Director

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CHAIN OF CUSTODY

000001



Fort Monmouth Environmental Testing Laboratory

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

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

NJDEP Certification #13461

Chain of Custody Record

Customer: John McCarthy		Project No: 06-34880		Analysis Parameters								Comments:			
Phone: X2 6224		Location: 910													
() DERA () OMA () Other:		(Former UST)													
Samplers Name / Company: George Boyce / TVS				Sample #											
LIMS/Work Order #	Sample Location	Date	Time	Type	bottles	TPH	VO+10	BN+15						Remarks / Preservation Method	
600010 01	910C 6.5-7.0	1/5/06	1039	Soil	2	X								4402	
02	910 E 6.5-7.0		1105	Soil	2	X								4403	
03	910 W 6.5-7.0		1140	Soil	2	X								4404	
04	Dupe		1140	Soil	2	X								4405	
05	910C-GW		1231	AQ	1		X	X							
06	TRIP		—	AQ			X								
07	TRIP		—	Meth Soil			X							4401	
Relinquished by (signature):		Date/Time:		Received by (signature):		Relinquished by (signature):		Date/Time:		Received by (signature):					
George Boyce		1-5-06 1550		G. Boyce											
Relinquished by (signature):		Date/Time:		Received by (signature):		Relinquished by (signature):		Date/Time:		Received by (signature):					
Report Type: () Full, (X) Reduced, () Standard, () Screen / non-certified, () EDD						Remarks:									
Turnaround time: (X) Standard 3 wks, () Rush Days, () ASAP Verbal Hrs.															

SAMPLE RECEIPT FORM

Date Received: 1-5-06

Work Order ID#: 60010

Site/Proj. Name: Bldg 910/UST

Cooler Temp (°C): 3.0C

Received By: J. Verma
(Print name)

Sign: J. Verma

Check the appropriate box

- | | |
|---|--|
| 1. Did the samples come in a cooler? | ☒ yes ☐ no ☐ n/a |
| 2. Were samples rec'd in good condition? | ☒ yes ☐ no |
| 3. Was the chain of custody filled out correctly and legibly? | ☒ yes ☐ no |
| 4. Was the chain of custody signed in the appropriate place? | ☒ yes ☐ no |
| 5. Did the labels agree with the chain of custody? | ☒ yes ☐ no |
| 6. Were the correct containers/preservatives used? | ☒ yes ☐ no |
| 7. Was a sufficient amount of sample supplied? | ☒ yes ☐ no |
| 8. Were air bubbles present in VOA vials? | ☐ yes ☒ no ☐ n/a |
| 9. Were samples received on ice? | ☒ yes ☐ no |
| 10. Were analyze-immediately tests perform within 15 minutes | ☐ yes ☐ no ☒ n/a |

Fill out the following table for each sample bottle

Lims ID	pH	Preservative	Sample ID	pH	Preservative

Comments: _____

Former UST 910 Sample Location GPS Positions

US State Plane 1983 New Jersey (NY East) 2900

NAD 1983 (Conus)

Geoid 96 (Conus)

(In US Survey Feet)

Position	Northing (Y Coord.)	Easting (X Coord.)
910 E	538995.398	621019.991
910 C	539001.664	621014.762
910 W	539004.425	621007.821

000004

METHOD SUMMARY

000005

Methodology Summary

EPA Method 624

Gas Chromatographic Determination of Volatiles in Water

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

EPA SW-846 Method 8260

Gas Chromatographic Determination of Volatiles in Methanol

A 10-gram volume of soil is combined with 25-ml of Methanol and surrogates in the field. 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.

EPA Method 625

Gas Chromatographic Determination of Semi-volatiles in Water

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

NJDEP Method OQA-QAM-025 10/97

Gas Chromatographic Determination of Total Petroleum Hydrocarbons in Soil

Fifteen grams (15g) of soil is added to a 125-ml acid cleaned and solvent rinsed capped Erlenmeyer flask. 15g anhydrous Sodium Sulfate is added to dry the sample. Surrogate standard spiking solution is then added to the flask.

Twenty-five ml of Methylene Chloride is added to the flask and it is secured on an orbital shaker table. The agitation rate is set to 400 rpm and the sample is shaken for 30 minutes. The flask is removed from the table and the particulate matter is allowed to settle. The extract is transferred to a Teflon capped vial. A second 25-ml of Methylene Chloride is added to the flask and shaken for an additional 30 minutes. The flask is again removed and allowed to settle. The extracts are combined in the vial then transferred to a 1-ml auto-sampler vial.

The extract is then injected directly into a GC-FID for analysis. The sample is analyzed for Petroleum Hydrocarbons covering a range of C8-C42, including Pristane and Phytane. Total Petroleum Hydrocarbon concentration is determined by integrating between 5 minutes and 22 minutes. The baseline is established by starting the integration after the end of the solvent peak and stopping after the last peak. The final concentration of Total Petroleum Hydrocarbons is calculated using percent moisture, sample weight and concentration.

LABORATORY CHRONICLE

000008

Laboratory Chronicle

Lab ID: 60010

Site: UST
Bldg. 910

	Date	Hold Time
Date Sampled	01/05/06	NA
Receipt/Refrigeration	01/05/06	NA
Extractions		
1. BN	01/09/06	7 days
2. TPHC	01/11/06	14 days
Analyses		
1. VOA	01/11,12/06	14 days
2. BN	01/17/06	40 days
3. TPHC	01/12/06	40 days

0008A

**CONFORMANCE/
NON-
CONFORMANCE
SUMMARY**

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 yes
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 NO

If not met, list those compounds and their recoveries, which fall outside the acceptable range:

 - a. VOA Fraction _____
 - b. B/N Fraction Terphenyl 44%
 - c. Acid Fraction _____

If not met, were the calculations checked and the results qualified as "estimated"? yes
9. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria NO

(If not met, list those compounds and their recoveries, which fall outside the acceptable range)

 - a. VOA Fraction Naphthalene ms+msd low
 - b. B/N Fraction Benzidine msd low RPD high
 - c. Acid Fraction _____

000010

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

Indicate
Yes, No, N/A

10. Internal Standard Area/Retention Time Shift Meet Criteria
(If not met, list those compounds, which fall outside the acceptable range)

yes

- a. VOA Fraction _____
b. B/N Fraction _____
c. Acid Fraction _____

11. Extraction Holding Time Met

yes

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

12. Analysis Holding Time Met

yes

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

Additional Comments:

Laboratory Manager: _____

Date: 1-27-06

TPHC CONFORMANCE/NON-CONFORMANCE SUMMARY REPORT

Indicate
Yes, No, N/A

- | | | |
|----|---|------------|
| 1. | Method Detection Limits Provided | <u>yes</u> |
| 2. | Method Blank Contamination – If yes, list the sample and the corresponding concentrations in each blank

_____ | <u>no</u> |
| 3. | Matrix Spike Results Summary Meet Criteria
(If not met, list the sample and corresponding recovery which falls outside the acceptable range)

_____ | <u>yes</u> |
| 4. | Duplicate Results Summary Meet Criteria

_____ | <u>yes</u> |
| 5. | IR Spectra submitted for standards, blanks and samples | <u>NA</u> |
| 6. | Chromatograms submitted for standards, blanks and samples if GC fingerprinting was conducted | <u>yes</u> |
| 7. | Analysis holding time met
(If not met, list number of days exceeded for each sample)

_____ | <u>yes</u> |

Additional comments: _____

Laboratory Manager: _____

Date: 1-27-06

000012

VOLATILE ORGANICS (AQUEOUS)

**US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP CERTIFICATION # 13461**

Definition of Qualifiers

- U:** The compound was analyzed for but not detected.
- B:** Indicates that the compound was found in the associated method blank as well as in the sample.
- J:** Indicates an estimated value. This flag is used:
- (1)** When the mass spec and retention time data indicate the presence of a compound however the result is less than the MDL but greater than zero.
 - (2)** When estimating the concentration of a tentatively identified compound (TIC), where a 1:1 response is assumed.
- D:** This flag is used to identify all compounds (target or TIC) that required a dilution.
- E:** Indicates the compound's concentration exceeds the calibration range of the instrument for that specific analysis.
- N:** This flag is only used for TICs. It indicates the presumptive evidence of a compound. For a generic characterization of a TIC, such as unknown hydrocarbon, the flag is not used.

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

Data File **VB021318.D**
 Operator **Skelton**
 Date Acquired **11 Jan 2006 8:48 pm**

Sample Name **MB 11Jan2006**
 Field ID **MB 11Jan2006**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	2.01 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	5	1.23 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	5.70 ug/L	10.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.21 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.26 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.20 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	nle	0.24 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.23 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.26 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.29 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.23 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.19 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	6000	0.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.24 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.21 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.24 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	50	0.24 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.26 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.20 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	70	0.22 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.20 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.24 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.24 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.23 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.26 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.24 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.22 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.23 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.22 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.35 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.26 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.25 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.28 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.20 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.43 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	1	0.22 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	50	0.28 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.27 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.43 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.21 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.21 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.27 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.45 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.36 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.35 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.45 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Interim Criteria as per N.J.A.C. 7:9C 07Nov2005

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
 R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

MB 11Jan2006

Lab Name: FMETL NJDEP#: 13461

Project: 0634880 Case No.: 60010 Location: 910 SDG No.: UST

Matrix: (soil/water) WATER Lab Sample ID: MB 11Jan2006

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB021318.D

Level: (low/med) LOW Date Received: 1/4/2006

% Moisture: not dec. _____ Date Analyzed: 1/11/2006

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

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/LNumber TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000079-20-9	Acetic acid, methyl ester	12.47	4	JN

Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File VB021324.D
 Operator Skelton
 Date Acquired 12 Jan 2006 12:54 am

Sample Name 6001006
 Field ID Trip Blank
 Sample Multiplier 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	2.01 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	5	1.23 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	5.70 ug/L	10.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.21 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.26 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.20 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	nle	0.24 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.23 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.26 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.29 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.23 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.19 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	6000	0.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.24 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.21 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.24 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	50	0.24 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.26 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.20 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	70	0.22 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.20 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.24 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.24 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.23 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.26 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.24 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.22 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.23 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.22 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.35 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.26 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.25 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.28 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.20 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.43 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	1	0.22 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	50	0.28 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.27 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.43 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.21 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.21 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.27 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.45 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.36 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.35 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.45 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Interim Criteria as per N.J.A.C. 7:9C 07Nov2005

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
 R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

Trip Blank

Lab Name: FMETL NJDEP#: 13461
Project: 0634880 Case No.: 60006 Location: 637 SDG No.: UST
Matrix: (soil/water) WATER Lab Sample ID: 6001006
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB021324.D
Level: (low/med) LOW Date Received: 1/4/2006
% Moisture: not dec. Date Analyzed: 1/12/2006
GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/LNumber TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000079-20-9	Acetic acid, methyl ester	12.47	4	JN

Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File VB021323.D
 Operator Skelton
 Date Acquired 12 Jan 2006 12:13 am

Sample Name 6001005
 Field ID 910C
 Sample Multiplier 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	2.01 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	5	1.23 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	5.70 ug/L	10.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.21 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.26 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.20 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	nle	0.24 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.23 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.26 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.29 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.23 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.19 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	6000	0.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.24 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.21 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.24 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	50	0.24 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.26 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.20 ug/L	2.00 ug/L	
67-66-3	Chloroform	16.68	29813	0.42 ug/L	70	0.22 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.20 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.24 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.24 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.23 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.26 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.24 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.22 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.23 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.22 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.35 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.26 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.25 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.28 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.20 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.43 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	1	0.22 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	50	0.28 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.27 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.43 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.21 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.21 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.27 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.45 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.36 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.35 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.45 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Interim Criteria as per N.J.A.C. 7:9C 07Nov2005

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
 R.L. = Reporting Limit

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

910C-GW

Lab Name: FMETL NJDEP#: 13461
Project: 0634880 Case No.: 60006 Location: 637 SDG No.: UST
Matrix: (soil/water) WATER Lab Sample ID: 6001005
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB021323.D
Level: (low/med) LOW Date Received: 1/4/2006
% Moisture: not dec. _____ Date Analyzed: 1/12/2006
GC Column: RTX502 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: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000079-20-9	Acetic acid, methyl ester	12.48	4	JN

SEMI-VOLATILE ORGANICS

000034

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

Data File Name **BNA11446.D**
 Operator **Skelton**
 Date Acquired **17-Jan-06**

Sample Name **MB 01090601**
 Misc Info **MB 01090601**
 Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifiers
110-86-1	Pyridine			not detected	NLE	1.13	10.00	ug/L
62-75-9	N-nitroso-dimethylamine			not detected	20	0.60	10.00	ug/L
62-53-3	Aniline			not detected	NLE	2.38	10.00	ug/L
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.71	10.00	ug/L
541-73-1	1,3-Dichlorobenzene			not detected	600	1.02	10.00	ug/L
106-46-7	1,4-Dichlorobenzene			not detected	75	0.99	10.00	ug/L
100-51-6	Benzyl alcohol			not detected	NLE	0.66	10.00	ug/L
95-50-1	1,2-Dichlorobenzene			not detected	600	0.96	10.00	ug/L
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	0.88	10.00	ug/L
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.76	10.00	ug/L
67-72-1	Hexachloroethane			not detected	10	0.96	10.00	ug/L
98-95-3	Nitrobenzene			not detected	10	0.86	10.00	ug/L
78-59-1	Isophorone			not detected	100	0.76	10.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.79	10.00	ug/L
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.89	10.00	ug/L
91-20-3	Naphthalene			not detected	NLE	0.76	10.00	ug/L
106-47-8	4-Chloroaniline			not detected	NLE	1.37	10.00	ug/L
87-68-3	Hexachlorobutadiene			not detected	1	0.99	10.00	ug/L
91-57-6	2-Methylnaphthalene			not detected	NLE	1.01	10.00	ug/L
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.92	10.00	ug/L
91-58-7	2-Chloronaphthalene			not detected	NLE	0.72	10.00	ug/L
88-74-4	2-Nitroaniline			not detected	NLE	0.77	10.00	ug/L
131-11-3	Dimethylphthalate			not detected	7000	0.78	10.00	ug/L
208-96-8	Acenaphthylene			not detected	NLE	0.67	10.00	ug/L
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.71	10.00	ug/L
99-09-2	3-Nitroaniline			not detected	NLE	1.18	10.00	ug/L
83-32-9	Acenaphthene			not detected	400	0.73	10.00	ug/L
132-64-9	Dibenzofuran			not detected	NLE	0.69	10.00	ug/L
121-14-2	2,4-Dinitrotoluene			not detected	10	0.81	10.00	ug/L
84-66-2	Diethylphthalate			not detected	5000	0.96	10.00	ug/L
86-73-7	Fluorene			not detected	300	0.71	10.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.73	10.00	ug/L
100-01-6	4-Nitroaniline			not detected	NLE	1.11	10.00	ug/L
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.62	10.00	ug/L
103-33-3	Azobenzene			not detected	NLE	0.72	10.00	ug/L
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.92	10.00	ug/L
118-74-1	Hexachlorobenzene			not detected	10	0.95	10.00	ug/L
85-01-8	Phenanthrene			not detected	NLE	0.81	10.00	ug/L
120-12-7	Anthracene			not detected	2000	0.76	10.00	ug/L
84-74-2	Di-n-butylphthalate			not detected	900	0.92	10.00	ug/L
206-44-0	Fluoranthene			not detected	300	0.82	10.00	ug/L

Semi-Volatile Analysis Report

Page 2

Data File Name **BNA11446.D**
 Operator **Skelton**
 Date Acquired **17-Jan-06**

Sample Name **MB 01090601**
 Misc Info **MB 01090601**
 Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifiers
92-87-5	Benzidine			not detected	50	0.98	10.00	ug/L
129-00-0	Pyrene			not detected	200	0.79	10.00	ug/L
85-68-7	Butylbenzylphthalate			not detected	100	0.86	10.00	ug/L
56-55-3	Benzo[a]anthracene			not detected	10	0.82	10.00	ug/L
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.31	10.00	ug/L
218-01-9	Chrysene			not detected	20	0.77	10.00	ug/L
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.28	10.00	ug/L
117-84-0	Di-n-octylphthalate			not detected	100	1.02	10.00	ug/L
205-99-2	Benzo[b]fluoranthene			not detected	10	0.98	10.00	ug/L
207-08-9	Benzo[k]fluoranthene			not detected	2	0.92	10.00	ug/L
50-32-8	Benzo[a]pyrene			not detected	20	0.71	10.00	ug/L
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.76	10.00	ug/L
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.76	10.00	ug/L
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.80	10.00	ug/L

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

RL= Reporting Limit. The values between the MDL and RL are considered estimated.

MDL= Method Detection Limit

NLE= No Limit Established

R.T.=Retention Time

Page 2 of 2

000036

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MB-010906-01

Lab Name: FMETL Lab Code 13461

Project: 06-34880 Case No.: 60010 Location: UST SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: MB 01090601

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA11446.D

Level: (low/med) LOW Date Received: 1/5/2006

% Moisture: _____ decanted: (Y/N) N Date Extracted: 1/9/2006

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 1/17/2006

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown hydrocarbon	6.82	7	J

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

Data File Name **BNA11453.D**
 Operator **Skelton**
 Date Acquired **17-Jan-06**

Sample Name **6001005**
 Misc Info **910C-GW**
 Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	ug/L	Qualifiers
110-86-1	Pyridine			not detected	NLE	1.13	10.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.60	10.00	ug/L	
62-53-3	Aniline			not detected	NLE	2.38	10.00	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.71	10.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.02	10.00	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.99	10.00	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.66	10.00	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.96	10.00	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	0.88	10.00	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.76	10.00	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.96	10.00	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.86	10.00	ug/L	
78-59-1	Isophorone			not detected	100	0.76	10.00	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.79	10.00	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.89	10.00	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.76	10.00	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.37	10.00	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.99	10.00	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.01	10.00	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.92	10.00	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.72	10.00	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.77	10.00	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.78	10.00	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.67	10.00	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.71	10.00	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.18	10.00	ug/L	
83-32-9	Acenaphthene			not detected	400	0.73	10.00	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.69	10.00	ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	10	0.81	10.00	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.96	10.00	ug/L	
86-73-7	Fluorene			not detected	300	0.71	10.00	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.73	10.00	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.11	10.00	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.62	10.00	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.72	10.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.92	10.00	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.95	10.00	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.81	10.00	ug/L	
120-12-7	Anthracene			not detected	2000	0.76	10.00	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.92	10.00	ug/L	
206-44-0	Fluoranthene			not detected	300	0.82	10.00	ug/L	

Semi-Volatile Analysis Report

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Data File Name **BNA11453.D**
 Operator **Skelton**
 Date Acquired **17-Jan-06**

Sample Name **6001005**
 Misc Info **910C-GW**
 Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifiers
92-87-5	Benzidine			not detected	50	0.98	10.00	ug/L
129-00-0	Pyrene			not detected	200	0.79	10.00	ug/L
85-68-7	Butylbenzylphthalate			not detected	100	0.86	10.00	ug/L
56-55-3	Benzo[a]anthracene			not detected	10	0.82	10.00	ug/L
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.31	10.00	ug/L
218-01-9	Chrysene			not detected	20	0.77	10.00	ug/L
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.28	10.00	ug/L
117-84-0	Di-n-octylphthalate			not detected	100	1.02	10.00	ug/L
205-99-2	Benzo[b]fluoranthene			not detected	10	0.98	10.00	ug/L
207-08-9	Benzo[k]fluoranthene			not detected	2	0.92	10.00	ug/L
50-32-8	Benzo[a]pyrene			not detected	20	0.71	10.00	ug/L
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.76	10.00	ug/L
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.76	10.00	ug/L
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.80	10.00	ug/L

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

RL= Reporting Limit. The values between the MDL and RL are considered estimated.

MDL= Method Detection Limit

NLE= No Limit Established

R.T.=Retention Time

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

910C-GW

Lab Name: FMETL Lab Code 13461
Project: 06-34880 Case No.: 60010 Location: UST SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 6001005
Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA11453.D
Level: (low/med) LOW Date Received: 1/5/2006
% Moisture: _____ decanted: (Y/N) N Date Extracted: 1/9/2006
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 1/17/2006
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown hydrocarbon	6.82	12	J

TPHC

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

Project # : 60010
Location : 910
UST Reg. # :

Analysis : OQA-QAM-025
Matrix : Soil
Inst. ID. : GC TPHC INST. #1
Column Type : RTX-5, 0.32mm ID, 30M
Injection Volume : 1uL

Date Received : 05-Jan-06
Date Extracted : 11-Jan-06
Extraction Method : Shake
Analysis Complete : 12-Jan-06
Analyst : P.Skelton

Lab ID	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	RL	TPHC Result (mg/kg)
6001001	910C	1.00	15.79	77.48	79	409	ND
6001002	910E	1.00	15.73	76.37	80	416	ND
6001003	910W	1.00	15.19	78.22	81	421	ND
6001004	Dupe	1.00	15.56	77.39	80	415	ND
METHOD BLANK	MB-01110601	1.00	15.00	100.00	64	333	ND

ND = Not Detected

MDL = Method Detection Limit

RL = Reporting Limits

Note : The TPHC result between the MDL and RL are considered an estimated value

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LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

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

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

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

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

Laboratory Manager or Environmental Consultant's Signature

Date: 1/27/06

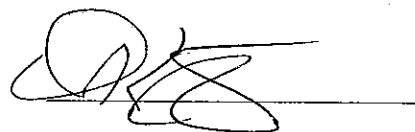
Laboratory Certification # 13461

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

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Laboratory Authentication Statement

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

A handwritten signature in black ink, appearing to read 'DKW', is written over a horizontal line.

Daniel K. Wright
Laboratory Manager