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
FT. MONMOUTH, NJ 07703

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

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

Local Geology

Based on the regional geologic map (Jablonski, 1968), the Cretaceous age Red Bank and Tinton Sands outcrop at the 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.

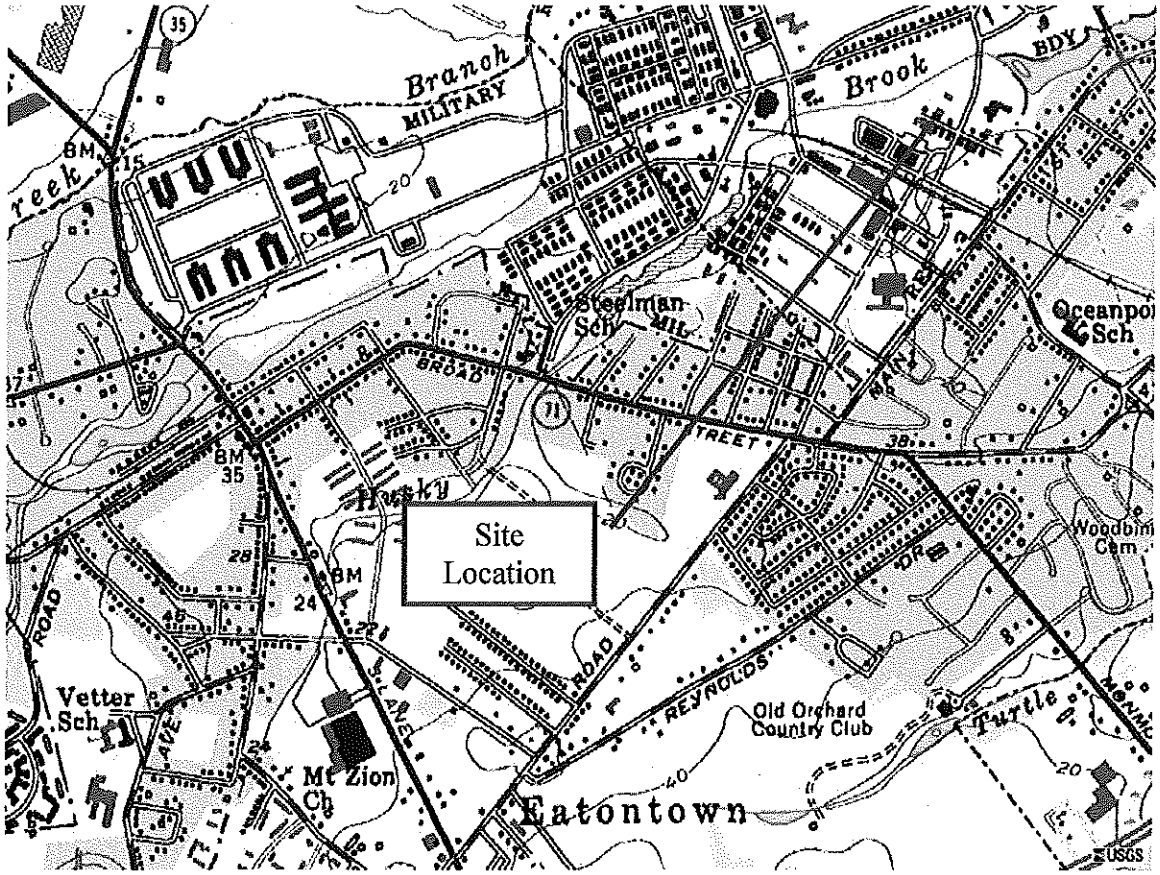
3.3 CONCLUSIONS AND RECOMMENDATIONS

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



SCALE 1:24,000

1 0.5 0 1 MILE

1 0.5 0 1 KILOMETER

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

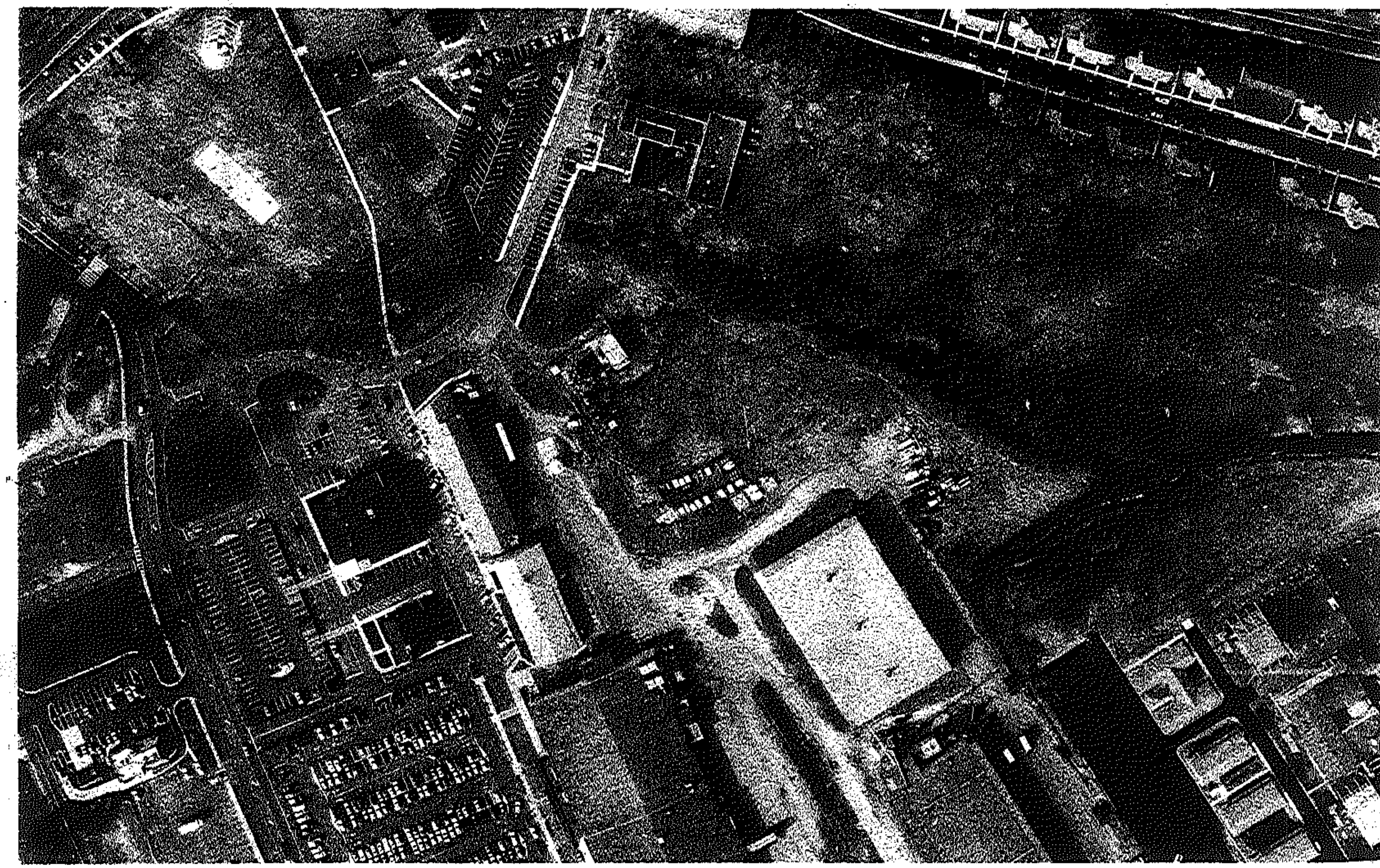
CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

N

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

FIGURE 1

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



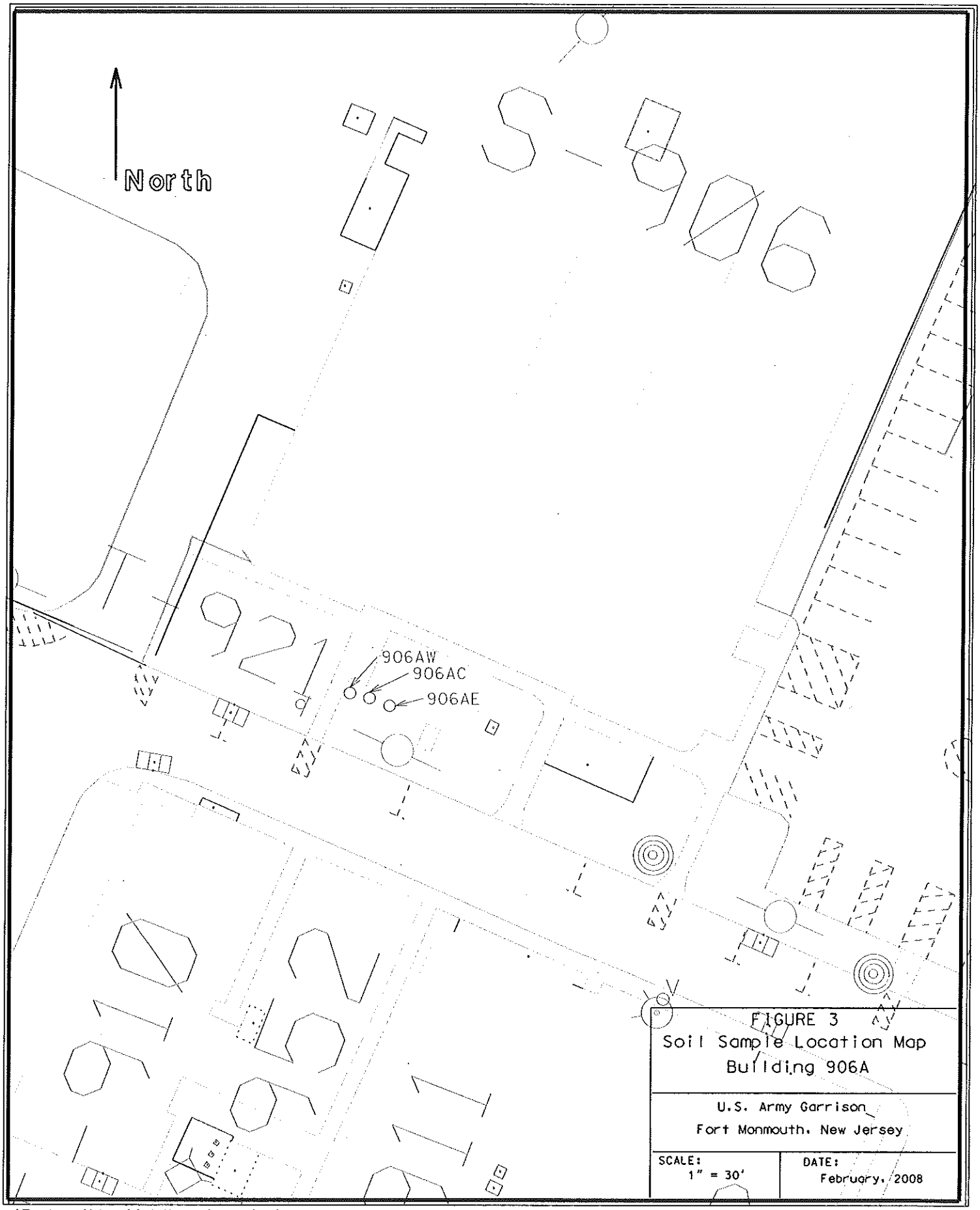
Robinson Aerial Surveys, Inc.
43 Sparta Ave., Newton, N.J. 07860
Phone (201) 383-3511

DIRECTORATE OF ENGINEERING & HOUSING
Fort Monmouth, New Jersey
"AN ARMY COMMUNITY OF EXCELLENCE"

Photo Date 12/20/91 Flying Height 3000' Focal Length 6"	1" = 50' PHOTO MAP Fort Monmouth Area (MAIN POST)

UST # 0081533 - 146 Drawing No. 864, 865	Scale: 1" = 50'	Sheet 17 of 35

NJ DEP copy
DO NOT DUPLICATE



...\Projects\bim_MainPost.dgn 2/29/2008 2:17:24 PM

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	MATRIX	TPH RESULTS
			(in feet)		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

Let's preserve our earth

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
CN 029
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 imprisionment."

Signature: James Ott

Name (print or type): JAMES OTT
Acting Director
Dir, Engineering and Housing

Title: _____ 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 ALL 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. 58, 88, 95, 104, 110, 113, (146), 148, 158, 163.

Check off the following items as appropriate for the site.

✓ The UST facility is only regulated by State law, therefore a site assessment is not mandatory.

____ 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

22 NOV 1991
Date

(Signature)

JAMES OTT
Acting Director
Div, Engineering and Housing

(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 #NJD084044064).

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 corrision 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

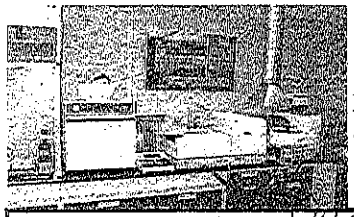
ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
VOA+15, BN+15, TPHC, % SOLIDS

ENCLOSURE:
CHAIN OF CUSTODY
RESULTS

1-27-06
Daniel Wright/Date
Laboratory Director

Table of Contents

CHAIN OF CUSTODY



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: John McCarthy
Phone: X2 6224
( )DERA ( )OMA ( )Other:_____

Project No: 06-34880
Location: 906A (Former UST)

Samplers Name / Company: George Boyce TVS

LIMS/Work Order #	Sample Location	Date	Time	Sample Type	# bottles	Analysis Parameters: TPH	VO+10	BN+15					Comments: Remarks / Preservation Method
60007 01	906AC 3.5-4.0	1/4/06	1344	Soil	2	X							4397 across water
02	906AC 6.0-6.5		1354		2	X							4398 Stained soil
03	906AE 3.5-4.0		1418		2	X							4399 Across Water
04	906AW 6.0-6.5		1435	↓	2	X							4400
05	906AC	↓	1502	Ag	3		X	X					

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
George Boyce	1-4-06 1600				
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, (✓)Reduced, ( )Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: (✓)Standard 3 wks, ( )Rush___Days, ( )ASAP Verbal ___Hrs.

Remarks: VO+10 on 25% >1000 PPM TPH
Shared TRIP with 63975 1/20/06

print legibly

COC.XLS10/11/2005

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: T. Deguia Sign: T. Deguia
(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: 1/4/06
Requested by: *(print)* [illegible]
Turnaround Time: 5td

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

1.	Were the correct containers and/or preservatives used for the tests indicated?	Yes	No
2.	Was sufficient amount of sample sent for the tests indicated?	Yes	No
3.	Are samples within holding time for new analysis?	Yes	No
4.	Was the change documented in the receipt logbook?	Yes	No

Received by: *(print)* _____ Sign: _____

Sample ID#	New Analysis	Sample ID#	New Analysis
6000702	VOA + 15		
03			
Also run Methanol TB		600060	

Comments: _____

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 as 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

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

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 (If not met, list those compounds and their recoveries, which fall outside the acceptable range)	NO
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	

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

Indicate
Yes, No, N/A

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

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

11. Extraction Holding Time Met — 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	yes
2.	Method Blank Contamination – If yes, list the sample and the corresponding concentrations in each blank	NO
3.	Matrix Spike Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range)	yes
4.	Duplicate Results Summary Meet Criteria	yes
5.	IR Spectra submitted for standards, blanks and samples	NA
6.	Chromatograms submitted for standards, blanks and samples if GC fingerprinting was conducted	yes
7.	Analysis holding time met (If not met, list number of days exceeded for each sample)	yes

Additional comments: _____

Laboratory Manager: _____ Date: 1-27-06

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	Sample Name	MB 11Jan2006
Operator	Skelton	Field ID	MB 11Jan2006
Date Acquired	11 Jan 2006 8:48 pm	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.: 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:
(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	12.47	4	JN

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

Data File	VB021320.D	Sample Name	6000606
Operator	Skelton	Field ID	Trip Blank
Date Acquired	11 Jan 2006 10:10 pm	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

C:\HPCHEM\Custrpt\Volatile\FY2006\624FY06.CRT

000019

1/19/2006 1:55 PM

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: 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/L

Number 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	Sample Name	6000705
Operator	Skelton	Field ID	906AC
Date Acquired	11 Jan 2006 10:51 pm	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

C:\HPCHEM\Custrpt\Volatile\FY2006\624FY06.CRT

000021

1/19/2006 1:55 PM

1E

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/L

Number 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

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: FMETL NJDEP#: 13461

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

Lab File ID: VB021310.D BFB Injection Date: 1/11/2006

Instrument ID: GCMS#2 BFB Injection Time: 15:23

GC Column: RTX502.2 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.0
75	30.0 - 66.0% of mass 95	56.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	73.1
175	4.0 - 9.0% of mass 174	5.4 (7.4)1
176	93.0 - 101.0% of mass 174	71.0 (97.2)1
177	5.0 - 9.0% of mass 176	4.7 (6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	FIELD ID:	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	VSTD010	VB021311.D	1/11/2006	16:01
02	VSTD005	VSTD005	VB021312.D	1/11/2006	16:42
03	VSTD002	VSTD002	VB021313.D	1/11/2006	17:23
04	VSTD050	VSTD050	VB021314.D	1/11/2006	18:04
05	VSTD020	VSTD020	VB021315.D	1/11/2006	18:45
06	MB 11JAN2006	MB 11JAN2006	VB021318.D	1/11/2006	20:48
07	637C	6000605	VB021319.D	1/11/2006	21:29
08	TRIP BLANK	6000606	VB021320.D	1/11/2006	22:10

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: FMETL NJDEP#: 13461

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

Lab File ID: VB021310.D BFB Injection Date: 1/11/2006

Instrument ID: GCMS#2 BFB Injection Time: 15:23

GC Column: RTX502.2 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.0
75	30.0 - 66.0% of mass 95	56.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	73.1
175	4.0 - 9.0% of mass 174	5.4 (7.4)1
176	93.0 - 101.0% of mass 174	71.0 (97.2)1
177	5.0 - 9.0% of mass 176	4.7 (6.7)2

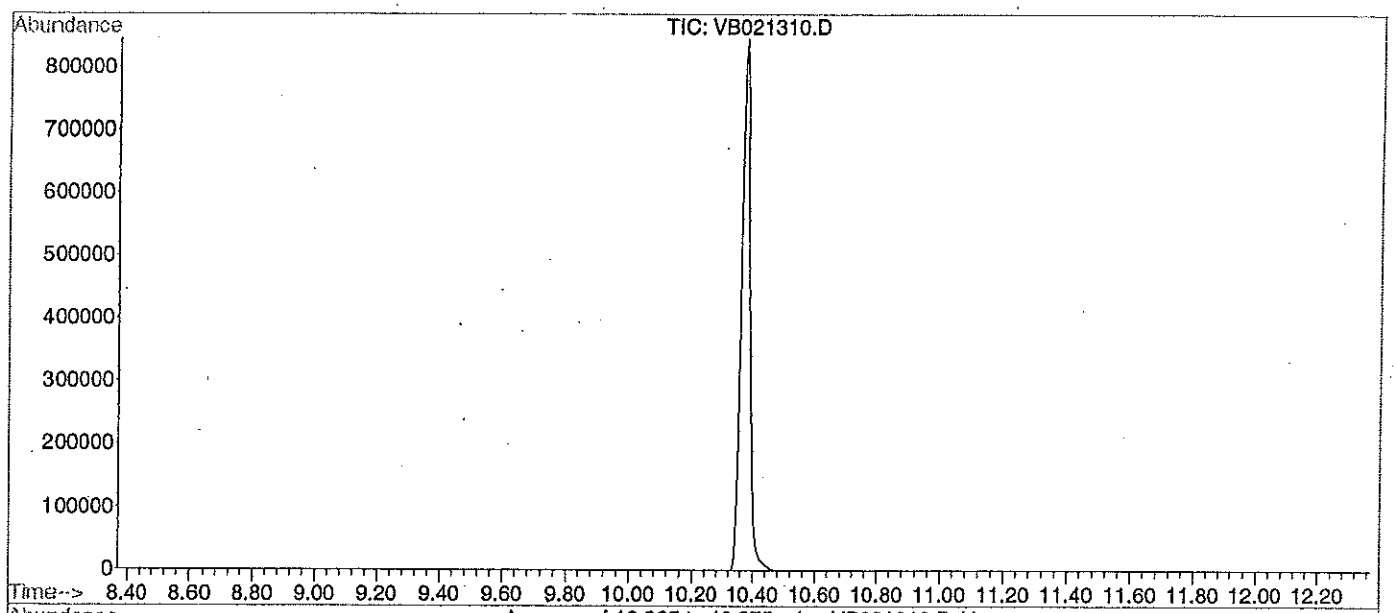
1-Value is % mass 174 2-Value is % mass 176

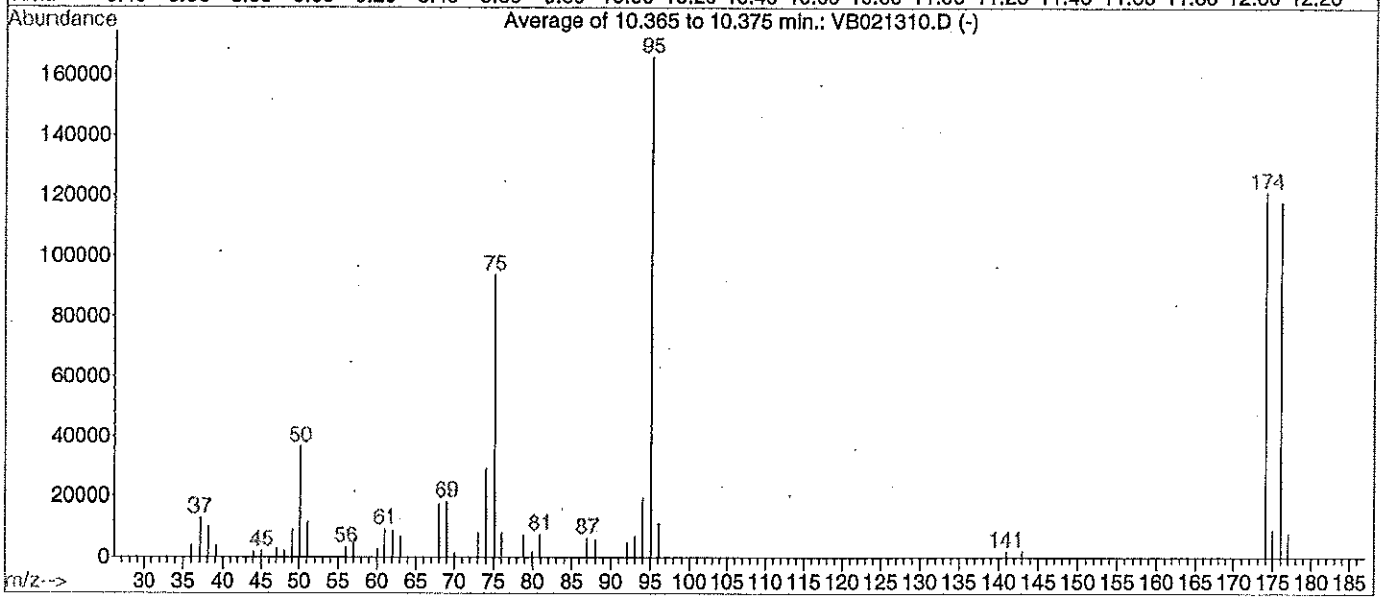
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	FIELD ID:	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	VSTD010	VB021311.D	1/11/2006	16:01
02	VSTD005	VSTD005	VB021312.D	1/11/2006	16:42
03	VSTD002	VSTD002	VB021313.D	1/11/2006	17:23
04	VSTD050	VSTD050	VB021314.D	1/11/2006	18:04
05	VSTD020	VSTD020	VB021315.D	1/11/2006	18:45
06	MB 11JAN2006	MB 11JAN2006	VB021318.D	1/11/2006	20:48
07	906AC	6000705	VB021321.D	1/11/2006	22:51

Data File : C:\HPCHEM\1\DATA\060111\VB021310.D
Acq On : 11 Jan 2006 3:23 pm
Sample : BFB Tune
Misc : BFB Tune
MS Integration Params: TBA.P
Method : C:\HPCHEM\1\METHODS\M2VO222.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP

Vial: 1
Operator: Skelton
Inst : GC/MS Ins
Multiplr: 1.00





AutoFind: Scans 148, 149, 150; Background Corrected with Scan 139

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.0	36501	PASS
75	95	30	60	56.5	93693	PASS
95	95	100	100	100.0	165909	PASS
96	95	5	9	6.6	10963	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	73.1	121272	PASS
175	174	5	9	7.4	8945	PASS
176	174	95	101	97.2	117840	PASS
177	176	5	9	6.7	7849	PASS

Method : C:\HPCHEM\1\METHODS\M2VO222.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Thu Jan 12 07:46:23 2006
Response via : Initial Calibration

Calibration Files
50 =VB021314.D 20 =VB021315.D 10 =VB021311.D
5 =VB021312.D 2 =VB021313.D

		Compound	50	20	10	5	2	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------						
2)	tm	Acrolein	0.114	0.097	0.090	0.089	0.086	0.095	12.03
3)	tm	Acrylonitrile	0.983	0.892	0.870	0.859	0.795	0.880	7.71
4)	tm	tert-Butyl alcohol	0.126	0.120	0.102	0.107	0.111	0.113	8.63
5)	tm	Methyl-tert-Butyl eth	6.128	5.255	4.809	4.574	4.318	5.017	14.16
6)	tm	Di-isopropyl ether	2.175	1.916	1.796	1.595	1.313	1.759	18.53
7)	Tm	Dichlorodifluorometha	2.855	2.629	2.942	3.022	3.056	2.901	5.89
8)	TPm	Chloromethane	3.281	3.128	3.291	3.300	3.259	3.252	2.18
9)	TCm	Vinyl Chloride	3.329	3.177	3.278	3.343	3.254	3.276	2.03
10)	Tm	Bromomethane	1.744	1.757	1.801	1.855	1.892	1.810	3.47
11)	Tm	Chloroethane	2.065	2.150	2.155	2.199	2.158	2.146	2.28
12)	Tm	Trichlorofluoromethan	5.535	5.256	5.309	5.478	5.291	5.374	2.31
13)	MC	1,1-Dichloroethene	3.946	3.648	3.380	3.403	3.180	3.512	8.38
14)	Tm	Acetone	0.613	0.581	0.819	0.817	1.106	0.787	26.67
15)	Tm	Carbon Disulfide	8.190	7.593	7.332	7.205	6.851	7.434	6.72
16)	Tm	Methylene Chloride	2.691	2.604	2.606	2.673	2.758	2.666	2.42
17)	Tm	trans-1,2-Dichloroeth	3.739	3.509	3.296	3.272	3.062	3.376	7.63
18)	TPm	1,1-Dichloroethane	4.846	4.570	4.379	4.380	4.112	4.457	6.09
19)	Tm	Vinyl Acetate	1.945	1.596	1.424	1.353	1.275	1.519	17.53
20)	Tm	2-Butanone	0.887	0.759	0.809	0.769	0.677	0.780	9.85
21)	Tm	cis-1,2-Dichloroethen	3.912	3.634	3.404	3.265	3.055	3.454	9.59
22)	TCm	Chloroform	4.781	4.572	4.509	4.530	4.395	4.557	3.10
23)	Tm	1,1,1-Trichloroethane	4.196	3.871	3.547	3.461	3.165	3.648	10.87
24)	Tm	Carbon Tetrachloride	3.574	3.235	2.986	3.002	2.826	3.125	9.30
25)	S	1,2-Dichloroethane-d4	3.472	3.308	3.333	3.287	3.217	3.324	2.82
26)	I	1,4-Difluorobenzene	----------ISTD----------						
27)	TM	Benzene	1.485	1.387	1.370	1.352	1.271	1.373	5.61
28)	Tm	1,2-Dichloroethane	0.508	0.485	0.500	0.494	0.485	0.494	2.03
29)	TM	Trichloroethene	0.362	0.334	0.325	0.317	0.300	0.328	7.06
30)	TCm	1,2-Dichloropropane	0.363	0.341	0.331	0.328	0.311	0.335	5.68
31)	Tm	Bromodichloromethane	0.471	0.432	0.422	0.402	0.390	0.423	7.42
32)	Tm	2-Chloroethyl vinyl e	0.218	0.183	0.163	0.149	0.138	0.170	18.59
33)	Tm	cis-1,3-Dichloroprope	0.596	0.525	0.485	0.441	0.396	0.489	15.81
34)	Tm	4-Methyl-2-Pentanone	0.092	0.079	0.068	0.070	0.069	0.076	13.65
35)	S	Toluene-d8	1.354	1.249	1.219	1.161	1.052	1.207	9.25
36)	TCM	Toluene	1.628	1.523	1.494	1.450	1.302	1.479	8.03
37)	I	Chlorobenzene-d5	----------ISTD----------						
38)	Tm	trans-1,3-Dichloropro	2.033	1.747	1.611	1.434	1.259	1.617	18.33
39)	Tm	1,1,2-Trichloroethane	1.133	1.052	1.068	1.078	1.023	1.071	3.80
40)	Tm	Tetrachloroethene	1.445	1.344	1.322	1.337	1.271	1.344	4.73
41)	Tm	2-Hexanone	0.547	0.476	0.437	0.430	0.460	0.470	9.91
42)	Tm	Dibromochloromethane	1.175	1.036	1.009	0.969	0.888	1.015	10.35
43)	TMP	Chlorobenzene	3.763	3.513	3.556	3.585	3.548	3.593	2.74
44)	TCm	Ethylbenzene	6.710	6.199	6.077	5.918	5.621	6.105	6.58
45)	Tm	m+p-Xylenes	2.590	2.314	2.244	2.137	1.901	2.237	11.25
46)	Tm	o-Xylene	5.473	4.968	4.703	4.262	3.652	4.612	15.02
47)	Tm	Styrene	3.965	3.483	3.232	2.946	2.449	3.215	17.69
48)	TPm	Bromoform	0.771	0.672	0.631	0.622	0.592	0.658	10.59
49)	S	Bromofluorobenzene	1.924	1.782	1.700	1.568	1.524	1.699	9.55
50)	TPm	1,1,2,2-Tetrachloroet	1.211	1.188	1.111	1.159	1.145	1.163	3.31
51)	Tm	1,3-Dichlorobenzene	2.378	2.286	2.129	2.096	1.996	2.177	7.04
52)	Tm	1,4-Dichlorobenzene	2.550	2.470	2.286	2.241	2.057	2.321	8.40
53)	Tm	1,2-Dichlorobenzene	2.150	2.162	1.937	1.976	1.895	2.024	6.12
54)	Tm	Naphthalene	0.646	0.920	0.604	0.884	1.154	0.842	26.60

(#) = Out of Range

4A

FIELD ID:

VOLATILE METHOD BLANK SUMMARY

MB 11Jan2006

Lab Name: FMETL NJDEP#: 13461

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

Lab File ID: VB021318.D Lab Sample ID: MB 11Jan2006

Date Analyzed: 1/11/2006 Time Analyzed: 20:48

GC Column: RTX502. ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS#2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	FIELD ID:	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	637C	6000605	VB021319.D	21:29
02	TRIP BLANK	6000606	VB021320.D	22:10

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

FIELD ID: MB 11Jan2006

Lab Name: FMETL NJDEP#: 13461

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

Lab File ID: VB021318.D Lab Sample ID: MB 11Jan2006

Date Analyzed: 1/11/2006 Time Analyzed: 20:48

GC Column: RTX502. ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS#2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	FIELD ID:	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	906AC	6000705	VB021321.D	22:51

COMMENTS:

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: FMETL NJDEP#: 13461

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

	FIELD ID:	SMC1 DCE #	SMC2 TOL #	SMC3 BFB #	TOT OUT
01	MB 11JAN2006	82	90	86	0
02	637C	83	91	87	0
03	TRIP BLANK	83	91	87	0

QC LIMITS

SMC1	DCE	=	1,2-Dichloroethane-d4	(70-120)
SMC2	TOL	=	Toluene-d8	(70-120)
SMC3	BFB	=	Bromofluorobenzene	(70-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: FMETL NJDEP#: 13461

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

	FIELD ID:	SMC1 DCE #	SMC2 TOL #	SMC3 BFB #	TOT OUT
01	MB 11JAN2006	82	90	86	0
02	906AC	83	90	91	0

QC LIMITS

SMC1	DCE	=	1,2-Dichloroethane-d4	(70-120)
SMC2	TOL	=	Toluene-d8	(70-120)
SMC3	BFB	=	Bromofluorobenzene	(70-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

Method : C:\HPCHEM\1\METHODS\M2VO222.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Thu Jan 12 07:46:23 2006
Response via : Initial Calibration

Non-Spiked Sample: VB021335.D

	Spike Sample	Spike Duplicate Sample
File ID :	VB021336.D	VB021337.D
Sample :	6002305 MS	6002305 MSD
Acq Time:	12 Jan 2006 9:06 am	12 Jan 2006 9:47 am

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
Acrolein	0.0	50	46	46	93	92	1	20	59-137
Acrylonitrile	0.0	50	49	49	97	98	1	20	68-127
tert-Butyl alcohol	0.0	100	84	87	84	87	3	20	17-167
Methyl-tert-Butyl et	0.0	10	9	9	88	90	2	20	74-116
Di-isopropyl ether	0.0	10	9	9	91	94	3	20	77-117
Dichlorodifluorometh	0.0	10	7	8	72	76	6	20	50-131
Chloromethane	0.0	10	8	9	80	86	7	20	65-123
Vinyl Chloride	0.0	10	8	8	78	82	5	20	63-125
Bromomethane	0.0	10	8	9	80	86	8	20	72-118
Chloroethane	0.0	10	9	9	86	90	6	20	64-127
Trichlorofluorometha	0.0	10	8	8	79	84	5	20	60-122
1,1-Dichloroethene	0.0	10	8	8	77	83	8	20	68-116
Acetone	0.0	10	8	8	76	77	1	20	2-148
Carbon Disulfide	0.0	10	8	8	79	84	7	20	69-117
Methylene Chloride	0.0	10	9	10	90	95	6	20	79-110
trans-1,2-Dichloroet	0.0	10	8	9	80	86	7	20	73-113
1,1-Dichloroethane	0.0	10	9	9	88	93	5	20	77-112
Vinyl Acetate	0.0	10	9	9	86	88	2	20	52-127
2-Butanone	0.0	10	9	9	86	85	1	20	12-162
cis-1,2-Dichloroethe	0.0	10	9	9	87	92	5	20	74-114
Chloroform	0.0	10	9	9	89	94	6	20	79-110
1,1,1-Trichloroethan	0.0	10	8	8	79	84	7	20	73-114
Carbon Tetrachloride	0.0	10	8	8	78	84	7	20	69-115
Benzene	0.0	10	9	9	86	91	5	20	78-112
1,2-Dichloroethane	0.0	10	9	10	93	95	2	20	78-115
Trichloroethene	0.0	10	8	9	82	86	5	20	74-114
1,2-Dichloropropane	0.0	10	9	9	88	93	5	20	77-113
Bromodichloromethane	0.0	10	9	9	88	92	5	20	77-113
2-Chloroethyl vinyl	0.0	10	8	9	84	86	2	20	67-117
cis-1,3-Dichloroprop	0.0	10	8	9	82	87	5	20	75-116
4-Methyl-2-Pentanone	0.0	10	9	9	87	88	1	20	33-146
Toluene	0.0	10	9	9	89	93	5	20	80-113
trans-1,3-Dichloropr	0.0	10	8	9	83	86	3	20	75-117
1,1,2-Trichloroethan	0.0	10	9	10	94	95	2	20	78-116
Tetrachloroethene	0.0	10	8	8	80	83	4	20	73-115
2-Hexanone	0.0	10	8	8	80	83	3	20	30-147
Dibromochloromethane	0.0	10	9	9	91	93	3	20	77-115
Chlorobenzene	0.0	10	9	9	88	92	4	20	78-112
Ethylbenzene	0.0	10	8	9	85	90	5	20	77-113
m+p-Xylenes	0.0	20	17	18	85	89	4	20	76-115
o-Xylene	0.0	10	9	9	86	91	5	20	74-118
Styrene	0.0	10	9	9	89	92	3	20	77-116
Bromoform	0.0	10	9	9	90	91	1	20	72-116
1,1,2,2-Tetrachloroe	0.0	10	9	9	92	94	2	20	73-120
1,3-Dichlorobenzene	0.0	10	8	9	84	89	5	20	75-114
1,4-Dichlorobenzene	0.0	10	9	9	87	92	6	20	75-116
1,2-Dichlorobenzene	0.0	10	9	9	86	91	6	20	76-115
Naphthalene	0.0	10	5	6	52#	63#	19	20	70-120

- Fails Limit Check

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: FMETL NJDEP#: 13461

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

Lab File ID (Standard): VB021311.D Date Analyzed: 1/11/2006

Instrument ID: GCMS#2 Time Analyzed: 16:01

GC Column: RTX502.2 ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1BCM AREA #	RT #	IS2DFB AREA #	RT #	IS3CBZ AREA #	RT #
	12 HOUR STD	477172	16.43	3603875	19.62	939180	25.65
	UPPER LIMIT	954344	16.93	7207750	20.12	1878360	26.15
	LOWER LIMIT	238586	15.93	1801938	19.12	469590	25.15
	FIELD ID:						
01	MB 11JAN2006	457185	16.43	3387692	19.63	892840	25.65
02	637C	451875	16.43	3328281	19.63	881634	25.66
03	TRIP BLANK	450293	16.43	3314080	19.63	878455	25.66

IS1 BCM = Bromochloromethane
IS2 DFB = 1,4-Difluorobenzene
IS3 CBZ = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: FMETL NJDEP#: 13461

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

Lab File ID (Standard): VB021311.D Date Analyzed: 1/11/2006

Instrument ID: GCMS#2 Time Analyzed: 16:01

GC Column: RTX502.2 ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1BCM AREA #	RT #	IS2DFB AREA #	RT #	IS3CBZ AREA #	RT #
	12 HOUR STD	477172	16.43	3603875	19.62	939180	25.65
	UPPER LIMIT	954344	16.93	7207750	20.12	1878360	26.15
	LOWER LIMIT	238586	15.93	1801938	19.12	469590	25.15
	FIELD ID:						
01	MB 11JAN2006	457185	16.43	3387692	19.63	892840	25.65
02	906AC	447930	16.44	3400184	19.63	902392	25.65

IS1 BCM = Bromochloromethane
IS2 DFB = 1,4-Difluorobenzene
IS3 CBZ = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

Data File : C:\HPCHEM\1\DATA\060111\VB021318.D Vial: 8
Acq On : 11 Jan 2006 8:48 pm Operator: Skelton
Sample : MB 11Jan2006 Inst : GC/MS Ins
Misc : MB 11Jan2006 Multiplr: 1.00
MS Integration Params: TBA.P
Quant Time: Jan 12 7:49 2006 Quant Results File: M2VO222.RES

Quant Method : C:\HPCHEM\1\METHODS\M2VO222.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Thu Jan 12 07:46:23 2006
Response via : Initial Calibration
DataAcq Meth : M2VO222

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	16.43	128	457185	30.00	ug/L	0.00
26) 1,4-Difluorobenzene	19.63	114	3387692	30.00	ug/L	0.00
37) Chlorobenzene-d5	25.65	119	892840	30.00	ug/L	0.00
System Monitoring Compounds						
25) 1,2-Dichloroethane-d4	18.47	65	1247698	24.63	ug/L	0.00
Spiked Amount 30.000	Range 70 - 120		Recovery = 82.10%			
35) Toluene-d8	22.58	98	3672657	26.94	ug/L	0.00
Spiked Amount 30.000	Range 70 - 120		Recovery = 89.80%			
49) Bromofluorobenzene	28.00	95	1312101	25.94	ug/L	0.00
Spiked Amount 30.000	Range 70 - 120		Recovery = 86.47%			
Target Compounds						Qvalue

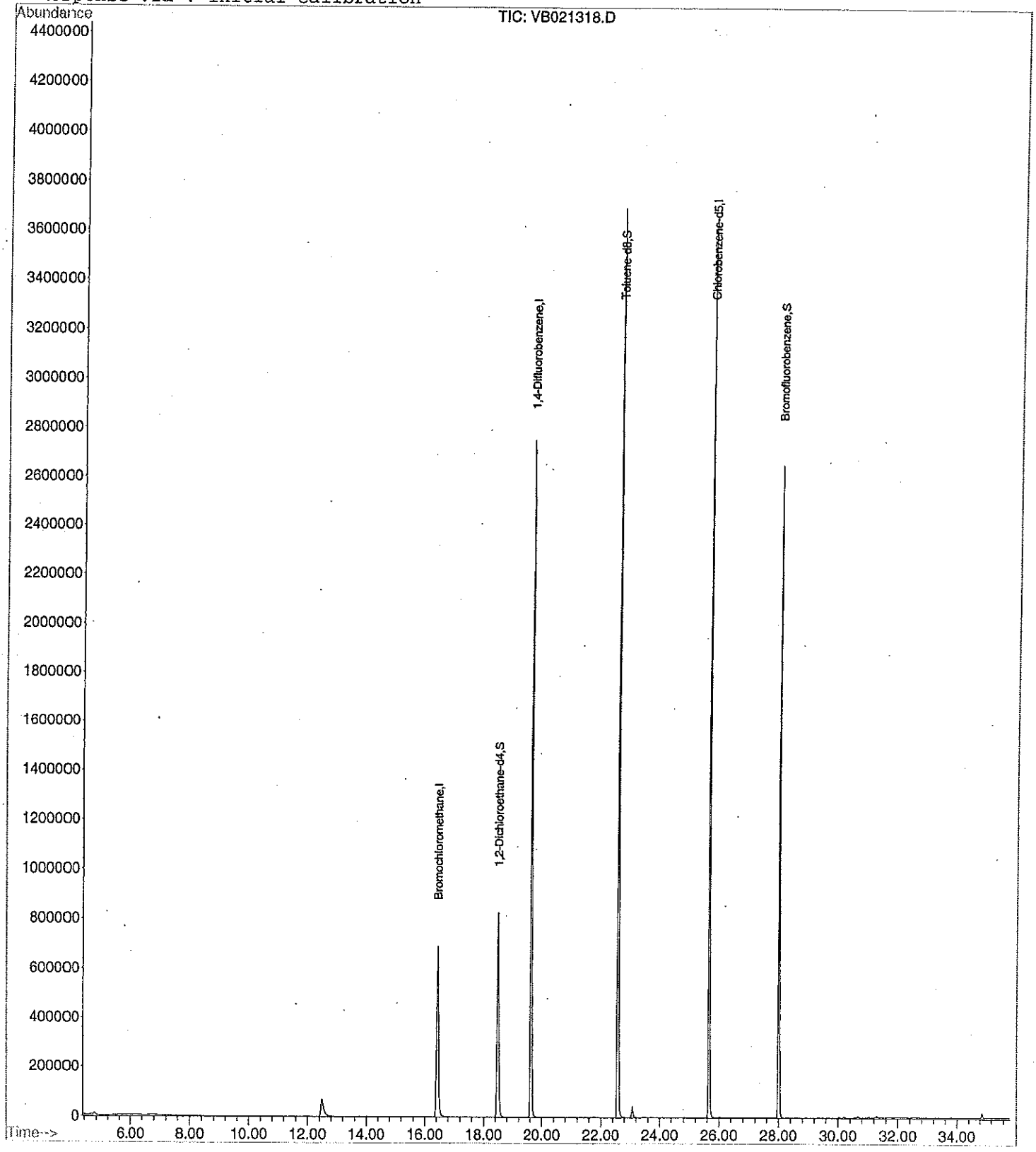
(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\060111\VB021318.D
Acq On : 11 Jan 2006 8:48 pm
Sample : MB 11Jan2006
Misc : MB 11Jan2006
MS Integration Params: TBA.P
Quant Time: Jan 12 7:49 2006

Vial: 8
Operator: Skelton
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: M2VO222.RES

Method : C:\HPCHEM\1\METHODS\M2VO222.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Thu Jan 12 07:46:23 2006
Response via : Initial Calibration



000035

Data File : C:\HPCHEM\1\DATA\060111\VB021320.D Vial: 10
Acq On : 11 Jan 2006 10:10 pm Operator: Skelton
Sample : 6000606 Inst : GC/MS Ins
Misc : Trip Blank Multiplr: 1.00
MS Integration Params: TBA.P
Quant Time: Jan 12 7:46 2006 Quant Results File: M2VO222.RES

Quant Method : C:\HPCHEM\1\METHODS\M2VO222.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Thu Jan 12 07:46:23 2006
Response via : Initial Calibration
DataAcq Meth : M2VO222

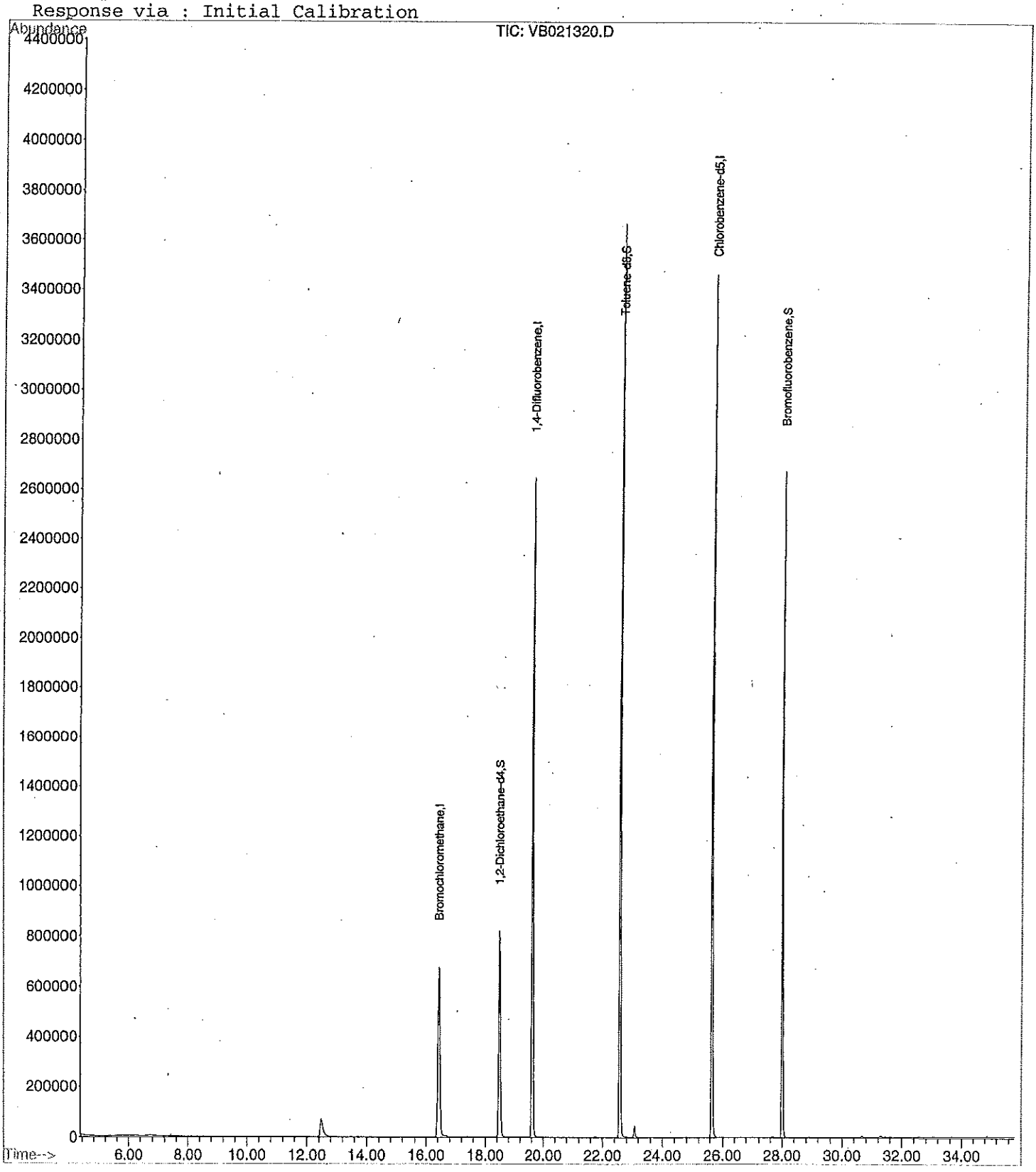
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	16.43	128	450293	30.00	ug/L	0.00
26) 1,4-Difluorobenzene	19.63	114	3314080	30.00	ug/L	0.00
37) Chlorobenzene-d5	25.66	119	878455	30.00	ug/L	0.00
System Monitoring Compounds						
25) 1,2-Dichloroethane-d4	18.47	65	1246352	24.98	ug/L	0.00
Spiked Amount 30.000	Range 70 - 120		Recovery = 83.27%			
35) Toluene-d8	22.57	98	3626845	27.20	ug/L	0.00
Spiked Amount 30.000	Range 70 - 120		Recovery = 90.67%			
49) Bromofluorobenzene	28.00	95	1293796	26.00	ug/L	0.00
Spiked Amount 30.000	Range 70 - 120		Recovery = 86.67%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\060111\VB021320.D Vial: 10
Acq On : 11 Jan 2006 10:10 pm Operator: Skelton
Sample : 6000606 Inst : GC/MS Ins
Misc : Trip Blank Multiplr: 1.00
MS Integration Params: TBA.P
Quant Time: Jan 12 7:46 2006 Quant Results File: M2VO222.RES

Method : C:\HPCHEM\1\METHODS\M2VO222.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Thu Jan 12 07:46:23 2006
Response via : Initial Calibration



000037

Data File : C:\HPCHEM\1\DATA\060111\VB021321.D Vial: 11
Acq On : 11 Jan 2006 10:51 pm Operator: Skelton
Sample : 6000705 Inst : GC/MS Ins
Misc : 906AC Multiplr: 1.00
MS Integration Params: TBA.P
Quant Time: Jan 12 7:47 2006 Quant Results File: M2VO222.RES

Quant Method : C:\HPCHEM\1\METHODS\M2VO222.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Thu Jan 12 07:46:23 2006
Response via : Initial Calibration
DataAcq Meth : M2VO222

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	16.44	128	447930	30.00	ug/L	0.00
26) 1,4-Difluorobenzene	19.63	114	3400184	30.00	ug/L	0.00
37) Chlorobenzene-d5	25.65	119	902392	30.00	ug/L	0.00
System Monitoring Compounds						
25) 1,2-Dichloroethane-d4	18.47	65	1241826	25.02	ug/L	0.00
Spiked Amount 30.000	Range 70 - 120		Recovery = 83.40%			
35) Toluene-d8	22.57	98	3683698	26.93	ug/L	0.00
Spiked Amount 30.000	Range 70 - 120		Recovery = 89.77%			
49) Bromofluorobenzene	28.00	95	1389266	27.18	ug/L	0.00
Spiked Amount 30.000	Range 70 - 120		Recovery = 90.60%			
Target Compounds						Qvalue
44) Ethylbenzene	25.72	91	865653	4.71	ug/L	99
45) m+p-Xylenes	26.01	106	70702	1.05	ug/L	99
46) o-Xylene	26.84	91	299933	2.16	ug/L	99

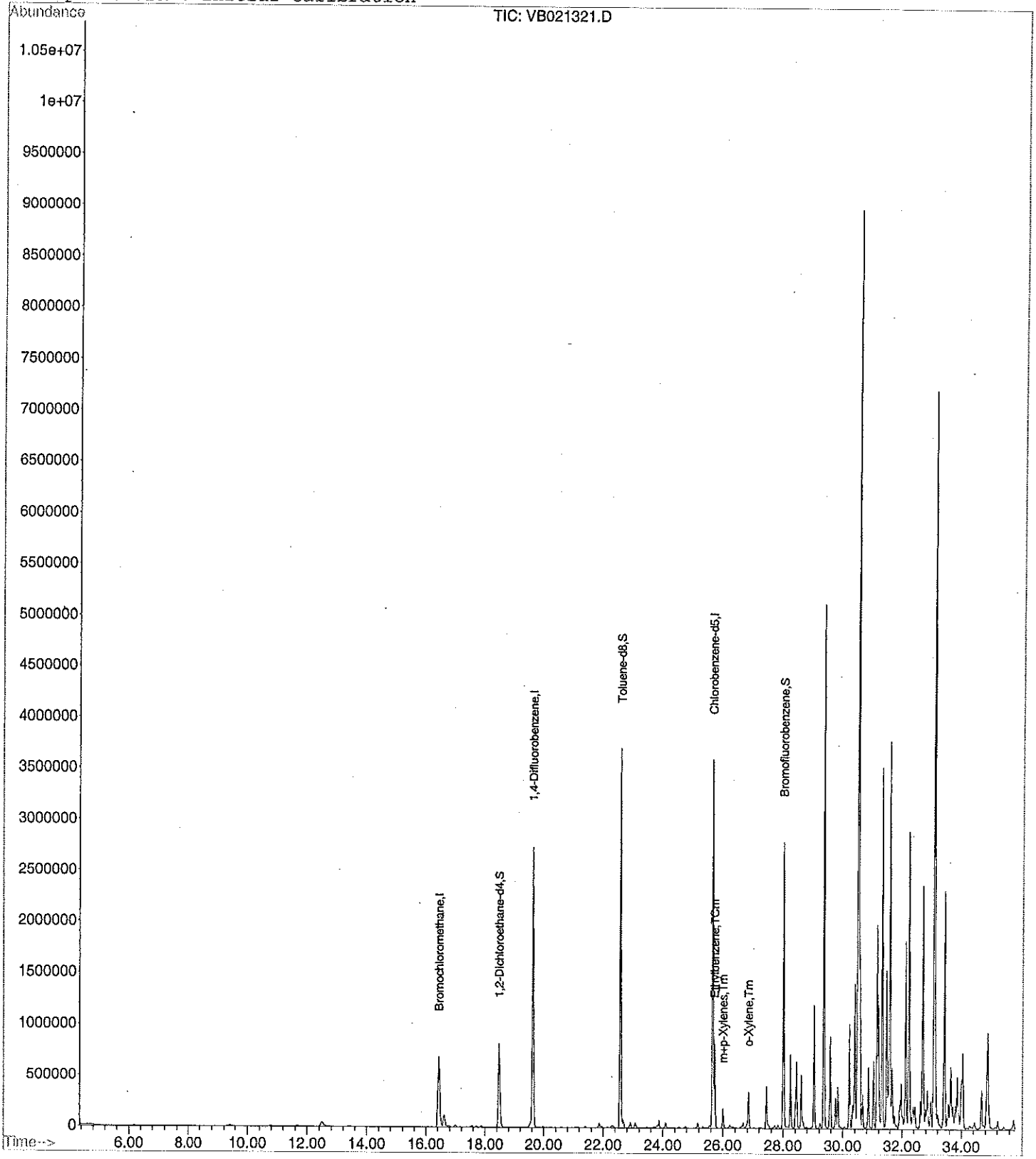
(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\060111\VB021321.D
Acq On : 11 Jan 2006 10:51 pm
Sample : 6000705
Misc : 906AC
MS Integration Params: TBA.P
Quant Time: Jan 12 7:47 2006

Vial: 11
Operator: Skelton
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: M2VO222.RES

Method : C:\HPCHEM\1\METHODS\M2VO222.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Thu Jan 12 07:46:23 2006
Response via : Initial Calibration



000039

VOLATILE ORGANICS (SOIL)

1A

FIELD ID:

VOLATILE ORGANICS ANALYSIS DATA SHEET

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)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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

FIELD ID:

VOLATILE ORGANICS ANALYSIS DATA SHEET

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

1E

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

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID: **Trip Blank**

Lab Name: FMETL NJDEP#: 13461

Project: 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)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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

FIELD ID: **Trip Blank**

VOLATILE ORGANICS ANALYSIS DATA SHEET

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

1E

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

Number TICs found: 2

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