U.S. Army Garrison
Fort Monmouth, New Jersey

Underground Storage Tank Closure Report

Main Post – former Building 614 Harmon Ave.

NJDEP UST Registration No. 81533-88

January 2008

UNDERGROUND STORAGE TANK REPORT

MAIN POST –FORMER BUILDING 614
NJDEP UST REGISTRATION NO. 81533-88

JANUARY 2008

PREPARED FOR:

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

PROJECT NO. 06-34880

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 14, 1990. The UST was located on the east side of former Building 614 in the Main Post area of Fort Monmouth. UST No. 81533-88 was a 1,000-gallon tank containing No. 2 heating oil. Appendix A includes a letter certifying that the UST was emptied, cleaned, removed and disposed of in accordance with the NJDEP guidelines.

Site Assessment

This site assessment was performed by 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 26, 2006, a Geoprobe was utilized to collect soil samples 614-N, 614-C, 614-S and 614-C (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 six and one half (6.5) 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 former UST No. 81533-88, 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 contained TPH concentrations of 3,257 mg/kg, 159 mg/kg and Not Detected.

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 former UST. A groundwater sample, analyzed for volatile organic analysis and semi-volatile organic analysis, did not contain any compounds that exceed the NJDEP Class II Ground Water Quality Criteria.

No Further Action is proposed in regard to the closure and site assessment of UST No. 81533-88 at former Building 614.

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. 81533-88, was closed at former Building 614 of 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 for residential use. The UST was installed in 1941 and removal was done on June 14, 1990.

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

Former Building 614, Harmon Ave., was located in the east-central portion (600 Area) of the Main Post of Fort Monmouth, as shown on Figure 1. UST No. 81533-88 was located on the east side of Building 614. Historical maps were used to determine the exact location of the former building and tank. A historical site map is provided on Figure 2.

1.2.1 Geological/Hydrogeological Setting

The following is a description of the geological/hydrogeological setting of the 600 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.

Former Building 614 was located approximately 1,300 feet south of Parkers Creek, the nearest water body, which flows into the Shrewsbury River. Based on the Main Post topography, the groundwater flow in the area of the Building 614 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: Dan Wright
  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 26, 2006, closure soil samples 614-N, 614-C, 614-S and 614-C (groundwater) were collected from a total of three (3) locations along the tank centerline bottom of the former UST. Groundwater was encountered at approximately six and one-half (6.5) 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 26, 2006, sample 614-C groundwater was collected from soil borehole 614-C to assess the groundwater quality in the location of the former tank. A temporary 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 26, 2006 to evaluate soil conditions in the location of the former 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 26, 2006 from UST 81533-88 contained concentrations of TPH below the NJDEP soil cleanup criteria. Soil samples 614N, 614C and 614S contained concentrations of 159 mg/kg, 3,257 mg/kg and Not Detected, respectively. Soil sample 614C, which was above the 1,000 mg/kg threshold for contingent VOA analysis, was further analyzed. Sample 614-C contained no compounds detected above the method detection limits for the contingent VOA analysis.

3.2 GROUNDWATER SAMPLING RESULTS

One groundwater sample was collected via temporary piezometer installed in soil borehole 614-C. There were no compounds detected above the method detection limits for the volatile organic analysis. Compounds detected above the method detection limits for the semi-volatile organic analysis were naphthalene at 4.2 ug/L, 2-Methylnaphthalene at 15.6 ug/L, acenaphthene at 2.5 ug/L, dibenzofuran at 0.78 ug/L, fluorene at 0.96 ug/L and phenathrene at 2.4 ug/L. These were below the regulatory levels of 300 ug/L for naphthalene, No Limit Established (NLE) for 2-Methylnaphthalene , 400 ug/L for acenaphthene, NLE for dibenzofuran, 300 ug/L for fluorene and NLE for phenathrene.

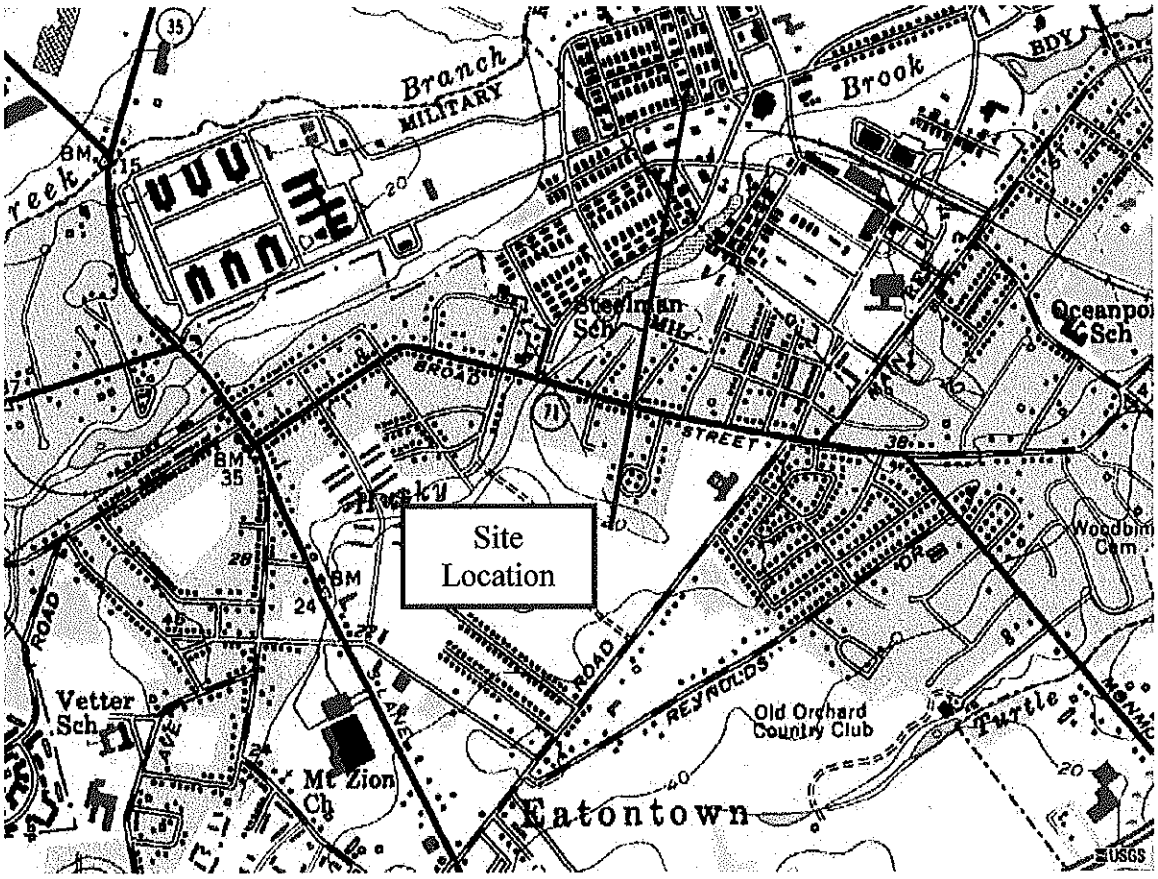
3.3 CONCLUSIONS AND RECOMMENDATIONS

The analytical results for all soil and groundwater samples collected from the UST closure assessment at UST No. 81533-88 were below the regulatory limit.

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 former UST No. 81533-88.

No Further Action is proposed in regard to the closure and site assessment of UST No. 81533-88 at former Building 614.

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
FORMER BUILDING 614
UST NO. 81533-88
FT. MONMOUTH, NJ

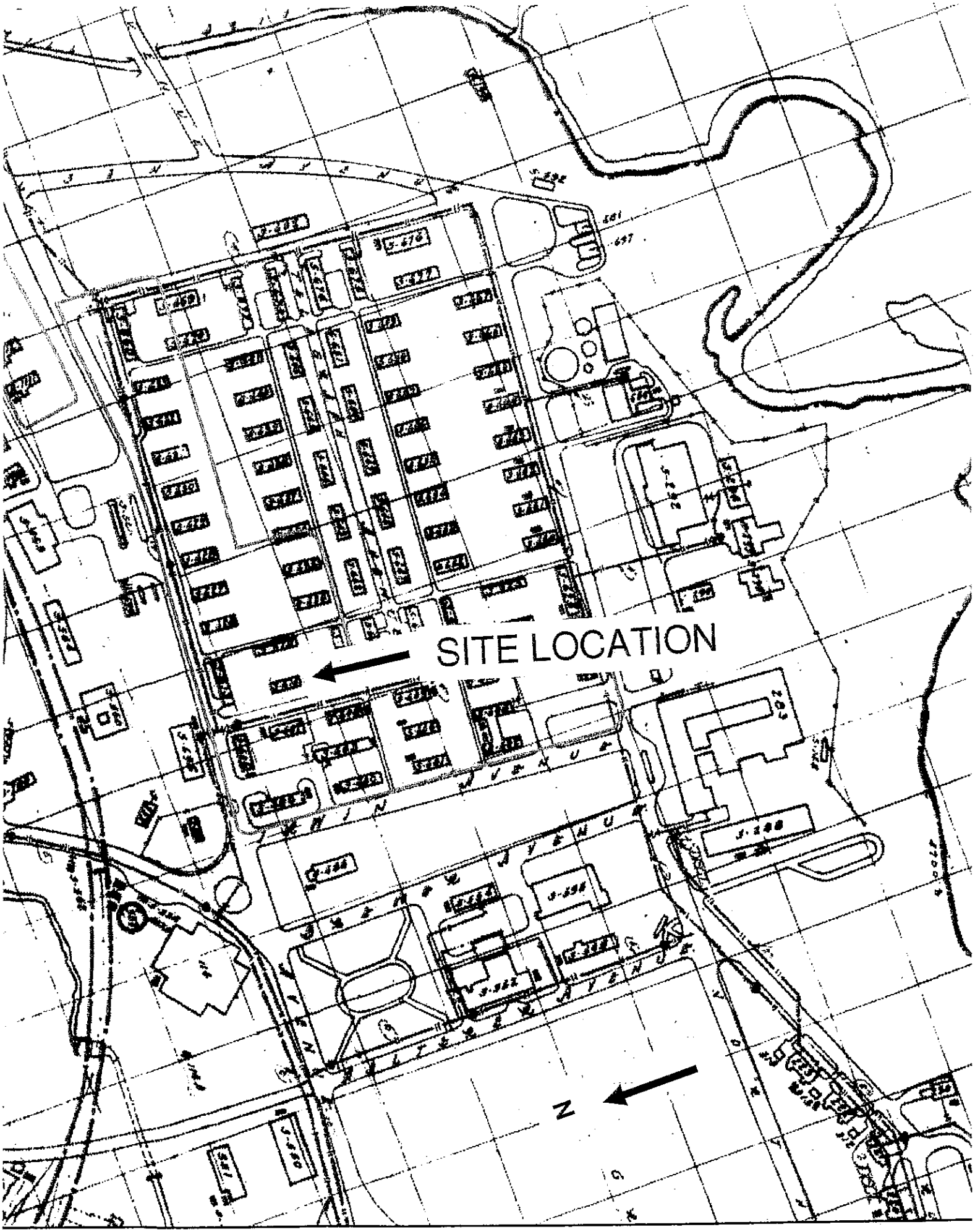


FIGURE 2

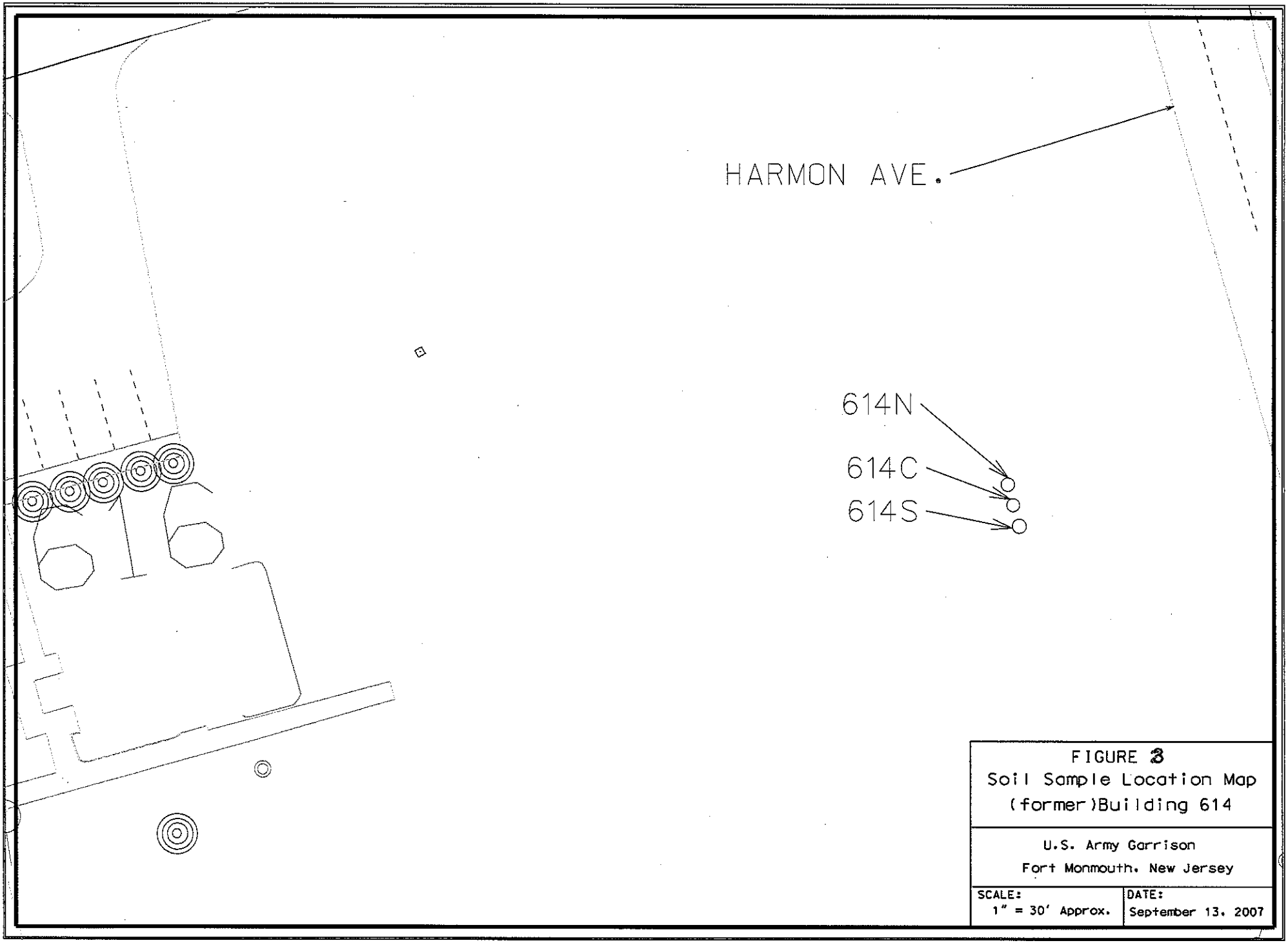


FIGURE 3
Soil Sample Location Map
(former)Building 614

U.S. Army Garrison
Fort Monmouth, New Jersey

SCALE: 1" = 30' Approx.

DATE: September 13, 2007

...\Projects\bim_MainPost.dgn 9/13/2007 9:56:42 AM

TABLES

TABLE 1

SUMMARY OF LABORATORY ANALYSIS

FT. MONMOUTH, (former) BUILDING 614, UST No. 81533-88
26 January 2006

SAMPLE ID	LABORATORY SAMPLE ID	SAMPLE DATE	SAMPLE MATRIX	ANALYTICAL PARAMETER	ANALYTICAL METHOD
614-N	6005701	26-Jan-06	SOIL	TPH	OQA-QAM-25
614-C	6005702	26-Jan-06	SOIL	TPH, VOA	OQA-QAM-25, 8260
614-S	6005703	26-Jan-06	SOIL	TPH	OQA-QAM-25
614-C-Groundwater	6005704	26-Jan-06	AQUEOUS	VOA, SVOA	SW-846, 8260 SW-846, 8270
Trip Blank	6005607	26-Jan-06	AQUEOUS	VOA	SW-846, 8260

ABBREVIATIONS:
TPH = Total Petroleum Hydrocarbons, Method NJDEP OQA-QAM-25
VOA = Volatile Organic Analysis, EPA SW-846 Method 8260
SVOA = Semi-Volatile Organic Analysis, EPA SW-846, Method 8270

TABLE 2

SUMMARY OF LABORATORY ANALYTICAL RESULTS-SOIL

FT. MONMOUTH, (former) BUILDING 614, UST No. 81533-88
26 January 2006

TOTAL PETROLEUM HYDROCARBONS

SAMPLE ID	LABORATORY SAMPLE ID	SAMPLE LOCATION	SAMPLE DEPTH	MATRIX	TPH RESULTS
			(in feet)		mg/kg
614-N	6005701	NORTH END UST	7.5 – 8.0	Soil	159
614-C	6005702	CENTER UST	6.0 – 6.5	Soil	3,257*
614-S	6005703	SOUTH END UST	6.0 – 6.5	Soil	ND

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

VOLATILE ORGANIC COMPOUNDS

SAMPLE ID	LAB SAMPLE ID	Benzene	Toluene	Ethyl-benzene	Xylenes (Total)
UNITS		mg/kg	mg/kg	mg/kg	mg/kg
614-C	6005702	ND	ND	ND	ND
NJDEP Criteria	Residential	3	1,000	1,000	410

TABLE 3

SUMMARY OF LABORATORY ANALYTICAL RESULTS- GROUNDWATER

FT. MONMOUTH, (former) BUILDING 614, UST No. 81533-88

26 January 2006

VOLATILE ORGANIC COMPOUNDS

SAMPLE ID	LAB SAMPLE ID	Benzene	Toluene	Ethyl-benzene	Xylenes (Total)
UNITS		ug/L	ug/L	ug/L	ug/L
614-Groundwater	6005704	ND	ND	ND	ND
NJDEP Criteria	Ground Water Quality Crireria	2	1,000	700	NLE

SEMI-VOLATILE ORGANIC COMPOUNDS

SAMPLE ID	LAB SAMPLE ID	Naphtha-lene	2Methyl-naphthalene	Ace-naphthene	Fluorene	Phenan-threne
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
614-Groundwater	6005704	4.2	15.6	2.5	0.96	2.4
NJDEP Criteria	Ground Water Quality Crireria	300	400	NLE	300	NLE

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

CERTIFICATION

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.

Site Remediation Program
UST Site Remedial Investigation Report

A. Facility Name: (former) Building 614

Facility Street Address: Harmon Ave.

Municipality: Oceanport County: Monmouth

Block: NA Lot(s): NA Telephone Number: 732-532-6223

B. Owner (RP)'s Name: U.S. Army Garrison - Directorate of Public Works

Street Address: Building 167, Riverside Ave. City: Ft. Monmouth

State: NJ Zip: 07703 Telephone Number: 732-532-6223

C. (Check as appropriate)

☐ Site Investigation Report (SIR) $500 Fee

☐ Remedial Investigation Report (RIR) $1000 Fee

D. (Complete all that apply)

Assigned Case Manager: _____

UST Registration Number: 0081533-88 (7 digits)

- Incident Report Number: _____ (10 or 12 digits)
- Tank Closure Number **C(N)9**____-____ C 9-____ **C9**____-_____(7 characters)

E. Certification by the Subsurface Evaluator:

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

Name: Frank Accorsi Signature: _____ UST Cert. No.: 0010042

Firm: Tecom-Vinnell Services, Inc. Firm's UST Cert. Number: US252302

Firm Address: P.O. 60 City: Ft. Monmouth

State: NJ Zip: 07703 Telephone Number: 732-532-5241

(NOTE: Certification numbers required only if work was conducted on **USTs** regulated per N.J.S.A. 5 8: **10A-2 1** et seq.)

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

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

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

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

Name (Print or Type): _____ Title: _____

Signature: _____

Company Name: _____ Date: _____

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. 614

Bldg. 614

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
614N 7.5-8.0'	6005701	Soil	26-Jan-06 13:20	01/26/06
614C 6.0-6.5'	6005702	Soil	26-Jan-06 13:50	01/26/06
614S 6.0-6.5'	6005703	Soil	26-Jan-06 14:21	01/26/06
614C GW	6005704	Aqueous	26-Jan-06 14:30	01/26/06

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

ENCLOSURE:
CHAIN OF CUSTODY
RESULTS

3-8-06
Daniel Wright/Date
Laboratory Director

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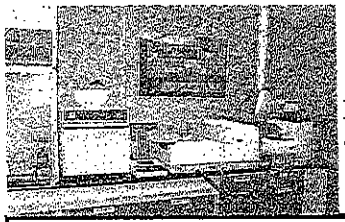
CHAIN OF CUSTODY



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: 6.14 (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
600057 01	6.14N 2.5-3.0	1/26/06	1320	Soil	2	X								4463
02	6.14C 6.0-6.5		1350	Soil	2	X								4464
03	6.14S 6.0-6.5		1421	Soil	2	X								4465
04	614C GW	"	1430	AQ	3		X	X						

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
George Boyce	1/26/06 1500				
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

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

Remarks: VO+10 on 25% > 1000 PPM TPH
Shared Trip with 692

SAMPLE RECEIPT FORM

Date Received: 1-26-06 Work Order ID#: 60054

Site/Proj. Name: Bldg 414/ UST Cooler Temp (°C): 4.0°C

Received By: J. Ventura Sign: J. Ventura
(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
50054/K	2	HCl			

Comments: ____________________

Change of Chain of Custody

Lab Project ID#: 600057
Date Received: 12/26/06
Requested by: *(print)* Howard
Turnaround Time: 10 std

Site/Project Name: Bldg 614 UST
Date of Change: 2/3/06
Sign: Howard

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
600502	VOA+15		
+			
600507	TB VOA+15		

Comments: _____

Former UST 614 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.)
614N	539372.466	618832.156
614C	539367.466	618833.459
614S	539362.316	618834.959

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: 60057

Site: UST
Bldg. 614

	Date	Hold Time
Date Sampled	01/26/06	NA
Receipt/Refrigeration	01/26/06	NA
Extractions		
1. BN	01/27/06	7 days
2. TPHC	02/01/06	14 days
Analyses		
1. VOA (Aqueous)	02/07,08/06	14 days
2. VOA (Soil)	02/07/06	14 days
3. BN	01/30/06	40 days
4. TPHC	02/02/06	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: — yes
   a. VOA Fraction Acetone 3.55 ug/L
   b. B/N Fraction
   c. Acid Fraction N/A
8. Surrogate Recoveries Meet Criteria — yes

   If not met, list those compounds and their recoveries, which fall outside the acceptable range:
   a. VOA Fraction
   b. B/N Fraction
   c. Acid Fraction N/A

   If not met, were the calculations checked and the results qualified as "estimated"? —
9. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria (If not met, list those compounds and their recoveries, which fall outside the acceptable range) — NO
   a. VOA Fraction Various out see form
   b. B/N Fraction Benzidine rec. low
   c. Acid Fraction N/A

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 N/A

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: 3-8-06

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: 3-8-06

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	VB021635.D	Sample Name	MB 07Feb2006
Operator	Skelton	Field ID	MB 07Feb2006
Date Acquired	7 Feb 2006 8:34 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	11.94	45398	3.55 ug/L	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

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **MB 07Feb2006**

Lab Name: FMETL NJDEP#: 13461

Project: 06-34880 Case No.: 60056 Location: 692 SDG No.: UST

Matrix: (soil/water) WATER Lab Sample ID: MB 07Feb2006

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB021635.D

Level: (low/med) LOW Date Received: 1/26/2006

% Moisture: not dec. _____ Date Analyzed: 2/7/2006

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	12.44	21	JN

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

Data File	VB021641.D	Sample Name	6005606
Operator	Skelton	Field ID	Trip Blank
Date Acquired	8 Feb 2006 12:37 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifier
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	11.66	49080	2.09 ug/L	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

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Trip Blank**

Lab Name: FMETL NJDEP#: 13461

Project: 06-34880 Case No.: 60056 Location: 692 SDG No.: UST

Matrix: (soil/water) WATER Lab Sample ID: 6005606

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB021641.D

Level: (low/med) LOW Date Received: 1/26/2006

% Moisture: not dec. Date Analyzed: 2/8/2006

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	12.46	12	JN

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

Data File	VB021642.D	Sample Name	6005704
Operator	Skelton	Field ID	614C GW
Date Acquired	8 Feb 2006 1:17 am	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	11.69	39160	1.68 ug/L	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

000021

2/28/2006 2:46 PM

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **614C GW**

Lab Name: FMETL NJDEP#: 13461

Project: 06-34880 Case No.: 60057 Location: 614 SDG No.: UST

Matrix: (soil/water) WATER Lab Sample ID: 6005704

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB021642.D

Level: (low/med) LOW Date Received: 1/26/2006

% Moisture: not dec. Date Analyzed: 2/8/2006

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: 6

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000079-20-9	Acetic acid, methyl ester	12.46	15	JN
2. 000526-73-8	Benzene, 1,2,3-trimethyl-	30.21	3	JN
3. 000135-01-3	Benzene, 1,2-diethyl-	30.39	4	JN
4. 000496-11-7	Indane	30.50	8	JN
5. 000768-00-3	Benzene, (1-methyl-1-propenyl)-,	31.48	3	JN
6. 000768-49-0	Benzene, (2-methyl-1-propenyl)-	31.59	16	JN

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: FMETL NJDEP#: 13461

Project: 06-34880 Case No.: 60056 Location: 692 SDG No.: UST

Lab File ID: VB021627.D BFB Injection Date: 2/7/2006

Instrument ID: GCMS#2 BFB Injection Time: 15:20

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	19.4
75	30.0 - 66.0% of mass 95	52.8
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	75.1
175	4.0 - 9.0% of mass 174	5.4 (7.2)1
176	93.0 - 101.0% of mass 174	73.4 (97.8)1
177	5.0 - 9.0% of mass 176	4.8 (6.5)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	VB021628.D	2/7/2006	15:50
02	VSTD005	VSTD005	VB021629.D	2/7/2006	16:31
03	VSTD002	VSTD002	VB021630.D	2/7/2006	17:11
04	VSTD050	VSTD050	VB021631.D	2/7/2006	17:52
05	VSTD020	VSTD020	VB021632.D	2/7/2006	18:32
06	MB 07FEB2006	MB 07FEB2006	VB021635.D	2/7/2006	20:34
07	692C GW	6005605	VB021640.D	2/7/2006	23:57
08	TRIP BLANK	6005606	VB021641.D	2/8/2006	0:37

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: FMETL NJDEP#: 13461

Project: 06-34880 Case No.: 60057 Location: 614 SDG No.: UST

Lab File ID: VB021627.D BFB Injection Date: 2/7/2006

Instrument ID: GCMS#2 BFB Injection Time: 15:20

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	19.4
75	30.0 - 66.0% of mass 95	52.8
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	75.1
175	4.0 - 9.0% of mass 174	5.4 (7.2)1
176	93.0 - 101.0% of mass 174	73.4 (97.8)1
177	5.0 - 9.0% of mass 176	4.8 (6.5)2

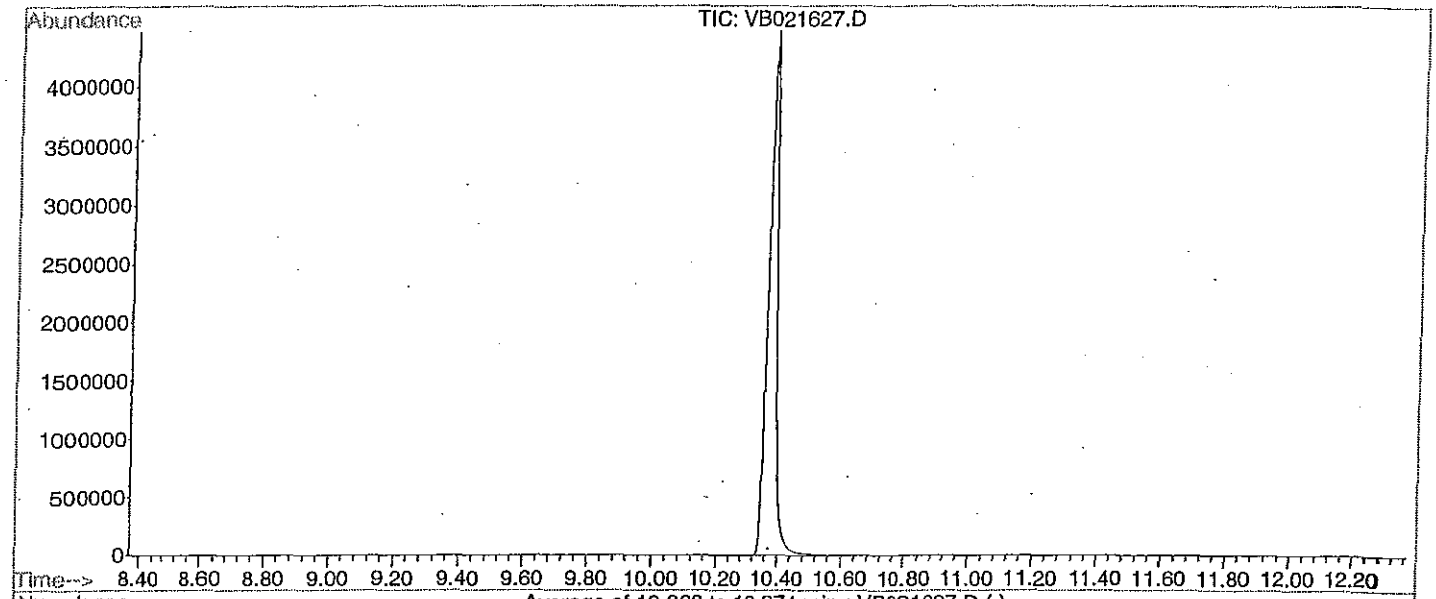
1-Value is % mass 174 2-Value is % mass 176

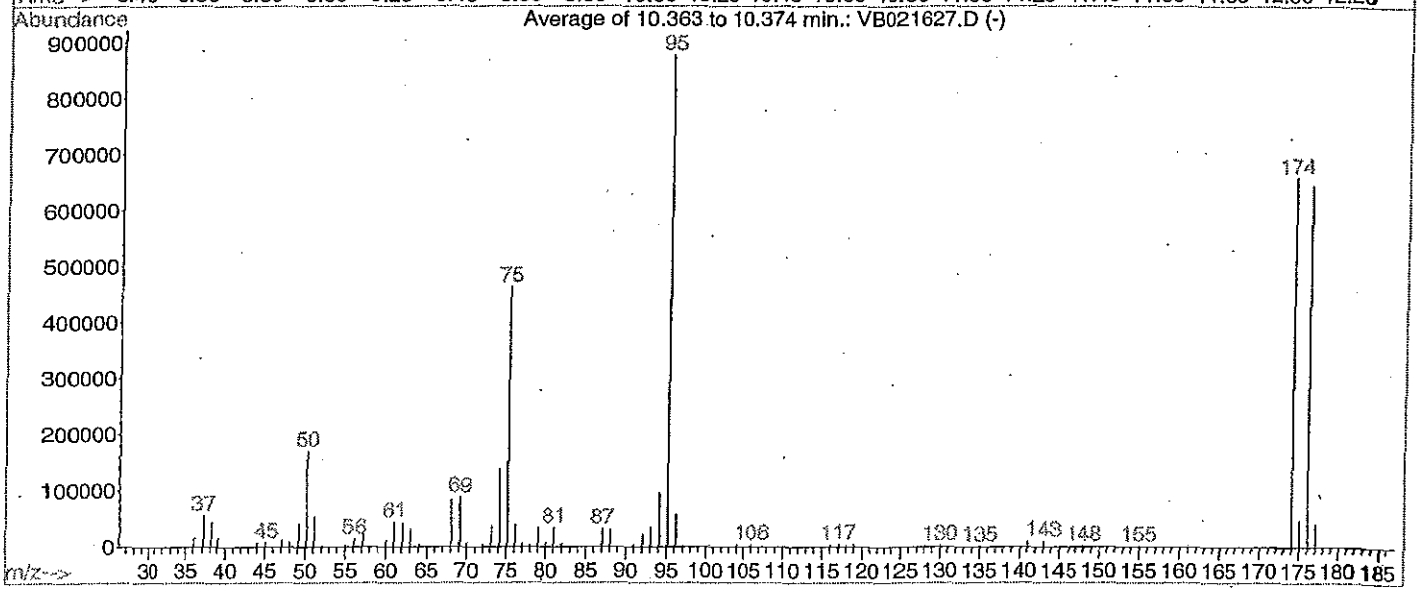
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	FIELD ID:	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	VSTD010	VB021628.D	2/7/2006	15:50
02	VSTD005	VSTD005	VB021629.D	2/7/2006	16:31
03	VSTD002	VSTD002	VB021630.D	2/7/2006	17:11
04	VSTD050	VSTD050	VB021631.D	2/7/2006	17:52
05	VSTD020	VSTD020	VB021632.D	2/7/2006	18:32
06	MB 07FEB2006	MB 07FEB2006	VB021635.D	2/7/2006	20:34
07	614C GW	6005704	VB021642.D	2/8/2006	1:17

Data File : C:\HPCHEM\1\DATA\060207\VB021627.D
Acq On : 7 Feb 2006 3:20 pm
Sample : BFB Tune
Misc : BFB Tune
MS Integration Params: GAS10.P
Method : C:\HPCHEM\1\METHODS\M2VO231.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 163, 164, 165; Background Corrected with Scan 153

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.4	170859	PASS
75	95	30	60	52.8	463787	PASS
95	95	100	100	100.0	878592	PASS
96	95	5	9	6.6	57872	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	75.1	659413	PASS
175	174	5	9	7.2	47768	PASS
176	174	95	101	97.8	644608	PASS
177	176	5	9	6.5	42168	PASS

VB021627.D M2VO231.M Tue Feb 28 14:42:51 2006

Method : C:\HPCHEM\1\METHODS\M2VO231.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Wed Feb 08 15:05:52 2006
Response via : Initial Calibration

Calibration Files
50 =VB021631.D 20 =VB021632.D 10 =VB021628.D
5 =VB021629.D 2 =VB021630.D

		Compound	50	20	10	5	2	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------						
2)	tm	Acrolein	0.090	0.077	0.063	0.069	0.046	0.069	24.06
3)	tm	Acrylonitrile	0.833	0.735	0.789	0.774	0.678	0.762	7.69
4)	tm	tert-Butyl alcohol	0.097	0.093	0.090	0.103	0.093	0.095	5.11
5)	tm	Methyl-tert-Butyl eth	4.833	4.005	4.052	3.915	3.424	4.046	12.52
6)	tm	Di-isopropyl ether	1.825	1.556	1.465	1.397	1.173	1.483	16.03
7)	Tm	Dichlorodifluorometha	1.674	1.521	1.919	1.960	1.920	1.799	10.69
8)	TPm	Chloromethane	2.202	2.120	2.465	2.598	2.589	2.395	9.26
9)	TCm	Vinyl Chloride	2.292	2.139	2.454	2.527	2.399	2.362	6.40
10)	Tm	Bromomethane	1.582	1.456	1.651	1.666	1.436	1.558	6.89
11)	Tm	Chloroethane	1.796	1.676	2.500	2.497	2.719	2.238	20.94
12)	Tm	Trichlorofluoromethan	4.399	4.044	4.571	4.695	4.542	4.450	5.63
13)	MC	1,1-Dichloroethene	3.239	2.913	2.920	3.000	2.744	2.963	6.09
14)	Tm	Acetone	0.496	0.550	0.795	1.194	2.255	1.058	68.40
15)	Tm	Carbon Disulfide	6.569	5.887	6.194	6.128	5.870	6.130	4.64
16)	Tm	Methylene Chloride	2.449	2.291	2.470	2.640	2.534	2.477	5.15
17)	Tm	trans-1,2-Dichloroeth	3.184	2.937	2.960	3.092	2.801	2.995	4.94
18)	TPm	1,1-Dichloroethane	4.153	3.740	3.993	4.085	3.800	3.954	4.52
19)	Tm	Vinyl Acetate	1.297	1.041	0.989	0.961	0.879	1.033	15.33
20)	Tm	2-Butanone	0.630	0.513	0.517	0.539	0.507	0.542	9.42
21)	Tm	cis-1,2-Dichloroethen	3.316	3.000	2.963	3.022	2.723	3.005	7.03
22)	TCm	Chloroform	4.265	4.071	4.347	4.539	4.241	4.293	3.97
23)	Tm	1,1,1-Trichloroethane	3.761	3.315	3.260	3.214	2.882	3.286	9.57
24)	Tm	Carbon Tetrachloride	3.241	2.838	2.870	2.933	2.651	2.907	7.37
25)	S	1,2-Dichloroethane-d4	4.003	3.921	3.988	4.014	3.794	3.944	2.31
26)	I	1,4-Difluorobenzene	----------ISTD----------						
27)	TM	Benzene	1.415	1.239	1.376	1.388	1.244	1.333	6.31
28)	Tm	1,2-Dichloroethane	0.479	0.423	0.483	0.498	0.468	0.470	6.09
29)	TM	Trichloroethene	0.368	0.314	0.341	0.340	0.310	0.335	6.97
30)	TCm	1,2-Dichloropropane	0.334	0.290	0.315	0.319	0.298	0.311	5.60
31)	Tm	Bromodichloromethane	0.459	0.390	0.434	0.428	0.395	0.421	6.84
32)	Tm	2-Chloroethyl vinyl e	0.188	0.147	0.145	0.134	0.124	0.148	16.74
33)	Tm	cis-1,3-Dichloroprope	0.572	0.468	0.480	0.442	0.378	0.468	14.95
34)	Tm	4-Methyl-2-Pentanone	0.073	0.059	0.058	0.060	0.055	0.061	11.53
35)	S	Toluene-d8	1.312	1.202	1.234	1.159	1.015	1.184	9.27
36)	TCM	Toluene	1.602	1.401	1.550	1.529	1.296	1.476	8.46
37)	I	Chlorobenzene-d5	----------ISTD----------						
38)	Tm	trans-1,3-Dichloropro	1.967	1.676	1.585	1.452	1.264	1.589	16.48
39)	Tm	1,1,2-Trichloroethane	1.145	1.071	1.130	1.137	1.080	1.113	3.10
40)	Tm	Tetrachloroethene	1.523	1.422	1.489	1.490	1.368	1.458	4.27
41)	Tm	2-Hexanone	0.420	0.364	0.338	0.347	0.347	0.363	9.13
42)	Tm	Dibromochloromethane	1.243	1.093	1.108	1.069	0.941	1.091	9.88
43)	TMP	Chlorobenzene	3.897	3.653	3.967	3.975	3.888	3.876	3.38
44)	TCm	Ethylbenzene	6.752	6.244	6.531	6.438	5.904	6.374	5.01
45)	Tm	m+p-Xylenes	2.468	2.228	2.305	2.199	1.857	2.211	10.12
46)	Tm	o-Xylene	5.118	4.659	4.568	4.106	3.360	4.362	15.26
47)	Tm	Styrene	3.788	3.315	3.290	2.980	2.359	3.147	16.73
48)	TPm	Bromoform	0.824	0.715	0.726	0.687	0.646	0.720	9.20
49)	S	Bromofluorobenzene	1.882	1.741	1.676	1.515	1.432	1.649	10.86
50)	TPm	1,1,2,2-Tetrachloroet	1.231	1.189	1.215	1.255	1.133	1.204	3.88
51)	Tm	1,3-Dichlorobenzene	2.607	2.439	2.387	2.364	2.128	2.385	7.22
52)	Tm	1,4-Dichlorobenzene	2.793	2.655	2.589	2.509	2.191	2.547	8.82
53)	Tm	1,2-Dichlorobenzene	2.347	2.278	2.203	2.207	2.001	2.207	5.87
54)	Tm	Naphthalene	0.446	0.639	0.412	0.516	0.586	0.520	18.21

(#) = Out of Range

000026

4A

FIELD ID:

VOLATILE METHOD BLANK SUMMARY

MB 07Feb2006

Lab Name: FMETL NJDEP#: 13461

Project: 06-34880 Case No.: 60056 Location: 692 SDG No.: UST

Lab File ID: VB021635.D Lab Sample ID: MB 07Feb2006

Date Analyzed: 2/7/2006 Time Analyzed: 20:34

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	692C GW	6005605	VB021640.D	23:57
02	TRIP BLANK	6005606	VB021641.D	0:37

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

FIELD ID: **MB 07Feb2006**

Lab Name: FMETL NJDEP#: 13461

Project: 06-34880 Case No.: 60057 Location: 614 SDG No.: UST

Lab File ID: VB021635.D Lab Sample ID: MB 07Feb2006

Date Analyzed: 2/7/2006 Time Analyzed: 20:34

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	614C GW	6005704	VB021642.D	1:17

COMMENTS:

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: FMETL NJDEP#: 13461

Project: 06-34880 Case No.: 60056 Location: 692 SDG No.: UST

	FIELD ID:	SMC1 DCE #	SMC2 TOL #	SMC3 BFB #	TOT OUT
01	MB 07FEB2006	91	98	93	0
02	692C GW	89	97	98	0
03	TRIP BLANK	90	95	93	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: 06-34880 Case No.: 60057 Location: 614 SDG No.: UST

	FIELD ID:	SMC1 DCE #	SMC2 TOL #	SMC3 BFB #	TOT OUT
01	MB 07FEB2006	91	98	93	0
02	614C GW	90	98	95	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

Spike Recovery and RPD Summary Report - WATER

Method : C:\HPCHEM\1\METHODS\M2VO231.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Wed Feb 08 15:05:52 2006
Response via : Initial Calibration

Non-Spiked Sample: VB021645.D

	Spike Sample	Spike Duplicate Sample
File ID :	VB021646.D	VB021647.D
Sample :	6006204 MS	6006204 MSD
Acq Time:	8 Feb 2006 3:59 am	8 Feb 2006 4:40 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	57	61	114	121	6	20	59-137
Acrylonitrile	0.0	50	61	64	121	128#	5	20	68-127
tert-Butyl alcohol	0.0	100	109	121	109	121	11	20	17-167
Methyl-tert-Butyl et	0.0	10	13	14	132#	139#	5	20	74-116
Di-isopropyl ether	0.0	10	14	14	136#	141#	4	20	77-117
Dichlorodifluorometh	0.0	10	10	10	96	99	3	20	50-131
Chloromethane	1.4	10	11	12	92	108	17	20	65-123
Vinyl Chloride	0.0	10	13	13	131#	135#	3	20	63-125
Bromomethane	5.7	10	15	15	89	94	6	20	72-118
Chloroethane	0.0	10	4	4	38#	40#	4	20	64-127
Trichlorofluorometha	0.0	10	8	8	81	79	3	20	60-122
1,1-Dichloroethene	0.0	10	10	10	99	101	2	20	68-116
Acetone	0.0	10	9	9	91	93	1	20	2-148
Carbon Disulfide	0.0	10	9	10	94	96	2	20	69-117
Methylene Chloride	2.6	10	15	16	120#	131#	9	20	79-110
trans-1,2-Dichloroet	0.0	10	11	12	114#	123#	8	20	73-113
1,1-Dichloroethane	0.0	10	2	2	22#	25#	13	20	77-112
Vinyl Acetate	0.0	10	13	13	126	134#	6	20	52-127
2-Butanone	0.0	10	13	13	131	133	1	20	12-162
cis-1,2-Dichloroethe	0.0	10	12	12	116#	124#	6	20	74-114
Chloroform	0.0	10	10	12	103	119#	14	20	79-110
1,1,1-Trichloroethan	0.0	10	12	12	116#	121#	4	20	73-114
Carbon Tetrachloride	0.0	10	11	11	109	113	4	20	69-115
Benzene	0.0	10	8	8	85	85	0	20	78-112
1,2-Dichloroethane	0.0	10	9	9	90	89	1	20	78-115
Trichloroethene	0.0	10	8	8	83	83	1	20	74-114
1,2-Dichloropropane	0.0	10	9	9	87	87	0	20	77-113
Bromodichloromethane	0.0	10	8	8	84	83	1	20	77-113
2-Chloroethyl vinyl	0.0	10	9	9	85	86	1	20	67-117
cis-1,3-Dichloroprop	0.0	10	8	8	85	84	1	20	75-116
4-Methyl-2-Pentanone	0.0	10	8	9	84	86	3	20	33-146
Toluene	0.0	10	9	9	87	87	1	20	80-113
trans-1,3-Dichloropr	0.0	10	9	9	86	85	0	20	75-117
1,1,2-Trichloroethan	0.0	10	9	9	92	92	0	20	78-116
Tetrachloroethene	0.0	10	8	8	83	82	2	20	73-115
2-Hexanone	0.0	10	8	9	83	85	3	20	30-147
Dibromochloromethane	0.0	10	9	8	86	84	2	20	77-115
Chlorobenzene	0.0	10	9	9	87	86	2	20	78-112
Ethylbenzene	0.0	10	8	8	84	83	2	20	77-113
m+p-Xylenes	0.0	20	17	17	86	84	3	20	76-115
o-Xylene	0.0	10	9	9	91	88	3	20	74-118
Styrene	0.0	10	9	8	87	85	2	20	77-116
Bromoform	0.0	10	8	8	84	83	1	20	72-116
1,1,2,2-Tetrachloroe	0.0	10	9	9	90	89	2	20	73-120
1,3-Dichlorobenzene	0.0	10	9	9	88	88	0	20	75-114
1,4-Dichlorobenzene	0.0	10	9	9	89	89	0	20	75-116
1,2-Dichlorobenzene	0.0	10	9	9	89	89	0	20	76-115
Naphthalene	0.1	10	6	7	60#	72	19	20	70-120

- Fails Limit Check

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: FMETL NJDEP#: 13461

Project: 06-34880 Case No.: 60056 Location: 692 SDG No.: UST

Lab File ID (Standard): VB021628.D Date Analyzed: 2/7/2006

Instrument ID: GCMS#2 Time Analyzed: 15:50

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	371081	16.43	2603119	19.62	677143	25.65
	UPPER LIMIT	742162	16.93	5206238	20.12	1354286	26.15
	LOWER LIMIT	185541	15.93	1301560	19.12	338572	25.15
	FIELD ID:						
01	MB 07FEB2006	362902	16.43	2581364	19.62	678449	25.65
02	692C GW	289518	16.43	2768627	19.62	731994	25.65
03	TRIP BLANK	283861	16.43	2797272	19.62	732306	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

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: FMETL NJDEP#: 13461

Project: 06-34880 Case No.: 60057 Location: 614 SDG No.: UST

Lab File ID (Standard): VB021628.D Date Analyzed: 2/7/2006

Instrument ID: GCMS#2 Time Analyzed: 15:50

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	371081	16.43	2603119	19.62	677143	25.65
	UPPER LIMIT	742162	16.93	5206238	20.12	1354286	26.15
	LOWER LIMIT	185541	15.93	1301560	19.12	338572	25.15
	FIELD ID:						
01	MB 07FEB2006	362902	16.43	2581364	19.62	678449	25.65
02	614C GW	281545	16.43	2736510	19.62	724906	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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060207\VB021635.D Vial: 8
Acq On : 7 Feb 2006 8:34 pm Operator: Skelton
Sample : MB 07Feb2006 Inst : GC/MS Ins
Misc : MB 07Feb2006 Multiplr: 1.00
MS Integration Params: GAS10.P
Quant Time: Feb 8 8:35 2006 Quant Results File: M2VO231.RES

Quant Method : C:\HPCHEM\1\METHODS\M2VO231.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Wed Feb 08 08:21:21 2006
Response via : Initial Calibration
DataAcq Meth : M2VO231

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	16.43	128	362902	30.00	ug/L	0.00
26) 1,4-Difluorobenzene	19.62	114	2581364	30.00	ug/L	0.00
37) Chlorobenzene-d5	25.65	119	678449	30.00	ug/L	0.00
System Monitoring Compounds						
25) 1,2-Dichloroethane-d4	18.45	65	971892	27.16	ug/L	0.00
Spiked Amount 30.000	Range 70 - 120		Recovery = 90.53%			
35) Toluene-d8	22.56	98	2989345	29.33	ug/L	0.00
Spiked Amount 30.000	Range 70 - 120		Recovery = 97.77%			
49) Bromofluorobenzene	27.99	95	1044373	28.00	ug/L	0.00
Spiked Amount 30.000	Range 70 - 120		Recovery = 93.33%			
Target Compounds						Qvalue
14) Acetone	11.94	43	45398	3.55	ug/L	91

(#) = qualifier out of range (m) = manual integration
VB021635.D M2VO231.M Tue Feb 28 14:39:46 2006

000034

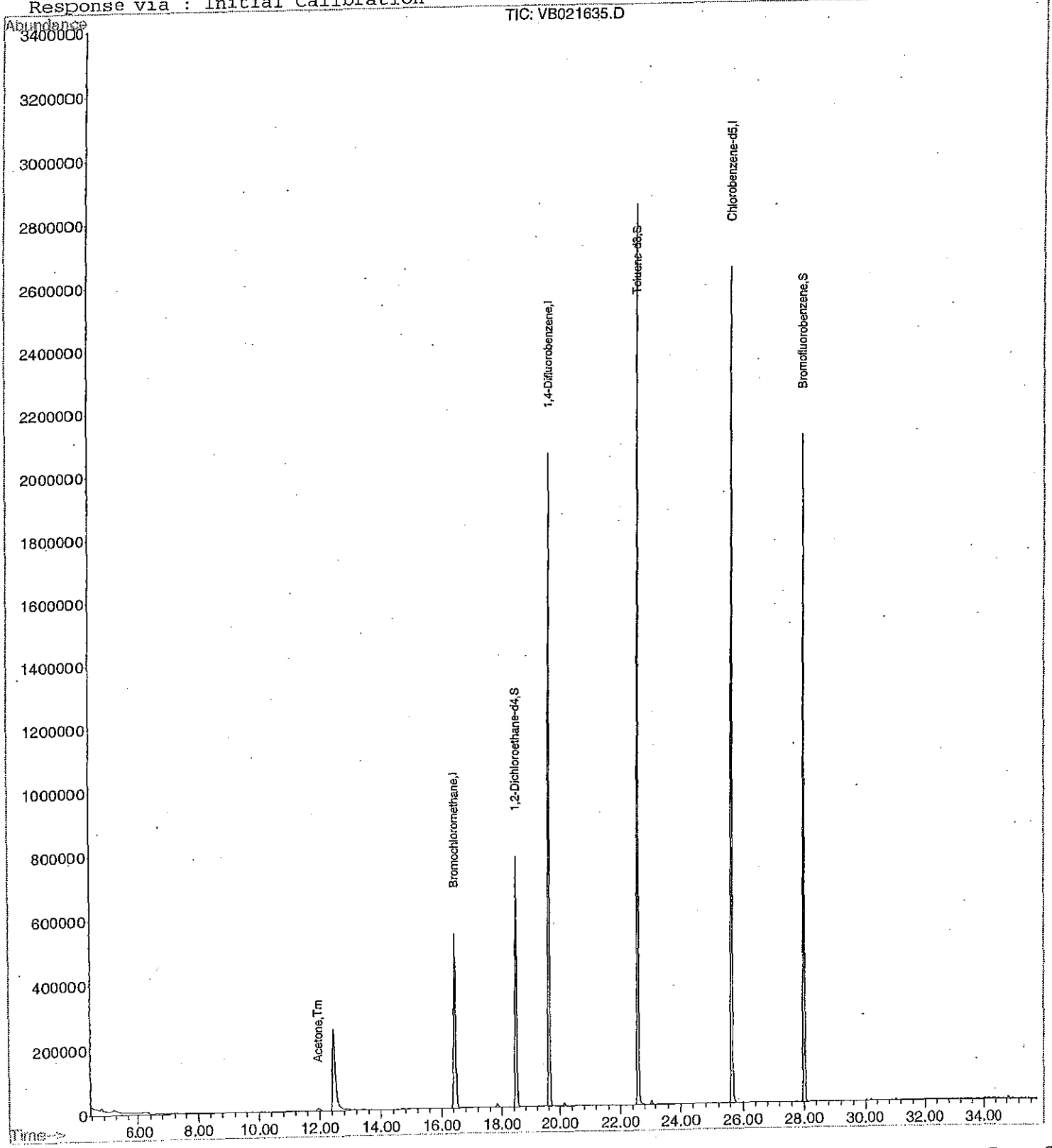
Quantitation Report

Data File : C:\HPCHEM\1\DATA\060207\VB021635.D
Acq On : 7 Feb 2006 8:34 pm
Sample : MB 07Feb2006
Misc : MB 07Feb2006
MS Integration Params: GAS10.P
Quant Time: Feb 8 8:35 2006

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

Quant Results File: M2VO231.RES

Method : C:\HPCHEM\1\METHODS\M2VO231.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Wed Feb 08 15:05:52 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060207\VB021641.D Vial: 14
Acq On : 8 Feb 2006 12:37 am Operator: Skelton
Sample : 6005606 Inst : GC/MS Ins
Misc : Trip Blank Multiplr: 1.00
MS Integration Params: GAS10.P
Quant Time: Feb 28 14:38 2006 Quant Results File: M2VO231.RES

Quant Method : C:\HPCHEM\1\METHODS\M2VO231.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Wed Feb 08 15:05:52 2006
Response via : Initial Calibration
DataAcq Meth : M2VO231

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	16.43	128	283861	30.00	ug/L	0.00
26) 1,4-Difluorobenzene	19.62	114	2797272	30.00	ug/L	0.00
37) Chlorobenzene-d5	25.65	119	732306	30.00	ug/L	0.00
System Monitoring Compounds						
25) 1,2-Dichloroethane-d4	18.45	65	1002518	26.86	ug/L	0.00
Spiked Amount 30.000	Range 70 - 120		Recovery = 89.53%			
35) Toluene-d8	22.57	98	3155776	28.58	ug/L	0.00
Spiked Amount 30.000	Range 70 - 120		Recovery = 95.27%			
49) Bromofluorobenzene	27.99	95	1121369	27.85	ug/L	0.00
Spiked Amount 30.000	Range 70 - 120		Recovery = 92.83%			
Target Compounds						Qvalue
16) Methylene Chloride	11.66	84	49080	2.09	ug/L	89

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

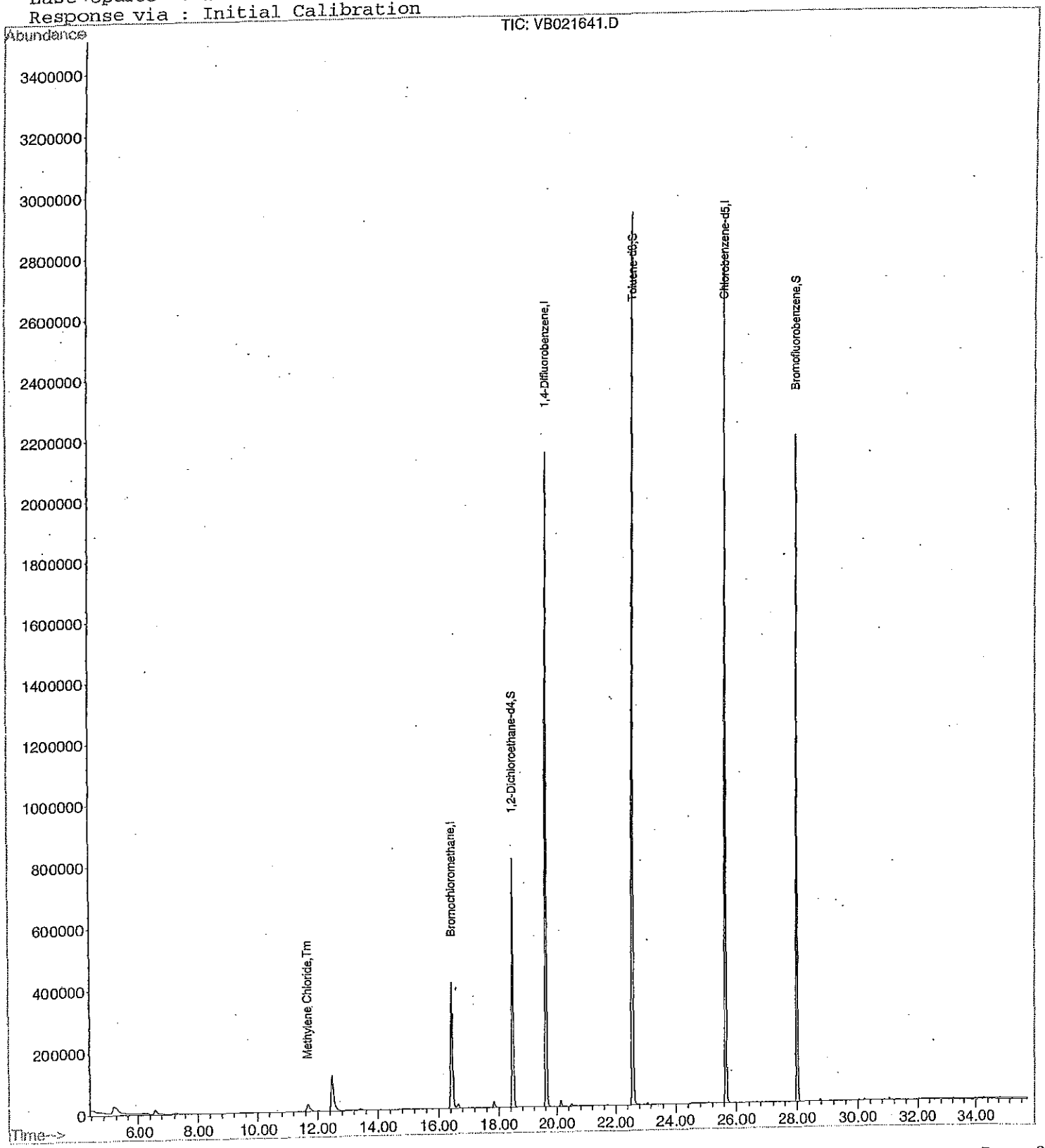
Quantitation Report

Data File : C:\HPCHEM\1\DATA\060207\VB021641.D
Acq On : 8 Feb 2006 12:37 am
Sample : 6005606
Misc : Trip Blank
MS Integration Params: GAS10.P
Quant Time: Feb 28 14:38 2006

Vial: 14
Operator: Skelton
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: M2VO231.RES

Method : C:\HPCHEM\1\METHODS\M2VO231.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Wed Feb 08 15:05:52 2006
Response via : Initial Calibration



000037

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060207\VB021642.D Vial: 15
Acq On : 8 Feb 2006 1:17 am Operator: Skelton
Sample : 6005704 Inst : GC/MS Ins
Misc : 614C GW Multiplr: 1.00
MS Integration Params: GAS10.P
Quant Time: Feb 28 14:39 2006 Quant Results File: M2VO231.RES

Quant Method : C:\HPCHEM\1\METHODS\M2VO231.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Wed Feb 08 15:05:52 2006
Response via : Initial Calibration
DataAcq Meth : M2VO231

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	16.43	128	281545	30.00	ug/L	0.00
26) 1,4-Difluorobenzene	19.62	114	2736510	30.00	ug/L	0.00
37) Chlorobenzene-d5	25.65	119	724906	30.00	ug/L	0.00
System Monitoring Compounds						
25) 1,2-Dichloroethane-d4	18.45	65	1000158	27.02	ug/L	0.00
Spiked Amount 30.000	Range 70 - 120		Recovery = 90.07%			
35) Toluene-d8	22.56	98	3169407	29.34	ug/L	0.00
Spiked Amount 30.000	Range 70 - 120		Recovery = 97.80%			
49) Bromofluorobenzene	27.99	95	1140275	28.61	ug/L	0.00
Spiked Amount 30.000	Range 70 - 120		Recovery = 95.37%			
Target Compounds						Qvalue
16) Methylene Chloride	11.69	84	39160	1.68	ug/L	95

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

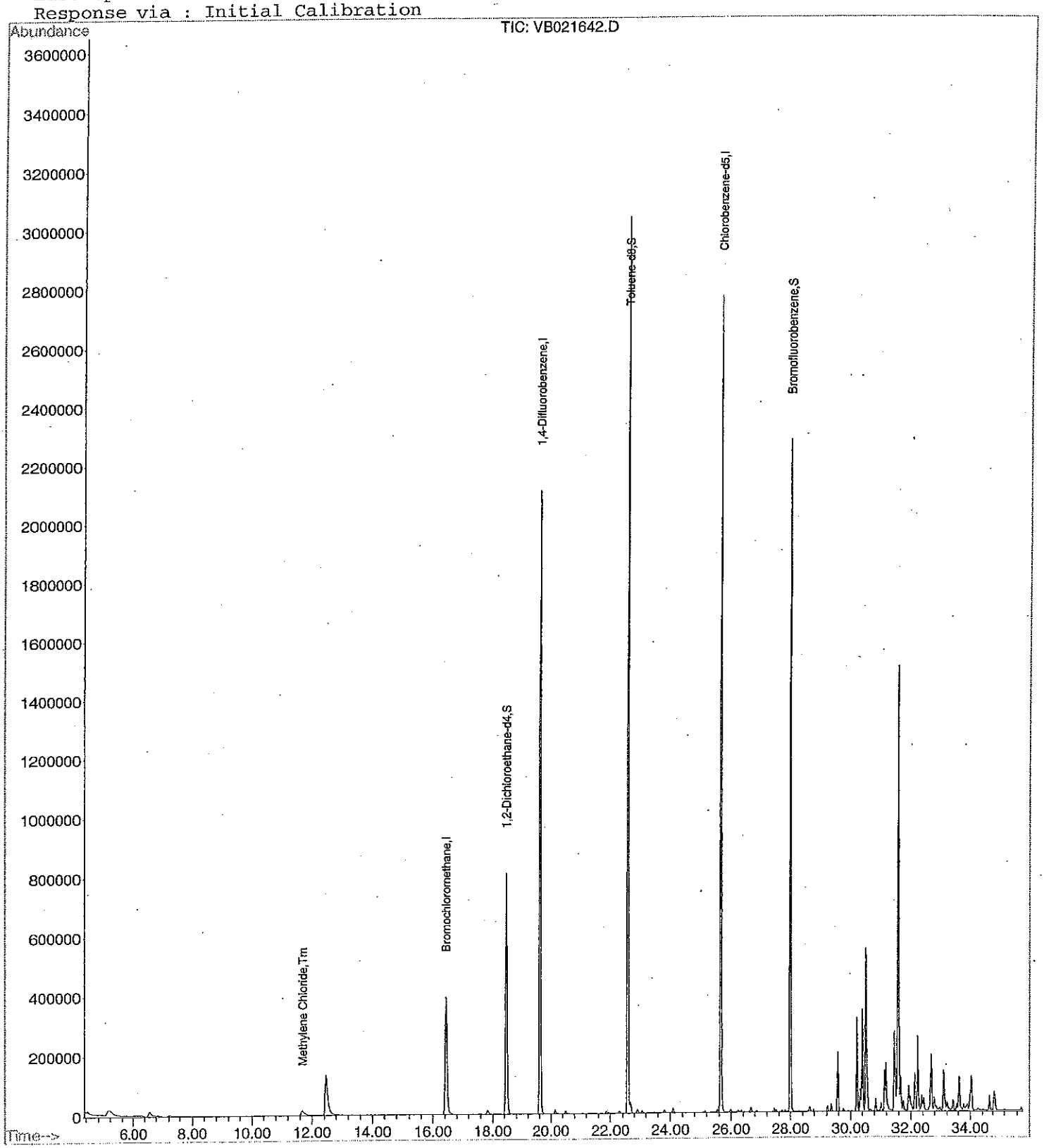
Quantitation Report

Data File : C:\HPCHEM\1\DATA\060207\VB021642.D
Acq On : 8 Feb 2006 1:17 am
Sample : 6005704
Misc : 614C GW
MS Integration Params: GAS10.P
Quant Time: Feb 28 14:39 2006

Vial: 15
Operator: Skelton
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: M2VO231.RES

Method : C:\HPCHEM\1\METHODS\M2VO231.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Wed Feb 08 15:05:52 2006
Response via : Initial Calibration



000039

VOLATILE ORGANICS (SOIL)

1A

FIELD ID:

VOLATILE ORGANICS ANALYSIS DATA SHEET

MB 07Feb2006

Lab Name: FMETL NJDEP#: 13461

Project: 06-34880 Case No.: 60057 Location: 614 SDG No.: UST

Matrix: (soil/water) SOIL Lab Sample ID: MB 07Feb2006

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB021635.D

Level: (low/med) MED Date Received: 1/26/2006

% Moisture: not dec. 0 Date Analyzed: 2/7/2006

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	360	
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 07Feb2006

Lab Name: FMETL NJDEP#: 13461

Project: 06-34880 Case No.: 60057 Location: 614 SDG No.: UST

Matrix: (soil/water) SOIL Lab Sample ID: MB 07Feb2006

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB021635.D

Level: (low/med) MED Date Received: 1/26/2006

% Moisture: not dec. 0 Date Analyzed: 2/7/2006

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
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 07Feb2006**

Lab Name: FMETL NJDEP#: 13461

Project: 06-34880 Case No.: 60057 Location: 614 SDG No.: UST

Matrix: (soil/water) SOIL Lab Sample ID: MB 07Feb2006

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB021635.D

Level: (low/med) MED Date Received: 1/26/2006

% Moisture: not dec. 0 Date Analyzed: 2/7/2006

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: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000079-20-9	Acetic acid, methyl ester	12.44	2100	JN

1A

FIELD ID:

VOLATILE ORGANICS ANALYSIS DATA SHEET

Trip Blank

Lab Name: FMETL NJDEP#: 13461

Project: 06-34880 Case No.: 60057 Location: 614 SDG No.: UST

Matrix: (soil/water) SOIL Lab Sample ID: 6005607

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB021636.D

Level: (low/med) MED Date Received: 1/26/2006

% Moisture: not dec. 0 Date Analyzed: 2/7/2006

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

FIELD ID:

VOLATILE ORGANICS ANALYSIS DATA SHEET

Trip Blank

Lab Name: FMETL NJDEP#: 13461

Project: 06-34880 Case No.: 60057 Location: 614 SDG No.: UST

Matrix: (soil/water) SOIL Lab Sample ID: 6005607

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB021636.D

Level: (low/med) MED Date Received: 1/26/2006

% Moisture: not dec. 0 Date Analyzed: 2/7/2006

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: 06-34880 Case No.: 60057 Location: 614 SDG No.: UST

Matrix: (soil/water) SOIL Lab Sample ID: 6005607

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB021636.D

Level: (low/med) MED Date Received: 1/26/2006

% Moisture: not dec. 0 Date Analyzed: 2/7/2006

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: 4

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	5.11	870	J
2. 000079-20-9	Acetic acid, methyl ester	12.43	12000	JN
3. 001112-39-6	Silane, dimethoxydimethyl-	17.38	1900	JN
4. 000554-12-1	Propanoic acid, methyl ester	17.83	370	JN

1A

FIELD ID:

VOLATILE ORGANICS ANALYSIS DATA SHEET

614C

Lab Name: FMETL NJDEP#: 13461

Project: 06-34880 Case No.: 60057 Location: 614 SDG No.: UST

Matrix: (soil/water) SOIL Lab Sample ID: 6005702

Sample wt/vol: 10.2 (g/ml) G Lab File ID: VB021637.D

Level: (low/med) MED Date Received: 1/26/2006

% Moisture: not dec. 19.37 Date Analyzed: 2/7/2006

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	1200	U
107131	Acrylonitrile	1200	U
75650	tert-Butyl alcohol	1200	U
1634044	Methyl-tert-Butyl ether	120	U
108203	Di-isopropyl ether	120	U
75718	Dichlorodifluoromethane	120	U
74-87-3	Chloromethane	120	U
75-01-4	Vinyl Chloride	120	U
74-83-9	Bromomethane	120	U
75-00-3	Chloroethane	120	U
75-69-4	Trichlorofluoromethane	120	U
75-35-4	1,1-Dichloroethene	120	U
67-64-1	Acetone	120	U
75-15-0	Carbon Disulfide	120	U
75-09-2	Methylene Chloride	120	U
156-60-5	trans-1,2-Dichloroethene	120	U
75-34-3	1,1-Dichloroethane	120	U
108-05-4	Vinyl Acetate	120	U
78-93-3	2-Butanone	120	U
156-59-2	cis-1,2-Dichloroethene	120	U
67-66-3	Chloroform	120	U
71-55-6	1,1,1-Trichloroethane	120	U
56-23-5	Carbon Tetrachloride	120	U
71-43-2	Benzene	120	U
107-06-2	1,2-Dichloroethane	120	U
79-01-6	Trichloroethene	120	U
78-87-5	1,2-Dichloropropane	120	U
75-27-4	Bromodichloromethane	120	U
110-75-8	2-Chloroethyl vinyl ether	120	U
10061-01-5	cis-1,3-Dichloropropene	120	U
108-10-1	4-Methyl-2-Pentanone	120	U
108-88-3	Toluene	120	U
10061-02-6	trans-1,3-Dichloropropene	120	U
79-00-5	1,1,2-Trichloroethane	120	U
127-18-4	Tetrachloroethene	120	U
591-78-6	2-Hexanone	120	U
124-48-1	Dibromochloromethane	120	U
108-90-7	Chlorobenzene	120	U
100-41-4	Ethylbenzene	120	U

1A

FIELD ID:

VOLATILE ORGANICS ANALYSIS DATA SHEET

614C

Lab Name: FMETL NJDEP#: 13461

Project: 06-34880 Case No.: 60057 Location: 614 SDG No.: UST

Matrix: (soil/water) SOIL Lab Sample ID: 6005702

Sample wt/vol: 10.2 (g/ml) G Lab File ID: VB021637.D

Level: (low/med) MED Date Received: 1/26/2006

% Moisture: not dec. 19.37 Date Analyzed: 2/7/2006

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	240	U
95-47-6	o-Xylene	120	U
100-42-5	Styrene	120	U
75-25-2	Bromoform	120	U
79-34-5	1,1,2,2-Tetrachloroethane	120	U
541-73-1	1,3-Dichlorobenzene	120	U
106-46-7	1,4-Dichlorobenzene	120	U
95-50-1	1,2-Dichlorobenzene	120	U
91-20-3	Naphthalene	120	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: 614C

Lab Name: FMETL NJDEP#: 13461

Project: 06-34880 Case No.: 60057 Location: 614 SDG No.: UST

Matrix: (soil/water) SOIL Lab Sample ID: 6005702

Sample wt/vol: 10.2 (g/ml) G Lab File ID: VB021637.D

Level: (low/med) MED Date Received: 1/26/2006

% Moisture: not dec. 19.37 Date Analyzed: 2/7/2006

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: 4

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	5.11	980	J
2. 000079-20-9	Acetic acid, methyl ester	12.44	9100	JN
3. 001112-39-6	Silane, dimethoxydimethyl-	17.38	1200	JN
4. 000554-12-1	Propanoic acid, methyl ester	17.83	670	JN

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: FMETL NJDEP#: 13461

Project: 06-34880 Case No.: 60057 Location: 614 SDG No.: UST

Lab File ID: VB021627.D BFB Injection Date: 2/7/2006

Instrument ID: GCMS#2 BFB Injection Time: 15:20

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	19.4
75	30.0 - 66.0% of mass 95	52.8
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	75.1
175	4.0 - 9.0% of mass 174	5.4 (7.2)1
176	93.0 - 101.0% of mass 174	73.4 (97.8)1
177	5.0 - 9.0% of mass 176	4.8 (6.5)2

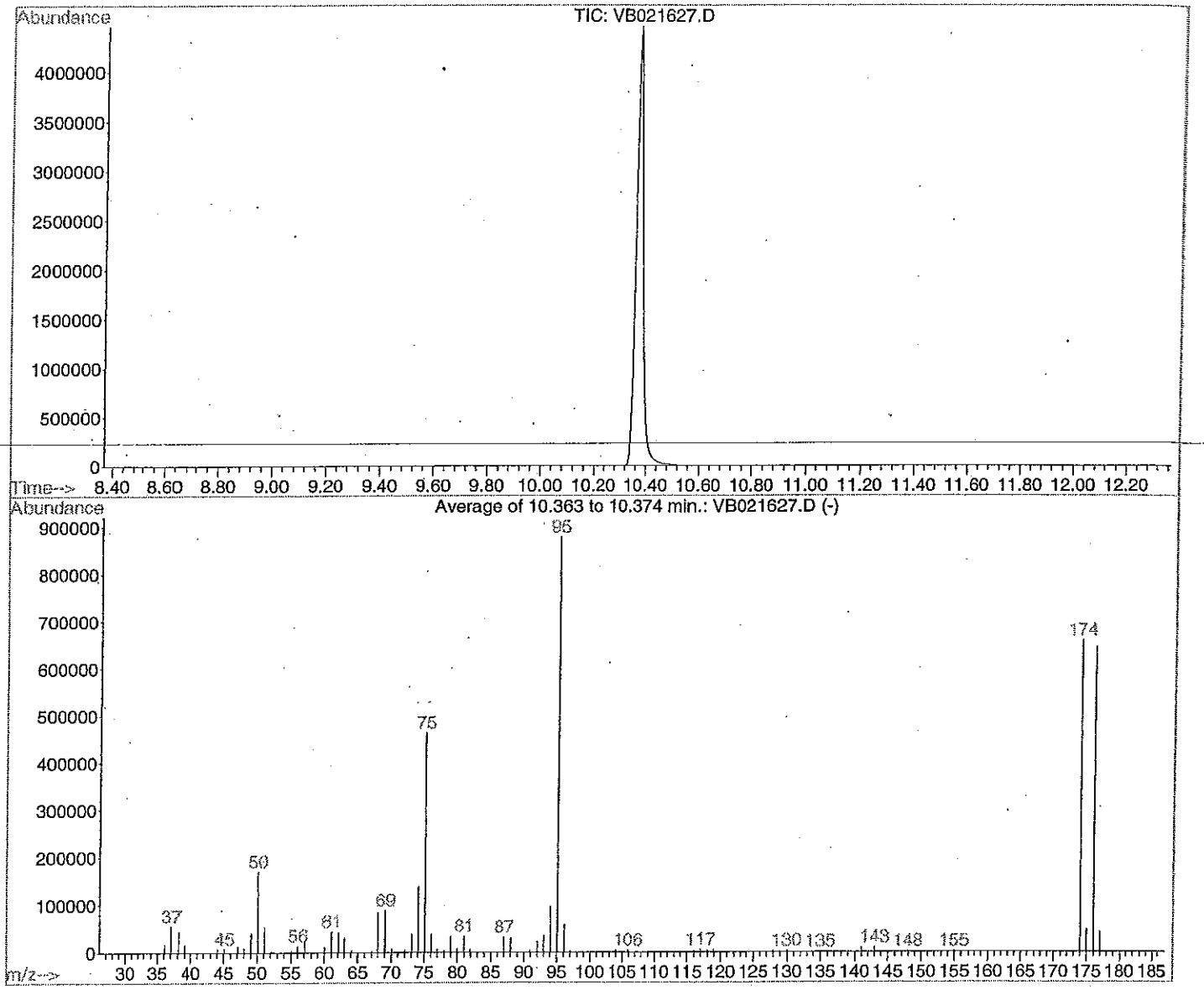
1-Value is % mass 174 2-Value is % mass 176

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	VB021628.D	2/7/2006	15:50
02	VSTD005	VSTD005	VB021629.D	2/7/2006	16:31
03	VSTD002	VSTD002	VB021630.D	2/7/2006	17:11
04	VSTD050	VSTD050	VB021631.D	2/7/2006	17:52
05	VSTD020	VSTD020	VB021632.D	2/7/2006	18:32
06	MB 07FEB2006	MB 07FEB2006	VB021635.D	2/7/2006	20:34
07	TRIP BLANK	6005607	VB021636.D	2/7/2006	21:15
08	614C	6005702	VB021637.D	2/7/2006	21:55

Data File : C:\HPCHEM\1\DATA\060207\VB021627.D
Acq On : 7 Feb 2006 3:20 pm
Sample : BFB Tune
Misc : BFB Tune
MS Integration Params: GAS10.P
Method : C:\HPCHEM\1\METHODS\M2VO231.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 163, 164, 165; Background Corrected with Scan 153

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.4	170859	PASS
75	95	30	60	52.8	463787	PASS
95	95	100	100	100.0	878592	PASS
96	95	5	9	6.6	57872	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	75.1	659413	PASS
175	174	5	9	7.2	47768	PASS
176	174	95	101	97.8	644608	PASS
177	176	5	9	6.5	42168	PASS

VB021627.D M2VO231.M Wed Mar 01 13:13:58 2006

Response Factor Report GC/MS Ins

Method : C:\HPCHEM\1\METHODS\M2VO231.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Wed Feb 08 15:05:52 2006
Response via : Initial Calibration

Calibration Files
50 =VB021631.D 20 =VB021632.D 10 =VB021628.D
5 =VB021629.D 2 =VB021630.D

		Compound	50	20	10	5	2	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------						
2)	tm	Acrolein	0.090	0.077	0.063	0.069	0.046	0.069	24.06
3)	tm	Acrylonitrile	0.833	0.735	0.789	0.774	0.678	0.762	7.69
4)	tm	tert-Butyl alcohol	0.097	0.093	0.090	0.103	0.093	0.095	5.11
5)	tm	Methyl-tert-Butyl eth	4.833	4.005	4.052	3.915	3.424	4.046	12.52
6)	tm	Di-isopropyl ether	1.825	1.556	1.465	1.397	1.173	1.483	16.03
7)	Tm	Dichlorodifluorometha	1.674	1.521	1.919	1.960	1.920	1.799	10.69
8)	TPm	Chloromethane	2.202	2.120	2.465	2.598	2.589	2.395	9.26
9)	TCm	Vinyl Chloride	2.292	2.139	2.454	2.527	2.399	2.362	6.40
10)	Tm	Bromomethane	1.582	1.456	1.651	1.666	1.436	1.558	6.89
11)	Tm	Chloroethane	1.796	1.676	2.500	2.497	2.719	2.238	20.94
12)	Tm	Trichlorofluoromethan	4.399	4.044	4.571	4.695	4.542	4.450	5.63
13)	MC	1,1-Dichloroethene	3.239	2.913	2.920	3.000	2.744	2.963	6.09
14)	Tm	Acetone	0.496	0.550	0.795	1.194	2.255	1.058	68.40
15)	Tm	Carbon Disulfide	6.569	5.887	6.194	6.128	5.870	6.130	4.64
16)	Tm	Methylene Chloride	2.449	2.291	2.470	2.640	2.534	2.477	5.15
17)	Tm	trans-1,2-Dichloroeth	3.184	2.937	2.960	3.092	2.801	2.995	4.94
18)	TPm	1,1-Dichloroethane	4.153	3.740	3.993	4.085	3.800	3.954	4.52
19)	Tm	Vinyl Acetate	1.297	1.041	0.989	0.961	0.879	1.033	15.33
20)	Tm	2-Butanone	0.630	0.513	0.517	0.539	0.507	0.542	9.42
21)	Tm	cis-1,2-Dichloroethen	3.316	3.000	2.963	3.022	2.723	3.005	7.03
22)	TCm	Chloroform	4.265	4.071	4.347	4.539	4.241	4.293	3.97
23)	Tm	1,1,1-Trichloroethane	3.761	3.315	3.260	3.214	2.882	3.286	9.57
24)	Tm	Carbon Tetrachloride	3.241	2.838	2.870	2.933	2.651	2.907	7.37
25)	S	1,2-Dichloroethane-d4	4.003	3.921	3.988	4.014	3.794	3.944	2.31
26)	I	1,4-Difluorobenzene	----------ISTD----------						
27)	TM	Benzene	1.415	1.239	1.376	1.388	1.244	1.333	6.31
28)	Tm	1,2-Dichloroethane	0.479	0.423	0.483	0.498	0.468	0.470	6.09
29)	TM	Trichloroethene	0.368	0.314	0.341	0.340	0.310	0.335	6.97
30)	TCm	1,2-Dichloropropane	0.334	0.290	0.315	0.319	0.298	0.311	5.60
31)	Tm	Bromodichloromethane	0.459	0.390	0.434	0.428	0.395	0.421	6.84
32)	Tm	2-Chloroethyl vinyl e	0.188	0.147	0.145	0.134	0.124	0.148	16.74
33)	Tm	cis-1,3-Dichloroprope	0.572	0.468	0.480	0.442	0.378	0.468	14.95
34)	Tm	4-Methyl-2-Pentanone	0.073	0.059	0.058	0.060	0.055	0.061	11.53
35)	S	Toluene-d8	1.312	1.202	1.234	1.159	1.015	1.184	9.27
36)	TCM	Toluene	1.602	1.401	1.550	1.529	1.296	1.476	8.46
37)	I	Chlorobenzene-d5	----------ISTD----------						
38)	Tm	trans-1,3-Dichloropro	1.967	1.676	1.585	1.452	1.264	1.589	16.48
39)	Tm	1,1,2-Trichloroethane	1.145	1.071	1.130	1.137	1.080	1.113	3.10
40)	Tm	Tetrachloroethene	1.523	1.422	1.489	1.490	1.368	1.458	4.27
41)	Tm	2-Hexanone	0.420	0.364	0.338	0.347	0.347	0.363	9.13
42)	Tm	Dibromochloromethane	1.243	1.093	1.108	1.069	0.941	1.091	9.88
43)	TMP	Chlorobenzene	3.897	3.653	3.967	3.975	3.888	3.876	3.38
44)	TCm	Ethylbenzene	6.752	6.244	6.531	6.438	5.904	6.374	5.01
45)	Tm	m+p-Xylenes	2.468	2.228	2.305	2.199	1.857	2.211	10.12
46)	Tm	o-Xylene	5.118	4.659	4.568	4.106	3.360	4.362	15.26
47)	Tm	Styrene	3.788	3.315	3.290	2.980	2.359	3.147	16.73
48)	TPm	Bromoform	0.824	0.715	0.726	0.687	0.646	0.720	9.20
49)	S	Bromofluorobenzene	1.882	1.741	1.676	1.515	1.432	1.649	10.86
50)	TPm	1,1,2,2-Tetrachloroet	1.231	1.189	1.215	1.255	1.133	1.204	3.88
51)	Tm	1,3-Dichlorobenzene	2.607	2.439	2.387	2.364	2.128	2.385	7.22
52)	Tm	1,4-Dichlorobenzene	2.793	2.655	2.589	2.509	2.191	2.547	8.82
53)	Tm	1,2-Dichlorobenzene	2.347	2.278	2.203	2.207	2.001	2.207	5.87
54)	Tm	Naphthalene	0.446	0.639	0.412	0.516	0.586	0.520	18.21

(#) = Out of Range

000052

4A

FIELD ID:

VOLATILE METHOD BLANK SUMMARY

MB 07Feb2006

Lab Name: FMETL NJDEP#: 13461

Project: 06-34880 Case No.: 60057 Location: 614 SDG No.: UST

Lab File ID: VB021635.D Lab Sample ID: MB 07Feb2006

Date Analyzed: 2/7/2006 Time Analyzed: 20:34

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	TRIP BLANK	6005607	VB021636.D	21:15
02	614C	6005702	VB021637.D	21:55

COMMENTS:

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	FMETL	**Project**	60057
NJDEP #	13461	**Location**	06-34880 692

	EPA SAMPLE NO.	SMC1 1,2-DCE-d4	SMC2 Tol-d8	SMC3 BFB
01	MB 17Jan2006	91%	98%	93%
02	Trip Blank	116%	118%	111%
03	614C	112%	113%	114%

SMC1	1,2-DCE-d4	=	1,2-Dichloroethane-d4
SMC2	Tol-d8	=	Toluene-d8
SMC3	BFB	=	Bromofluorobenzene

D System Monitoring Compounds diluted out

Spike Recovery and RPD Summary Report - Soil

Method : C:\HPCHEM\1\METHODS\M2VO231.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Wed Feb 08 15:05:52 2006
Response via : Initial Calibration

Non-Spiked Sample: VB021637.D

	Spike Sample	Spike Duplicate Sample
File ID :	VB021638.D	VB021639.D
Sample :	6005702 MS	6005702 MSD
Acq Time:	7 Feb 2006 10:36 pm	7 Feb 2006 11:16 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
Acrolein	0.0	50	60	57	119	115	4	20	59-137
Acrylonitrile	0.0	50	51	50	103	101	2	20	68-127
tert-Butyl alcohol	0.0	100	82	104	82	104	25#	20	17-167
Methyl-tert-Butyl et	0.0	10	12	12	117#	116	1	20	74-116
Di-isopropyl ether	0.0	10	12	12	125#	119#	5	20	77-117
Dichlorodifluorometh	0.0	10	9	9	86	86	1	20	50-131
Chloromethane	0.0	10	10	10	105	103	1	20	65-123
Vinyl Chloride	0.0	10	11	10	107	103	3	20	63-125
Bromomethane	0.0	10	10	10	98	100	1	20	72-118
Chloroethane	0.0	10	3	2	25#	24#	6	20	64-127
Trichlorofluorometha	0.0	10	5	4	46#	42#	10	20	60-122
1,1-Dichloroethene	0.0	10	11	11	109	109	1	20	68-116
Acetone	0.0	10	9	9	94	92	2	20	2-148
Carbon Disulfide	0.0	10	10	10	96	96	0	20	69-117
Methylene Chloride	0.0	10	11	11	109	109	1	20	79-110
trans-1,2-Dichloroet	0.0	10	11	11	113#	114#	1	20	73-113
1,1-Dichloroethane	0.0	10	9	9	88	87	2	20	77-112
Vinyl Acetate	0.0	10	11	11	108	109	1	20	52-127
2-Butanone	0.0	10	11	11	115	114	0	20	12-162
cis-1,2-Dichloroethe	0.0	10	11	11	112	112	0	20	74-114
Chloroform	0.0	10	11	11	109	108	1	20	79-110
1,1,1-Trichloroethan	0.0	10	11	11	113	113	0	20	73-114
Carbon Tetrachloride	0.0	10	10	10	101	99	1	20	69-115
Benzene	0.0	10	10	10	103	101	2	20	78-112
1,2-Dichloroethane	0.0	10	10	10	101	100	2	20	78-115
Trichloroethene	0.0	10	10	10	103	101	1	20	74-114
1,2-Dichloropropane	0.0	10	10	10	103	102	1	20	77-113
Bromodichloromethane	0.0	10	9	9	91	89	2	20	77-113
2-Chloroethyl vinyl	0.0	10	10	10	99	99	0	20	67-117
cis-1,3-Dichloroprop	0.0	10	10	10	100	99	1	20	75-116
4-Methyl-2-Pentanone	0.0	10	10	10	97	98	1	20	33-146
Toluene	0.0	10	10	10	104	103	2	20	80-113
trans-1,3-Dichloropr	0.0	10	10	10	97	97	0	20	75-117
1,1,2-Trichloroethan	0.0	10	10	10	98	96	2	20	78-116
Tetrachloroethene	0.0	10	10	10	99	98	1	20	73-115
2-Hexanone	0.0	10	10	10	98	97	0	20	30-147
Dibromochloromethane	0.0	10	9	8	86	85	2	20	77-115
Chlorobenzene	0.0	10	10	9	97	95	2	20	78-112
Ethylbenzene	0.0	10	10	10	98	95	3	20	77-113
m+p-Xylenes	0.0	20	20	19	99	96	3	20	76-115
o-Xylene	0.0	10	11	10	107	105	2	20	74-118
Styrene	0.0	10	9	9	93	91	3	20	77-116
Bromoform	0.0	10	8	8	79	77	2	20	72-116
1,1,2,2-Tetrachloroe	0.0	10	9	9	88	88	0	20	73-120
1,3-Dichlorobenzene	0.0	10	10	10	98	103	5	20	75-114
1,4-Dichlorobenzene	0.0	10	9	10	94	99	5	20	75-116
1,2-Dichlorobenzene	0.0	10	9	10	91	98	7	20	76-115
Naphthalene	0.0	10	5	6	50#	65#	27#	20	70-120

- Fails Limit Check

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: FMETL NJDEP#: 13461

Project: 06-34880 Case No.: 60057 Location: 614 SDG No.: UST

Lab File ID (Standard): VB021628.D Date Analyzed: 2/7/2006

Instrument ID: GCMS#2 Time Analyzed: 15:50

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	371081	16.43	2603119	19.62	677143	25.65
	UPPER LIMIT	742162	16.93	5206238	20.12	1354286	26.15
	LOWER LIMIT	185541	15.93	1301560	19.12	338572	25.15
	FIELD ID:						
01	MB 07FEB2006	362902	16.43	2581364	19.62	678449	25.65
02	TRIP BLANK	347697	16.44	2725319	19.62	693339	25.65
03	614C	349730	16.44	2721651	19.62	695834	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

Quantitation Report (QT/LSC Reviewed)

Data File : C:\HPCHEM\1\DATA\060207\VB021635.D Vial: 8
Acq On : 7 Feb 2006 8:34 pm Operator: Skelton
Sample : MB 07Feb2006 Inst : GC/MS Ins
Misc : MB 07Feb2006 Multiplr: 1.00
MS Integration Params: GAS10.P
Quant Time: Feb 8 8:35 2006 Quant Results File: M2VO231.RES

Quant Method : C:\HPCHEM\1\METHODS\M2VO231.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Wed Feb 08 08:21:21 2006
Response via : Initial Calibration
DataAcq Meth : M2VO231

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	16.43	128	362902	30.00	ug/L	0.00
26) 1,4-Difluorobenzene	19.62	114	2581364	30.00	ug/L	0.00
37) Chlorobenzene-d5	25.65	119	678449	30.00	ug/L	0.00
System Monitoring Compounds						
25) 1,2-Dichloroethane-d4	18.45	65	971892	27.16	ug/L	0.00
Spiked Amount 30.000	Range 70 - 120		Recovery = 90.53%			
35) Toluene-d8	22.56	98	2989345	29.33	ug/L	0.00
Spiked Amount 30.000	Range 70 - 120		Recovery = 97.77%			
49) Bromofluorobenzene	27.99	95	1044373	28.00	ug/L	0.00
Spiked Amount 30.000	Range 70 - 120		Recovery = 93.33%			
Target Compounds						Qvalue
14) Acetone	11.94	43	45398	3.55	ug/L	91

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

000057

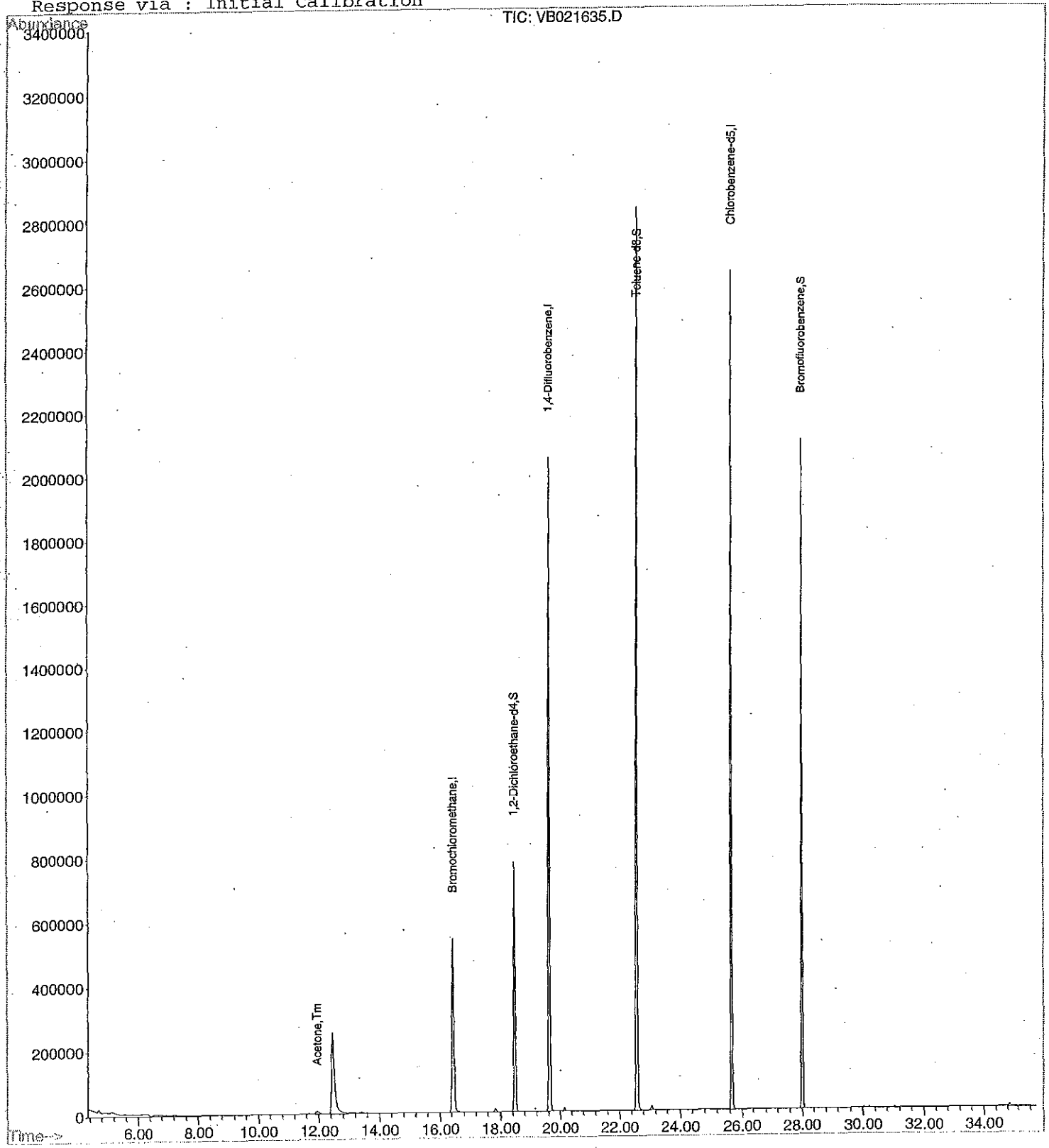
Quantitation Report

Data File : C:\HPCHEM\1\DATA\060207\VB021635.D
Acq On : 7 Feb 2006 8:34 pm
Sample : MB 07Feb2006
Misc : MB 07Feb2006
MS Integration Params: GAS10.P
Quant Time: Feb 8 8:35 2006

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

Quant Results File: M2VO231.RES

Method : C:\HPCHEM\1\METHODS\M2VO231.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Wed Feb 08 15:05:52 2006
Response via : Initial Calibration



000058

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060207\VB021636.D
Acq On : 7 Feb 2006 9:15 pm
Sample : 6005607
Misc : Trip Blank
MS Integration Params: GAS10.P
Quant Time: Feb 8 8:35 2006

Vial: 9
Operator: Skelton
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: M2VO231.RES

Quant Method : C:\HPCHEM\1\METHODS\M2VO231.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Wed Feb 08 08:21:21 2006
Response via : Initial Calibration
DataAcq Meth : M2VO231

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	16.44	128	347697	30.00	ug/L	0.01
26) 1,4-Difluorobenzene	19.62	114	2725319	30.00	ug/L	0.00
37) Chlorobenzene-d5	25.65	119	693339	30.00	ug/L	0.00
System Monitoring Compounds						
25) 1,2-Dichloroethane-d4	18.45	65	1296975	37.83	ug/L	0.00
Spiked Amount 30.000	Range 70 - 120		Recovery = 126.10%#			
35) Toluene-d8	22.56	98	4111228	38.21	ug/L	0.00
Spiked Amount 30.000	Range 70 - 120		Recovery = 127.37%#			
49) Bromofluorobenzene	27.99	95	1375930	36.10	ug/L	0.00
Spiked Amount 30.000	Range 70 - 120		Recovery = 120.33%#			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
VB021636.D M2VO231.M Wed Feb 08 08:46:22 2006

000059

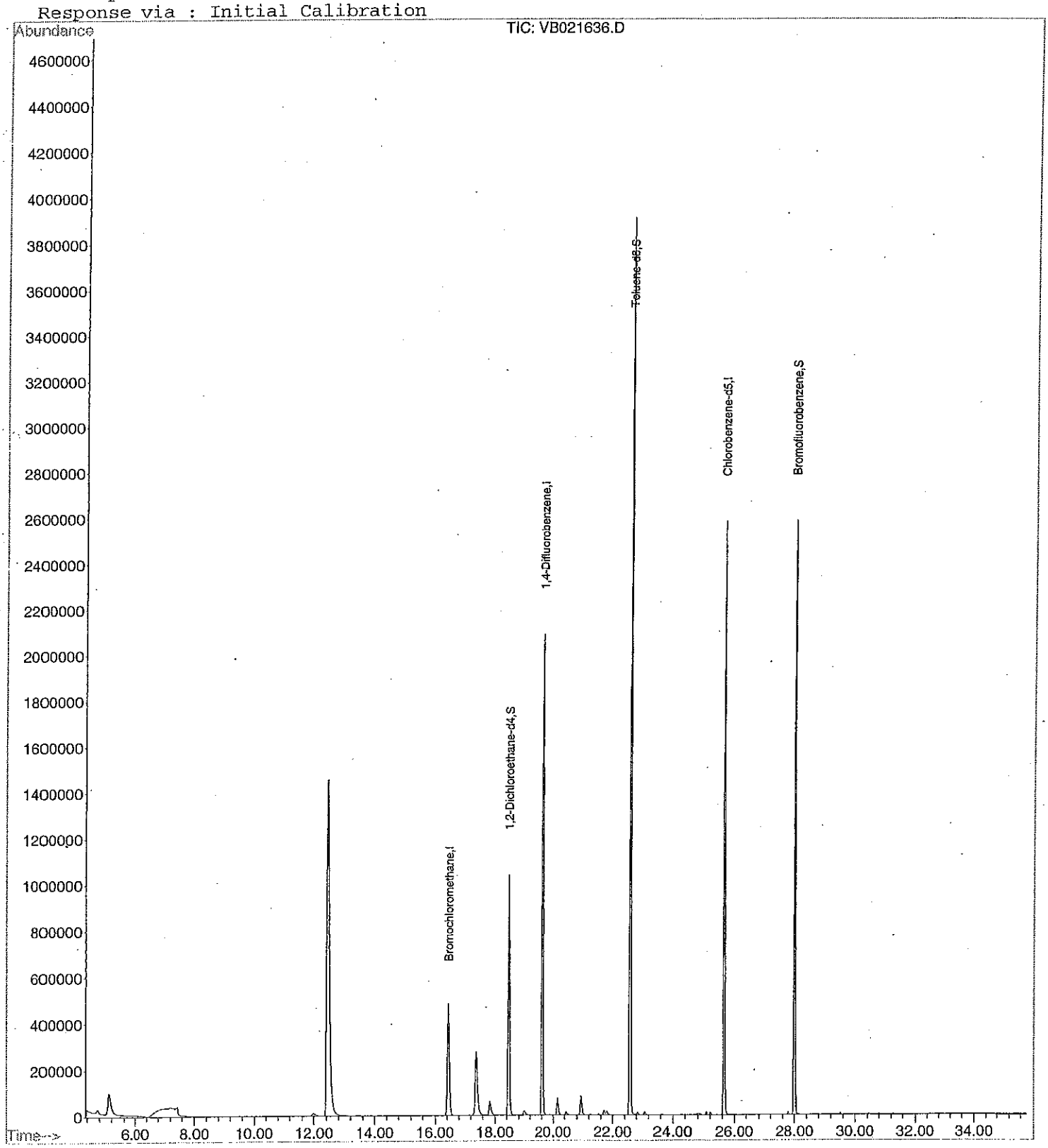
Quantitation Report

Data File : C:\HPCHEM\1\DATA\060207\VB021636.D
Acq On : 7 Feb 2006 9:15 pm
Sample : 6005607
Misc : Trip Blank
MS Integration Params: GAS10.P
Quant Time: Feb 8 8:35 2006

Vial: 9
Operator: Skelton
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: M2VO231.RES

Method : C:\HPCHEM\1\METHODS\M2VO231.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Wed Feb 08 08:21:21 2006
Response via : Initial Calibration



000060

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060207\VB021637.D Vial: 10
Acq On : 7 Feb 2006 9:55 pm Operator: Skelton
Sample : 6005702 Inst : GC/MS Ins
Misc : 6005702 Multiplr: 1.00
MS Integration Params: GAS10.P
Quant Time: Feb 8 8:35 2006 Quant Results File: M2VO231.RES

Quant Method : C:\HPCHEM\1\METHODS\M2VO231.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Wed Feb 08 08:21:21 2006
Response via : Initial Calibration
DataAcq Meth : M2VO231

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	16.44	128	349730	30.00	ug/L	0.01
26) 1,4-Difluorobenzene	19.62	114	2721651	30.00	ug/L	0.00
37) Chlorobenzene-d5	25.65	119	695834	30.00	ug/L	0.00
System Monitoring Compounds						
25) 1,2-Dichloroethane-d4	18.45	65	1254693	36.39	ug/L	0.00
Spiked Amount 30.000	Range 70 - 120		Recovery = 121.30%#			
35) Toluene-d8	22.56	98	3949059	36.75	ug/L	0.00
Spiked Amount 30.000	Range 70 - 120		Recovery = 122.50%#			
49) Bromofluorobenzene	27.99	95	1412343	36.92	ug/L	0.00
Spiked Amount 30.000	Range 70 - 120		Recovery = 123.07%#			

Target Compounds Qvalue

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

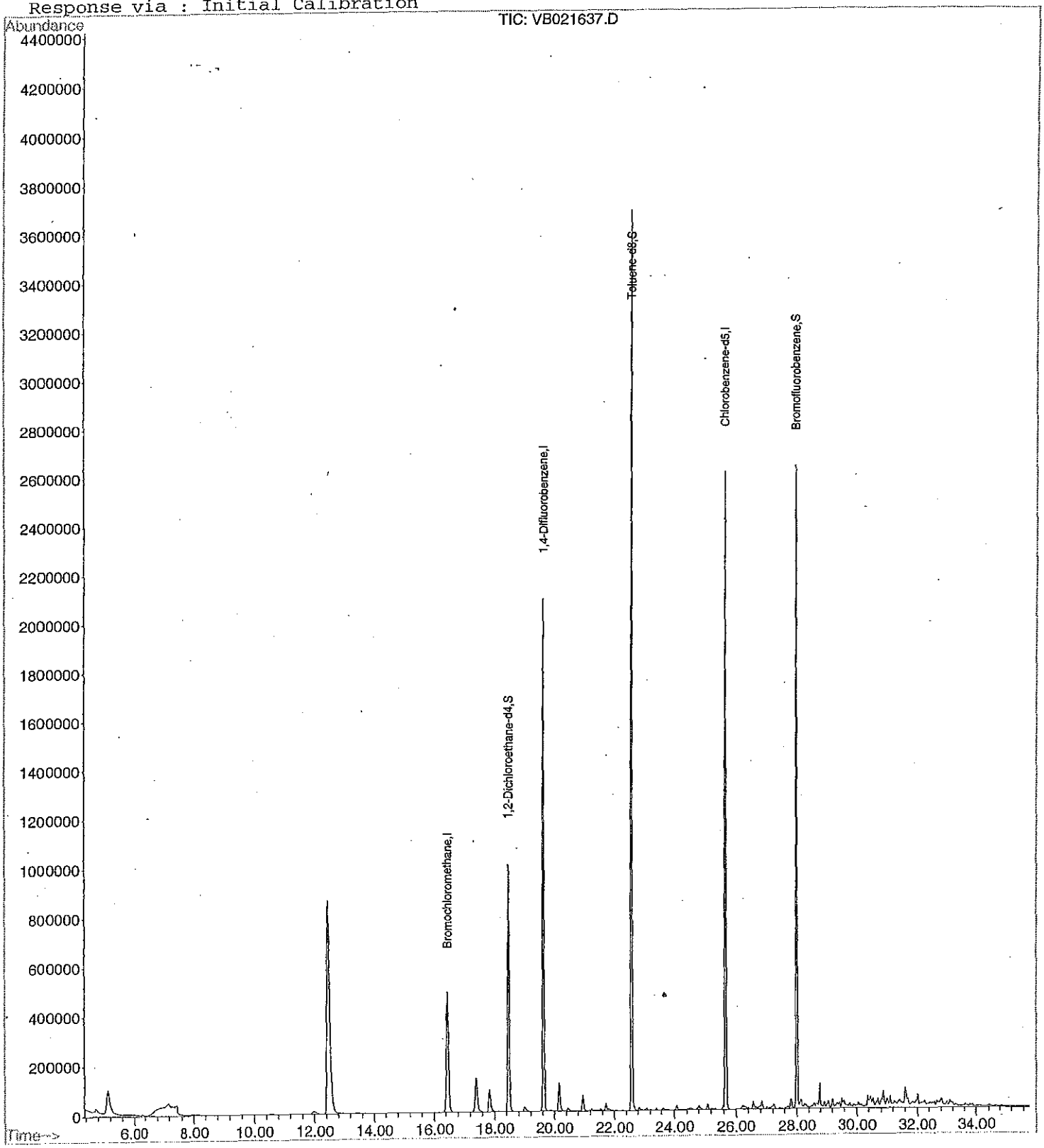
Quantitation Report

Data File : C:\HPCHEM\1\DATA\060207\VB021637.D
Acq On : 7 Feb 2006 9:55 pm
Sample : 6005702
Misc : 6005702
MS Integration Params: GAS10.P
Quant Time: Feb 8 8:35 2006

Vial: 10
Operator: Skelton
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: M2VO231.RES

Method : C:\HPCHEM\1\METHODS\M2VO231.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Wed Feb 08 08:21:21 2006
Response via : Initial Calibration



000062

SEMI-VOLATILE ORGANICS

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	BNA11471.D	Sample Name	MB-012706-01
Operator	BPatel	Misc Info	MB-012706-01
Date Acquired	30-Jan-06	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	0.8	0.60	10.00	ug/L	
62-53-3	Aniline			not detected	6	2.38	10.00	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	7	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	2000	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	10	0.76	10.00	ug/L	
67-72-1	Hexachloroethane			not detected	7	0.96	10.00	ug/L	
98-95-3	Nitrobenzene			not detected	6	0.86	10.00	ug/L	
78-59-1	Isophorone			not detected	40	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	300	0.76	10.00	ug/L	
106-47-8	4-Chloroaniline			not detected	30	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	40	0.92	10.00	ug/L	
91-58-7	2-Chloronaphthalene			not detected	600	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	NLE	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	10	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	6000	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	10	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	0.02	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	700	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	BNA11471.D	Sample Name	MB-012706-01
Operator	BPatel	Misc Info	MB-012706-01
Date Acquired	30-Jan-06	Sample Multiplier	1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL		Qualifiers
92-87-5	Benzidine			not detected	20	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	0.1	0.82	10.00	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	30	1.31	10.00	ug/L	
218-01-9	Chrysene			not detected	5	0.77	10.00	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	3	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	0.2	0.98	10.00	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	0.5	0.92	10.00	ug/L	
50-32-8	Benzo[a]pyrene			not detected	0.1	0.71	10.00	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.2	0.76	10.00	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	0.3	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

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MB-012706-01

Lab Name: FMETL Lab Code 13461

Project: 06-34880 Case No.: 60057 Location: 614 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: MB-012706-01

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA11471.D

Level: (low/med) LOW Date Received: 1/26/2006

% Moisture: _____ decanted: (Y/N) N Date Extracted: 1/27/2006

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 1/30/2006

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	**BNA11482.D**	Sample Name	**6005704**
Operator	**BPatel**	Misc Info	**614C-GW**
Date Acquired	**30-Jan-06**	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	0.8	0.60	10.00	ug/L	
62-53-3	Aniline			not detected	6	2.38	10.00	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	7	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	2000	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	10	0.76	10.00	ug/L	
67-72-1	Hexachloroethane			not detected	7	0.96	10.00	ug/L	
98-95-3	Nitrobenzene			not detected	6	0.86	10.00	ug/L	
78-59-1	Isophorone			not detected	40	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	13.33	298045	4.21 ug/L	300	0.76	10.00	ug/L	
106-47-8	4-Chloroaniline			not detected	30	1.37	10.00	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.99	10.00	ug/L	
91-57-6	2-Methylnaphthalene	14.99	716201	15.61 ug/L	NLE	1.01	10.00	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	40	0.92	10.00	ug/L	
91-58-7	2-Chloronaphthalene			not detected	600	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	NLE	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	10	0.71	10.00	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.18	10.00	ug/L	
83-32-9	Acenaphthene	17.57	103283	2.50 ug/L	400	0.73	10.00	ug/L	
132-64-9	Dibenzofuran	18.00	47196	0.78 ug/L	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	6000	0.96	10.00	ug/L	
86-73-7	Fluorene	18.82	48483	0.96 ug/L	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	10	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	0.02	0.95	10.00	ug/L	
85-01-8	Phenanthrene	21.13	189412	2.37 ug/L	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	700	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	**BNA11482.D**	Sample Name	**6005704**
Operator	**BPatel**	Misc Info	**614C-GW**
Date Acquired	**30-Jan-06**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL		Qualifiers
92-87-5	Benzidine			not detected	20	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	0.1	0.82	10.00	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	30	1.31	10.00	ug/L	
218-01-9	Chrysene			not detected	5	0.77	10.00	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	3	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	0.2	0.98	10.00	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	0.5	0.92	10.00	ug/L	
50-32-8	Benzo[a]pyrene			not detected	0.1	0.71	10.00	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.2	0.76	10.00	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	0.3	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
MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time
RL= Reporting Limit. The values between the MDL and RL are considered estimated.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
614C-GW

Lab Name: FMETL Lab Code 13461

Project: 06-34880 Case No.: 60057 Location: 614 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 6005704

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA11482.D

Level: (low/med) LOW Date Received: 1/26/2006

% Moisture: decanted: (Y/N) N Date Extracted: 1/27/2006

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 1/30/2006

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 20 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	000496-11-7	Indane	10.76	5	JN
2.	056253-64-6	Benzene, (2-methyl-1-butenyl)-	13.44	7	JN
3.	003877-19-8	Naphthalene, 1,2,3,4-tetrahydro-2	13.78	5	JN
4.	001680-51-9	Naphthalene, 1,2,3,4-tetrahydro-6	14.52	8	JN
5.	002142-73-6	Ethanone, 1-(2,5-dimethylphenyl)	14.59	7	JN
6.	000264-09-5	Benzocycloheptatriene	15.22	14	JN
7.	000000-00-0	1,4-Dimethyl-1,2,3,4-tetrahydrona	15.29	4	JN
8.	000092-52-4	Biphenyl	16.13	4	JN
9.	000873-66-5	Benzene, 1-propenyl-, (E)-	16.28	21	JN
10.		unknown	16.52	23	J
11.	000582-16-1	Naphthalene, 2,7-dimethyl-	16.70	15	JN
12.	000575-43-9	Naphthalene, 1,6-dimethyl-	16.76	6	JN
13.	000581-40-8	Naphthalene, 2,3-dimethyl-	16.97	4	JN
14.	006939-35-1	1(2H)-Naphthalenone, 3,4-dihydr	17.94	19	JN
15.	002131-42-2	Naphthalene, 1,4,6-trimethyl-	18.30	6	JN
16.	005037-60-5	1H-Inden-1-one, 2,3-dihydro-4,7-	18.56	6	JN
17.	000093-08-3	2-Naphthyl methyl ketone	19.13	7	JN
18.	051015-31-7	1(2H)-Naphthalenone, 5-ethyl-3,4	19.21	5	JN
19.		unknown	19.70	4	J
20.		unknown	22.07	6	J

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: FMETL Lab Code 13461

Project: 06-34880 Case No.: 60057 Location: 614 SDG No.:

Lab File ID: BNA11332.D DFTPP Injection Date: 11/3/2005

Instrument ID: GC_BNA_2 DFTPP Injection Time: 9:33

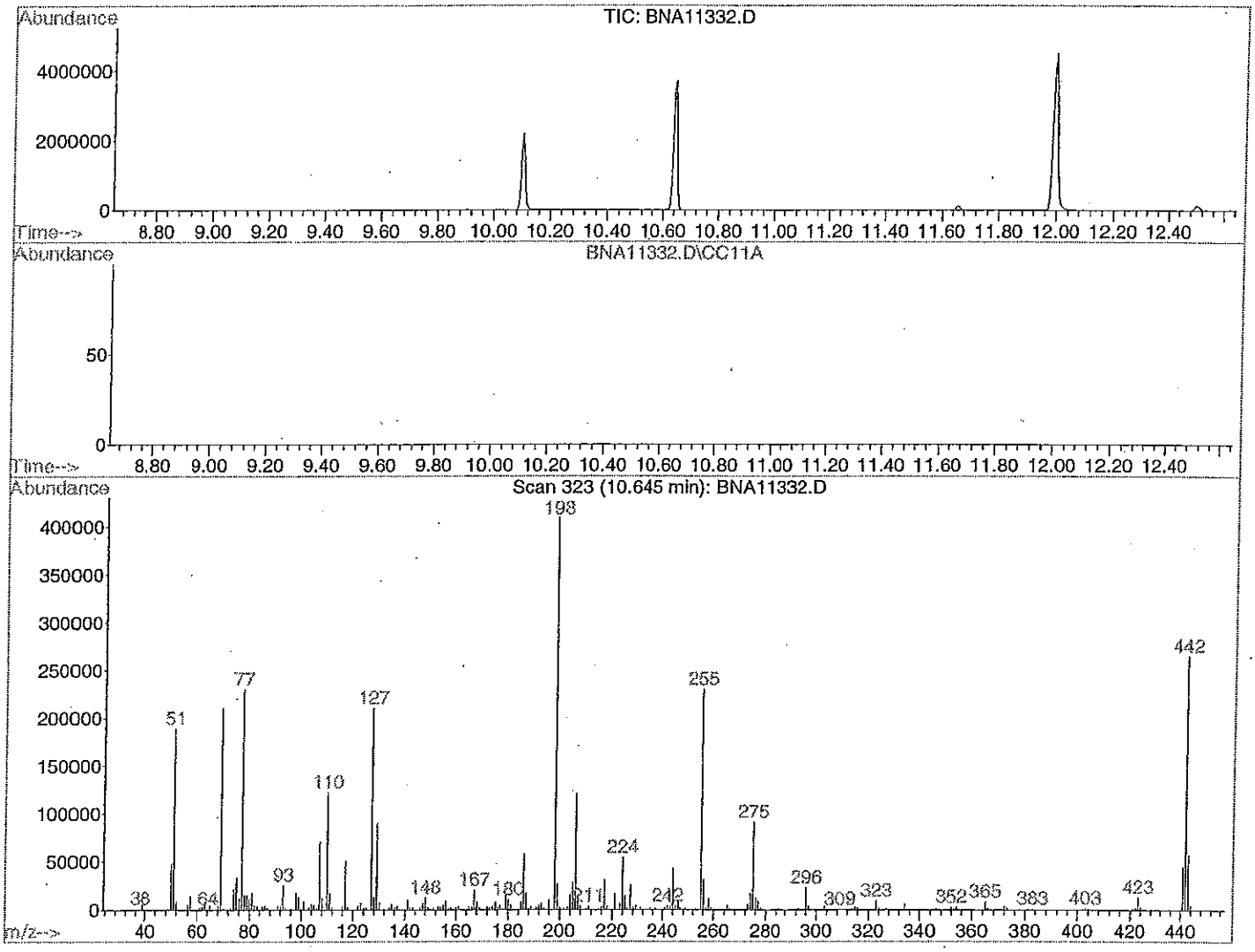
m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	46.2
68	Less than 2.0% of mass 69	0.9 (1.8)1
69	Mass 69 Relative abundance	51.6
70	Less than 2.0% of mass 69	0.4 (0.7)1
127	25.0 - 75.0% of mass 198	51.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	22.3
365	Greater than 0.75% of mass 198	2.1
441	Present, but less than mass 443	10.9
442	40.0 - 110.0% of mass 198	64.7
443	15.0 - 24.0% of mass 442	13.9 (21.6)2

1-Value is % mass 69 2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD120	SSTD120	BNA11333.D	11/3/2005	9:57
02	SSTD010	SSTD010	BNA11334.D	11/3/2005	10:40
03	SSTD050	SSTD050	BNA11335.D	11/3/2005	11:24
04	SSTD020	SSTD020	BNA11336.D	11/3/2005	12:08
05	SSTD080	SSTD080	BNA11337.D	11/3/2005	12:51

Data File : C:\HPCHEM\1\DATA\051103\BNA11332.D Vial: 99
Acq On : 3 Nov 2005 9:33 am Operator: BPatel
Sample : DFTPP Tune Inst : GC/MS Ins
Misc : SV080105.01 Multiplr: 1.00
MS Integration Params: ODD.P GC Integration Params: rteint2.p
Method : C:\HPCHEM\1\METHODS\M262593.M (RTE Integrator)
Title : BNA Calibration



Spectrum Information: Scan 323

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.2	189312	PASS
68	69	0.00	2	1.8	3845	PASS
69	198	0.00	100	51.6	211392	PASS
70	69	0.00	2	0.7	1460	PASS
127	198	40	60	51.4	210752	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	409984	PASS
199	198	5	9	6.5	26680	PASS
275	198	10	30	22.3	91280	PASS
365	198	1	100	2.1	8485	PASS
441	443	1	99	77.9	44552	PASS
442	198	40	100	64.7	265088	PASS
443	442	17	23	21.6	57184	PASS

Response Factor Report GC/MS Ins

Method : C:\HPCHEM\1\METHODS\M262593.M (RTE Integrator)
Title : BNA Calibration
Last Update : Thu Nov 03 13:40:19 2005
Response via : Initial Calibration

Calibration Files
120 =BNA11333.D 80 =BNA11337.D 50 =BNA11335.D
20 =BNA11336.D 10 =BNA11334.D

		Compound	120	80	50	20	10	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------ISTD----------						
2)	T	Pyridine	1.621	1.540	1.525	1.532	1.462	1.536	3.69
3)	T	N-nitroso-dimethylami	0.882	0.832	0.827	0.831	0.748	0.824	5.85
4)	S	2-Fluorophenol	1.316	1.256	1.283	1.229	1.189	1.255	3.88
5)	T	Aniline	2.399	2.297	2.313	2.310	2.223	2.308	2.70
6)	S	Phenol-d6	1.800	1.730	1.751	1.730	1.667	1.736	2.76
7)	TCM	Phenol	2.014	1.926	1.946	1.973	1.886	1.949	2.48
8)	T	bis(2-Chloroethyl)eth	1.410	1.377	1.399	1.388	1.340	1.383	1.93
9)	TM	2-Chlorophenol	1.339	1.297	1.302	1.307	1.266	1.302	1.98
10)	T	1,3-Dichlorobenzene	1.520	1.489	1.511	1.525	1.462	1.501	1.75
11)	TCM	1,4-Dichlorobenzene	1.572	1.558	1.566	1.560	1.519	1.555	1.34
12)	T	Benzyl alcohol	1.025	0.988	1.010	0.991	0.921	0.987	4.06
13)	T	1,2-Dichlorobenzene	1.436	1.413	1.426	1.448	1.367	1.418	2.21
14)	T	2-Methylphenol	1.352	1.322	1.358	1.363	1.315	1.342	1.61
15)	T	bis(2-chloroisopropyl	1.710	1.681	1.728	1.744	1.624	1.697	2.79
16)	T	4-Methylphenol	1.435	1.390	1.416	1.432	1.338	1.402	2.87
17)	TPM	n-Nitroso-di-n-propyl	0.246	0.240	0.244	0.248	0.243	0.244	1.27
18)	T	Hexachloroethane	0.649	0.636	0.653	0.645	0.615	0.639	2.36
19)	I	Naphthalene-d8	----------ISTD----------						
20)	S	Nitrobenzene-d5	0.585	0.587	0.591	0.582	0.571	0.583	1.31
21)	T	Nitrobenzene	0.559	0.561	0.562	0.560	0.554	0.559	0.56
22)	T	Isophorone	0.937	0.933	0.950	0.945	0.946	0.942	0.75
23)	TC	2-Nitrophenol	0.197	0.197	0.197	0.193	0.184	0.194	2.89
24)	T	2,4-Dimethylphenol	0.471	0.476	0.476	0.470	0.473	0.473	0.62
25)	T	bis(2-Chloroethoxy)me	0.495	0.498	0.494	0.502	0.494	0.497	0.71
26)	TC	2,4-Dichlorophenol	0.329	0.327	0.326	0.316	0.312	0.322	2.28
27)	T	Benzoic Acid	0.317	0.284	0.222	0.146	0.092	0.212	44.17
28)	TM	1,2,4-Trichlorobenzen	0.359	0.355	0.356	0.355	0.355	0.356	0.57
29)	T	Naphthalene	1.058	1.079	1.089	1.084	1.088	1.080	1.16
30)	T	4-Chloroaniline	0.444	0.442	0.457	0.450	0.455	0.449	1.44
31)	TC	Hexachlorobutadiene	0.218	0.219	0.218	0.215	0.215	0.217	0.83
32)	TCM	4-Chloro-3-methylphen	0.419	0.421	0.429	0.419	0.399	0.417	2.62
33)	T	2-Methylnaphthalene	0.698	0.702	0.707	0.702	0.692	0.700	0.76
34)	I	Acenaphthene-d10	----------ISTD----------						
35)	TP	Hexachlorocyclopentad	0.397	0.377	0.367	0.318	0.281	0.348	13.56
36)	TC	2,4,6-Trichlorophenol	0.404	0.396	0.399	0.389	0.376	0.393	2.73
37)	T	2,4,5-Trichlorophenol	0.434	0.427	0.427	0.405	0.402	0.419	3.42
38)	S	2-Fluorobiphenyl	1.307	1.308	1.308	1.292	1.300	1.303	0.54
39)	T	2-Chloronaphthalene	1.133	1.135	1.145	1.129	1.148	1.138	0.71
40)	T	2-Nitroaniline	0.378	0.378	0.380	0.369	0.362	0.373	1.98
41)	T	Dimethylphthalate	1.340	1.356	1.372	1.367	1.353	1.358	0.92
42)	T	Acenaphthylene	1.802	1.827	1.829	1.816	1.821	1.819	0.59
43)	T	2,6-Dinitrotoluene	0.315	0.314	0.314	0.306	0.291	0.308	3.32
44)	T	3-Nitroaniline	0.309	0.308	0.316	0.311	0.307	0.310	1.20
45)	TCM	Acenaphthene	1.114	1.124	1.105	1.101	1.109	1.110	0.79
46)	TP	2,4-Dinitrophenol	0.203	0.195	0.181	0.140	0.089	0.162	29.31
47)	T	Dibenzofuran	1.614	1.634	1.634	1.618	1.623	1.625	0.57
48)	TMP	4-Nitrophenol	0.416	0.408	0.410	0.385	0.356	0.395	6.27
49)	TM	2,4-Dinitrotoluene	0.457	0.457	0.461	0.436	0.419	0.446	3.99
50)	T	Diethylphthalate	1.397	1.428	1.446	1.431	1.408	1.422	1.35
51)	T	Fluorene	1.361	1.376	1.377	1.343	1.344	1.360	1.21
52)	T	4-Chlorophenyl-phenyl	0.659	0.653	0.643	0.651	0.648	0.651	0.87
53)	T	4-Nitroaniline	0.314	0.309	0.320	0.310	0.306	0.312	1.68
54)	I	Phenanthrene-d10	----------ISTD----------						

(#) = Out of Range

Method : C:\HPCHEM\1\METHODS\M262593.M (RTE Integrator)
Title : BNA Calibration
Last Update : Thu Nov 03 13:40:19 2005
Response via : Initial Calibration

Calibration Files
120 =BNA11333.D 80 =BNA11337.D 50 =BNA11335.D
20 =BNA11336.D 10 =BNA11334.D

		Compound	120	80	50	20	10	Avg	%RSD
55)	T	4,6-Dinitro-2-methylp	0.172	0.162	0.154	0.132	0.105	0.145	18.54
56)	TC	n-Nitrosodiphenylamin	0.566	0.559	0.562	0.554	0.556	0.559	0.88
57)	T	Azobenzene	0.999	0.995	1.018	1.041	1.023	1.015	1.88
58)	S	2,4,6-Tribromophenol	0.102	0.099	0.098	0.096	0.090	0.097	4.74
59)	T	4-Bromophenyl-phenyle	0.228	0.224	0.218	0.216	0.208	0.219	3.39
60)	T	Hexachlorobenzene	0.242	0.239	0.230	0.230	0.224	0.233	3.17
61)	TCM	Pentachlorophenol	0.139	0.128	0.115	0.095	0.069	0.109	25.56
62)	T	Phenanthrene	1.189	1.179	1.183	1.198	1.201	1.190	0.79
63)	T	Anthracene	1.150	1.135	1.153	1.167	1.151	1.151	1.00
64)	T	Di-n-butylphthalate	1.277	1.285	1.325	1.363	1.361	1.322	3.07
65)	TC	Fluoranthene	1.236	1.234	1.237	1.240	1.228	1.235	0.36
66)	I	Chrysene-d12	----------ISTD----------						
67)	T	Benzidine	0.471	0.473	0.501	0.583	0.691	0.544	17.27
68)	TM	Pyrene	1.214	1.225	1.246	1.253	1.259	1.239	1.54
69)	S	p-Terphenyl-d14	0.860	0.844	0.838	0.830	0.836	0.841	1.34
70)	T	Butylbenzylphthalate	0.596	0.597	0.608	0.611	0.608	0.604	1.17
71)	T	Benzo[a]anthracene	1.291	1.252	1.226	1.195	1.201	1.233	3.19
72)	T	3,3'-Dichlorobenzidin	0.484	0.436	0.427	0.435	0.470	0.450	5.57
73)	T	Chrysene	1.065	1.072	1.051	1.056	1.057	1.060	0.79
74)	T	bis(2-Ethylhexyl)phth	0.757	0.756	0.770	0.769	0.771	0.765	1.00
75)	I	Perylene-d12	----------ISTD----------						
76)	TC	Di-n-octylphthalate	2.119	2.089	2.119	2.064	2.028	2.084	1.87
77)	T	Benzo[b]fluoranthene	1.794	1.751	1.681	1.624	1.623	1.695	4.51
78)	T	Benzo[k]fluoranthene	1.790	1.725	1.710	1.648	1.607	1.696	4.17
79)	TC	Benzo[a]pyrene	1.607	1.564	1.524	1.474	1.445	1.523	4.31
80)	T	Indeno[1,2,3-cd]pyren	1.748	1.714	1.663	1.580	1.520	1.645	5.73
81)	T	Dibenz[a,h]anthracene	1.465	1.410	1.348	1.275	1.235	1.347	6.99
82)	T	Benzo[g,h,i]perylene	1.391	1.389	1.355	1.292	1.243	1.334	4.84

(#) = Out of Range

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: FMETL Lab Code 13461

Project: 06-34880 Case No.: 60057 Location: 614 SDG No.:

Lab File ID: BNA11467.D DFTPP Injection Date: 1/30/2006

Instrument ID: GC_BNA_2 DFTPP Injection Time: 8:08

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	49.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 Relative abundance	57.3
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	25.0 - 75.0% of mass 198	54.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 30.0% of mass 198	21.8
365	Greater than 0.75% of mass 198	2.2
441	Present, but less than mass 443	8.5
442	40.0 - 110.0% of mass 198	56.0
443	15.0 - 24.0% of mass 442	12.0 (21.4)2

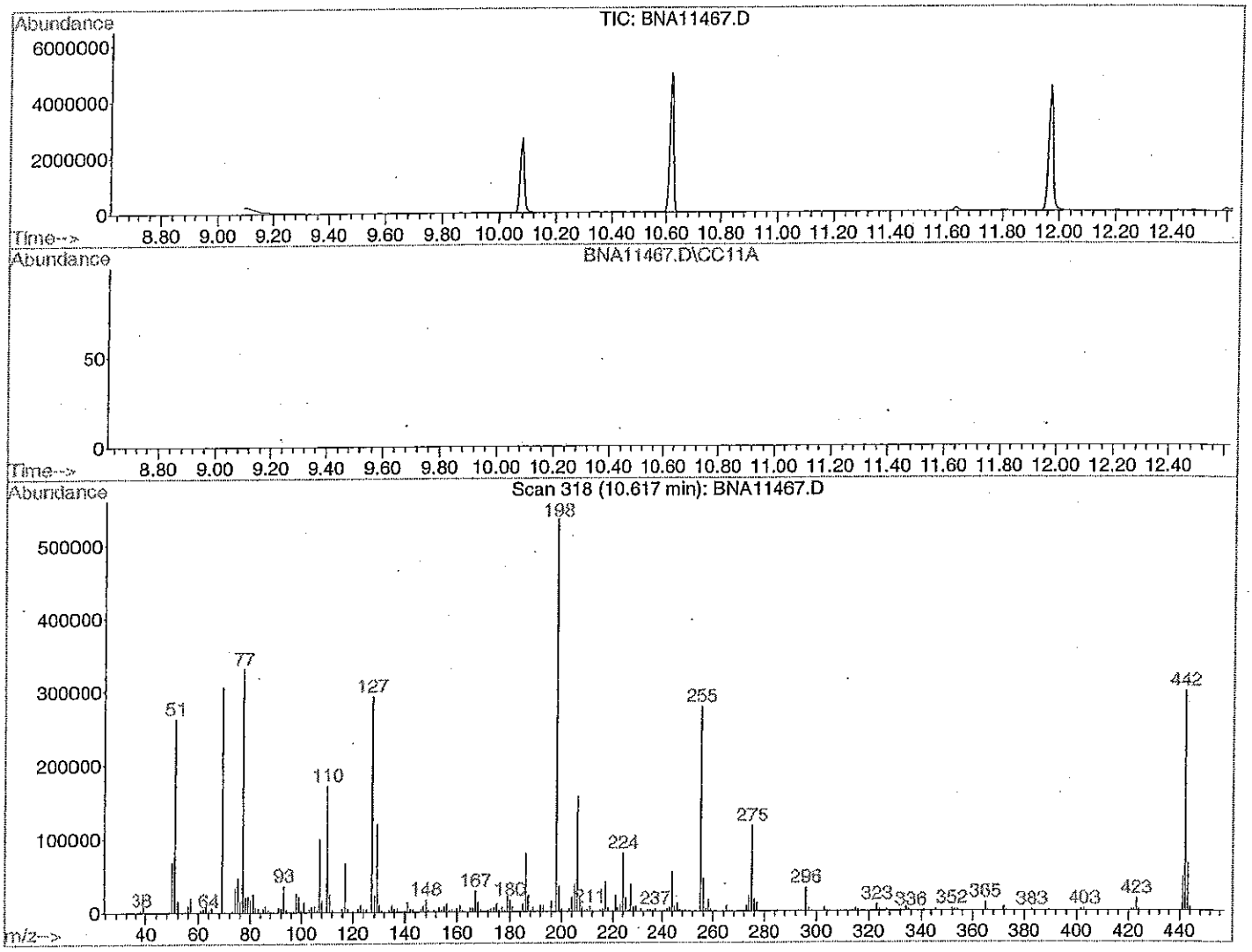
1-Value is % mass 69 2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD050	BNA11468.D	1/30/2006	9:26
02	MB-012706-01	MB-012706-01	BNA11471.D	1/30/2006	11:50
03	614C-GW	6005704	BNA11482.D	1/30/2006	20:20

Data File : C:\HPCHEM\1\DATA\060130\BNA11467.D
Acq On : 30 Jan 2006 8:08 am
Sample : DFTPP Tune
Misc : SV080105.01
MS Integration Params: ODD.P
Method : C:\HPCHEM\1\METHODS\M262593.M (RTE Integrator)
Title : BNA Calibration

Vial: 99
Operator: BPatel
Inst : GC/MS Ins
Multiplr: 1.00
GC Integration Params: rteint2.p



Spectrum Information: Scan 318

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	49.3	263168	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	57.3	306432	PASS
70	69	0.00	2	0.6	1867	PASS
127	198	40	60	54.8	292928	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	534336	PASS
199	198	5	9	6.4	34176	PASS
275	198	10	30	21.8	116264	PASS
365	198	1	100	2.2	11755	PASS
441	443	1	99	71.1	45512	PASS
442	198	40	100	56.0	299072	PASS
443	442	17	23	21.4	64024	PASS

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\060130\BNA11468.D Vial: 100
Acq On : 30 Jan 2006 9:26 am Operator: BPatel
Sample : Sstd050 Inst : GC/MS Ins
Misc : SV013006.01 Multiplr: 1.00
MS Integration Params: ODD.P GC Integration Params: rteint2.p

Method : C:\HPCHEM\1\METHODS\M262593.M (RTE Integrator)
Title : BNA Calibration
Last Update : Thu Nov 03 13:40:19 2005
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	144	-0.04
2	T	Pyridine	1.536	1.525	0.7	144	0.00
3	T	N-nitroso-dimethylamine	0.824	0.808	1.9	140	0.00
4	S	2-Fluorophenol	1.255	1.268	-1.0	142	0.00
5	T	Aniline	2.308	2.128	7.8	132	-0.02
6	S	Phenol-d6	1.736	1.644	5.3	135	-0.01
7	TCM	Phenol	1.949	1.882	3.4	139	-0.01
8	T	bis(2-Chloroethyl)ether	1.383	1.363	1.4	140	-0.02
9	TM	2-Chlorophenol	1.302	1.291	0.8	142	-0.02
10	T	1,3-Dichlorobenzene	1.501	1.500	0.1	143	-0.03
11	TCM	1,4-Dichlorobenzene	1.555	1.537	1.2	141	-0.03
12	T	Benzyl alcohol	0.987	0.953	3.4	135	-0.02
13	T	1,2-Dichlorobenzene	1.418	1.405	0.9	141	-0.04
14	T	2-Methylphenol	1.342	1.281	4.5	135	-0.01
15	T	bis(2-chloroisopropyl)ether	1.697	1.640	3.4	136	-0.03
16	T	4-Methylphenol	1.402	1.340	4.4	136	-0.02
17	TPM	n-Nitroso-di-n-propylamine	0.244	0.235	3.7	138	-0.03
18	T	Hexachloroethane	0.639	0.629	1.6	138	-0.04
19	I	Naphthalene-d8	1.000	1.000	0.0	139	-0.03
20	S	Nitrobenzene-d5	0.583	0.555	4.8	130	-0.03
21	T	Nitrobenzene	0.559	0.540	3.4	133	-0.03
22	T	Isophorone	0.942	0.911	3.3	133	-0.03
23	TC	2-Nitrophenol	0.194	0.201	-3.6	141	-0.03
24	T	2,4-Dimethylphenol	0.473	0.460	2.7	134	-0.02
25	T	bis(2-Chloroethoxy)methane	0.497	0.485	2.4	136	-0.03
26	TC	2,4-Dichlorophenol	0.322	0.329	-2.2	140	-0.02
27	T	Benzoic Acid	0.212	0.258	-21.7	161	0.00
28	TM	1,2,4-Trichlorobenzene	0.356	0.373	-4.8	145	-0.03
29	T	Naphthalene	1.080	1.064	1.5	135	-0.04
30	T	4-Chloroaniline	0.449	0.406	9.6	123	-0.03
31	TC	Hexachlorobutadiene	0.217	0.232	-6.9	148	-0.03
32	TCM	4-Chloro-3-methylphenol	0.417	0.406	2.6	131	-0.01
33	T	2-Methylnaphthalene	0.700	0.696	0.6	136	-0.03
34	I	Acenaphthene-d10	1.000	1.000	0.0	138	-0.03
35	TP	Hexachlorocyclopentadiene	0.348	0.357	-2.6	134	-0.04
36	TC	2,4,6-Trichlorophenol	0.393	0.404	-2.8	140	-0.03
37	T	2,4,5-Trichlorophenol	0.419	0.421	-0.5	136	-0.01
38	S	2-Fluorobiphenyl	1.303	1.303	0.0	137	-0.03
39	T	2-Chloronaphthalene	1.138	1.146	-0.7	138	-0.03
40	T	2-Nitroaniline	0.373	0.373	0.0	135	-0.03
41	T	Dimethylphthalate	1.358	1.346	0.9	135	-0.03
42	T	Acenaphthylene	1.819	1.765	3.0	133	-0.03
43	T	2,6-Dinitrotoluene	0.308	0.315	-2.3	138	-0.03
44	T	3-Nitroaniline	0.310	0.270	12.9	118	-0.02
45	TCM	Acenaphthene	1.110	1.086	2.2	136	-0.03
46	TP	2,4-Dinitrophenol	0.162	0.177	-9.3	135	-0.03
47	T	Dibenzofuran	1.625	1.589	2.2	134	-0.03
48	TMP	4-Nitrophenol	0.395	0.392	0.8	132	0.00
49	TM	2,4-Dinitrotoluene	0.446	0.442	0.9	132	-0.03
50	T	Diethylphthalate	1.422	1.379	3.0	132	-0.03
51	T	Fluorene	1.360	1.324	2.6	133	-0.03
52	T	4-Chlorophenyl-phenylether	0.651	0.661	-1.5	142	-0.03

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\060130\BNA11468.D Vial: 100
Acq On : 30 Jan 2006 9:26 am Operator: BPatel
Sample : Sstd050 Inst : GC/MS Ins
Misc : SV013006.01 Multiplr: 1.00
MS Integration Params: ODD.P GC Integration Params: rteint2.p

Method : C:\HPCHEM\1\METHODS\M262593.M (RTE Integrator)
Title : BNA Calibration
Last Update : Thu Nov 03 13:40:19 2005
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
53	T	4-Nitroaniline	0.312	0.243	22.1	105	-0.03
54	I	Phenanthrene-d10	1.000	1.000	0.0	132	-0.03
55	T	4,6-Dinitro-2-methylphenol	0.145	0.159	-9.7	136	-0.03
56	TC	n-Nitrosodiphenylamine	0.559	0.556	0.5	131	-0.03
57	T	Azobenzene	1.015	0.975	3.9	127	-0.03
58	S	2,4,6-Tribromophenol	0.097	0.105	-8.2	141	-0.03
59	T	4-Bromophenyl-phenylether	0.219	0.226	-3.2	137	-0.04
60	T	Hexachlorobenzene	0.233	0.242	-3.9	139	-0.03
61	TCM	Pentachlorophenol	0.109	0.129	-18.3	147	-0.02
62	T	Phenanthrene	1.190	1.167	1.9	130	-0.03
63	T	Anthracene	1.151	1.130	1.8	129	-0.03
64	T	Di-n-butylphthalate	1.322	1.253	5.2	125	-0.03
65	TC	Fluoranthene	1.235	1.164	5.7	124	-0.03
66	I	Chrysene-d12	1.000	1.000	0.0	124	-0.04
67	T	Benzidine	0.544	0.515	5.3	128	-0.03
68	TM	Pyrene	1.239	1.240	-0.1	124	-0.03
69	S	p-Terphenyl-d14	0.841	0.863	-2.6	128	-0.03
70	T	Butylbenzylphthalate	0.604	0.592	2.0	121	-0.03
71	T	Benzo[a]anthracene	1.233	1.222	0.9	124	-0.04
72	T	3,3'-Dichlorobenzidine	0.450	0.532	-18.2	155	-0.03
73	T	Chrysene	1.060	1.047	1.2	124	-0.03
74	T	bis(2-Ethylhexyl)phthalate	0.765	0.724	5.4	117	-0.03
75	I	Perylene-d12	1.000	1.000	0.0	121	-0.04
76	TC	Di-n-octylphthalate	2.084	1.924	7.7	110	-0.03
77	T	Benzo[b]fluoranthene	1.695	1.700	-0.3	122	-0.03
78	T	Benzo[k]fluoranthene	1.696	1.662	2.0	117	-0.03
79	TC	Benzo[a]pyrene	1.523	1.488	2.3	118	-0.03
80	T	Indeno[1,2,3-cd]pyrene	1.645	1.575	4.3	115	-0.06
81	T	Dibenz[a,h]anthracene	1.347	1.275	5.3	114	-0.06
82	T	Benzo[g,h,i]perylene	1.334	1.255	5.9	112	-0.06

4B

EPA SAMPLE NO.

SEMIVOLATILE METHOD BLANK SUMMARY

MB-012706-01

Lab Name: FMETL Lab Code 13461

Project: 06-34880 Case No.: 60057 Location: 614 SDG No.:

Lab File ID: BNA11471.D Lab Sample ID: MB-012706-01

Instrument ID: GC/MS Ins Date Extracted: 1/27/2006

Matrix: (soil/water) WATER Date Analyzed: 1/30/2006

Level: (low/med) LOW Time Analyzed: 11:50

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	614C-GW	6005704	BNA11482.D	1/30/2006

COMMENTS:

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: FMETL Lab Code 13461

Project: 06-34880 Case No.: 60057 Location: 614 SDG No.: _____

	EPA SAMPLE NO.	S1 NBZ #	S2 2FP #	S3 TPL #	TOT OUT
01	MB-012706-01	63	69	87	0
02	614C-GW	67	70	62	0

				QC LIMITS
S1	NBZ	=	Nitrobenzene-d5	(40-110)
S2	2FP	=	2-Fluorobiphenyl	(50-110)
S3	TPL	=	p-Terphenyl-d14	(50-135)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

Semi-Volatile MS/MSD Recovery Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

MS Lab ID:	6004508MS	MS Sample ID:	886 RW#3MS
MSD Lab ID:	6004508MSD	MSD Sample ID:	886 RW#3MSD
Matrix:	Aqueous	Sample File ID:	BNA11473.D
Date Extracted:	01/25/06	MS File ID:	BNA11474.D
Date Analyzed:	01/30/06	MSD File ID:	BNA11475.D

Compound Name	MS % Rec.	MSD % Rec.	% RPD	RPD Limits	Lower Control Limits	Upper Control Limits	Qualifier
Pyridine	27.6	29.3	5.8	30.0	5	58	
N-nitroso-dimethylamine	39.9	45.7	13.6	30.0	25	110	
Aniline	47.9	40.6	16.5	30.0	4	90	
Phenol	32.1	30.8	4.3	30.0	10	115	
bis(2-Chloroethyl)ether	74.1	77.5	4.4	30.0	35	110	
2-Chlorophenol	72.7	74.9	3.0	30.0	35	105	
1,3-Dichlorobenzene	65.3	75.8	15.0	30.0	30	100	
1,4-Dichlorobenzene	65.8	75.7	14.0	30.0	30	100	
Benzyl alcohol	60.8	62.4	2.6	30.0	30	110	
1,2-Dichlorobenzene	68.6	76.7	11.2	30.0	35	100	
2-Methylphenol	64.4	64.8	0.5	30.0	40	110	
bis(2-chloroisopropyl)ether	77.6	83.5	7.3	30.0	25	130	
4-Methylphenol	58.8	56.5	4.1	30.0	30	110	
n-Nitroso-di-n-propylamine	77.1	79.1	2.6	30.0	35	130	
Hexachloroethane	62.8	72.5	14.4	30.0	30	95	
Nitrobenzene	73.4	75.6	3.0	30.0	45	110	
Isophorone	76.5	77.0	0.7	30.0	50	110	
2-Nitrophenol	73.7	76.0	3.1	30.0	40	115	
2,4-Dimethylphenol	72.2	73.0	1.1	30.0	30	110	
bis(2-Chloroethoxy)methane	74.7	74.7	0.0	30.0	45	105	
2,4-Dichlorophenol	75.0	76.3	1.7	30.0	50	105	
Benzoic Acid	24.2	22.3	8.2	30.0	0	125	
1,2,4-Trichlorobenzene	74.6	79.2	6.0	30.0	35	105	
Naphthalene	74.7	78.1	4.5	30.0	40	100	
4-Chloroaniline	57.9	48.6	17.5	30.0	15	110	
Hexachlorobutadiene	75.1	79.4	5.5	30.0	25	105	
4-Chloro-3-methylphenol	73.3	73.7	0.6	30.0	45	110	
2-Methylnaphthalene	75.8	77.2	1.8	30.0	45	105	
Hexachlorocyclopentadiene	45.2	45.8	1.4	30.0	5	67	
2,4,6-Trichlorophenol	80.5	82.6	2.6	30.0	50	115	
2,4,5-Trichlorophenol	81.4	80.5	1.1	30.0	50	110	
2-Chloronaphthalene	83.3	83.5	0.2	30.0	50	105	
2-Nitroaniline	80.3	79.6	0.9	30.0	50	115	
Dimethylphthalate	85.3	84.5	0.9	30.0	25	125	
Acenaphthylene	76.6	77.7	1.5	30.0	50	105	
2,6-Dinitrotoluene	81.2	80.3	1.1	30.0	50	115	
3-Nitroaniline	65.9	58.7	11.6	30.0	20	125	
Acenaphthene	78.0	79.6	2.0	30.0	45	110	

Semi-Volatile MS/MSD Recovery Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

MS Lab ID:	6004508MS	MS Sample ID:	6004508MS
MSD Lab ID:	6004508MSD	MSD Sample ID:	6004508MSD
Matrix:	Aqueous	Sample File ID:	BNA11473.D
Date Extracted:	01/25/06	MS File ID:	BNA11474.D
Date Analyzed:	01/30/06	MSD File ID:	BNA11475.D

Compound Name	MS % Rec.	MSD % Rec.	% RPD	RPD Limits	Lower Control Limits	Upper Control Limits	Qualifier		
2,4-Dinitrophenol	62.9	61.4	2.4	30.0	15	140			
Dibenzofuran	77.7	79.2	1.9	30.0	55	105			
4-Nitrophenol	37.6	3.5	165.9	30.0	0	125			^
2,4-Dinitrotoluene	79.5	81.7	2.8	30.0	50	120			
Diethylphthalate	82.1	83.3	1.4	30.0	40	120			
Fluorene	79.1	80.4	1.7	30.0	50	110			
4-Chlorophenyl-phenylether	80.4	84.0	4.4	30.0	50	110			
4-Nitroaniline	68.2	69.4	1.7	30.0	35	120			
4,6-Dinitro-2-methylphenol	71.8	71.2	0.8	30.0	40	130			
n-Nitrosodiphenylamine	73.9	73.9	0.1	30.0	50	110			
Azobenzene	74.1	74.6	0.7	30.0	58	102			
4-Bromophenyl-phenylether	75.7	78.2	3.2	30.0	50	115			
Hexachlorobenzene	72.9	73.7	1.1	30.0	50	110			
Pentachlorophenol	81.8	80.7	1.4	30.0	40	115			
Phenanthrene	73.4	74.6	1.6	30.0	50	115			
Anthracene	74.7	76.1	1.8	30.0	55	110			
Di-n-butylphthalate	79.1	79.9	1.1	30.0	55	115			
Fluoranthene	73.7	73.3	0.6	30.0	55	115			
Benzidine	1.0	0.5	60.0	30.0	5	100	**	**	^
Pyrene	86.6	88.9	2.7	30.0	50	130			
Butylbenzylphthalate	87.2	88.1	1.1	30.0	45	115			
Benzo[a]anthracene	80.7	81.3	0.7	30.0	55	110			
3,3'-Dichlorobenzidine	55.1	51.8	6.2	30.0	20	110			
Chrysene	82.6	83.7	1.3	30.0	55	110			
bis(2-Ethylhexyl)phthalate	87.3	88.3	1.1	30.0	40	125			
Di-n-octylphthalate	65.8	67.0	1.9	30.0	35	135			
Benzo[b]fluoranthene	60.4	61.4	1.6	30.0	45	120			
Benzo[k]fluoranthene	61.0	60.8	0.4	30.0	45	125			
Benzo[a]pyrene	60.1	61.0	1.6	30.0	55	110			
Indeno[1,2,3-cd]pyrene	57.9	58.4	0.9	30.0	45	125			
Dibenz[a,h]anthracene	58.3	58.2	0.1	30.0	40	125			
Benzo[g,h,i]perylene	60.0	59.4	1.0	30.0	40	125			

Qualifiers :

** **% Recovery is Outside QC Limits**
^ **% RPD is Outside QC Limits**

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: FMETL Lab Code 13461

Project: 06-34880 Case No.: 60057 Location: 614 SDG No.:

Lab File ID (Standard): BNA11468.D Date Analyzed: 1/30/2006

Instrument ID: GC_BNA_2 Time Analyzed: 9:26

		IS1DCB AREA #	RT #	IS2NAP AREA #	RT #	IS3ANE AREA #	RT #
	12 HOUR STD	785226	10.36	2657684	13.29	1674549	17.50
	UPPER LIMIT	1570452	10.86	5315368	13.79	3349098	18.00
	LOWER LIMIT	392613	9.86	1328842	12.79	837275	17.00
	EPA SAMPLE NO.						
01	MB-012706-01	706266	10.36	2593985	13.29	1563725	17.50
02	614C-GW	768983	10.36	2621304	13.29	1486500	17.50

IS1 DCB = 1,4-Dichlorobenzene-d4
IS2 NAP = Naphthalene-d8
IS3 ANE = Acenaphthene-d10
IS4 PNE = Phenanthrene-d10
IS5 CYS = Chrysene-d12
IS6 PRL = Perylene-d12

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: FMETL Lab Code 13461

Project: 06-34880 Case No.: 60057 Location: 614 SDG No.:

Lab File ID (Standard): BNA11468.D Date Analyzed: 01/30/06

Instrument ID: GC_BNA_2 Time Analyzed: 09:26

		IS4PNE AREA #	RT #	IS5CYS AREA #	RT #	IS6PRL AREA #	RT #
	12 HOUR STD	2728970	21.09	2562483	27.51	1497487	30.70
	UPPER LIMIT	5457940	20.59	5124966	27.01	2994974	30.20
	LOWER LIMIT	1364485	21.59	1281242	28.01	748744	31.20
	EPA SAMPLE NO.						
01	MB-012706-01	2848236	21.08	2533615	27.49	2077860	30.70
02	614C-GW	2690073	21.09	2622971	27.50	2277887	30.70

IS1 DCB = 1,4-Dichlorobenzene-d4
IS2 NAP = Naphthalene-d8
IS3 ANE = Acenaphthene-d10
IS4 PNE = Phenanthrene-d10
IS5 CYS = Chrysene-d12
IS6 PRL = Perylene-d12

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060130\BNA11471.D Vial: 3
Acq On : 30 Jan 2006 11:50 am Operator: BPatel
Sample : MB-012706-01 Inst : GC/MS Ins
Misc : MB-012706-01 Multiplr: 1.00
MS Integration Params: ODD.P GC Integration Params: rteint2.p
Quant Time: Jan 30 12:26 2006 Quant Results File: M262593.RES

Quant Method : C:\HPCHEM\1\METHODS\M262593.M (RTE Integrator)
Title : BNA Calibration
Last Update : Thu Nov 03 13:40:19 2005
Response via : Initial Calibration
DataAcq Meth : M262593

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.36	152	706266	40.00	ug/L	-0.04
19) Naphthalene-d8	13.29	136	2593985	40.00	ug/L	-0.04
34) Acenaphthene-d10	17.50	164	1563725	40.00	ug/L	-0.04
54) Phenanthrene-d10	21.08	188	2848236	40.00	ug/L	-0.05
66) Chrysene-d12	27.49	240	2533615	40.00	ug/L	-0.05
75) Perylene-d12	30.70	264	2077860	40.00	ug/L	-0.05
System Monitoring Compounds						
4) 2-Fluorophenol	0.00	112	0	0.00	ug/L	
Spiked Amount 100:000	Range 20 - 110		Recovery =	0.00%#		
6) Phenol-d6	0.00	99	0	0.00	ug/L	
Spiked Amount 100.000	Range 10 - 115		Recovery =	0.00%#		
20) Nitrobenzene-d5	11.62	82	1195598	31.61	ug/L	-0.04
Spiked Amount 50.000	Range 40 - 110		Recovery =	63.22%		
38) 2-Fluorobiphenyl	15.91	172	1751455	34.39	ug/L	-0.04
Spiked Amount 50.000	Range 50 - 110		Recovery =	68.78%		
58) 2,4,6-Tribromophenol	0.00	330	0	0.00	ug/L	
Spiked Amount 100.000	Range 40 - 125		Recovery =	0.00%#		
69) p-Terphenyl-d14	25.01	244	2326420	43.65	ug/L	-0.04
Spiked Amount 50.000	Range 50 - 135		Recovery =	87.30%		

Target Compounds Qvalue

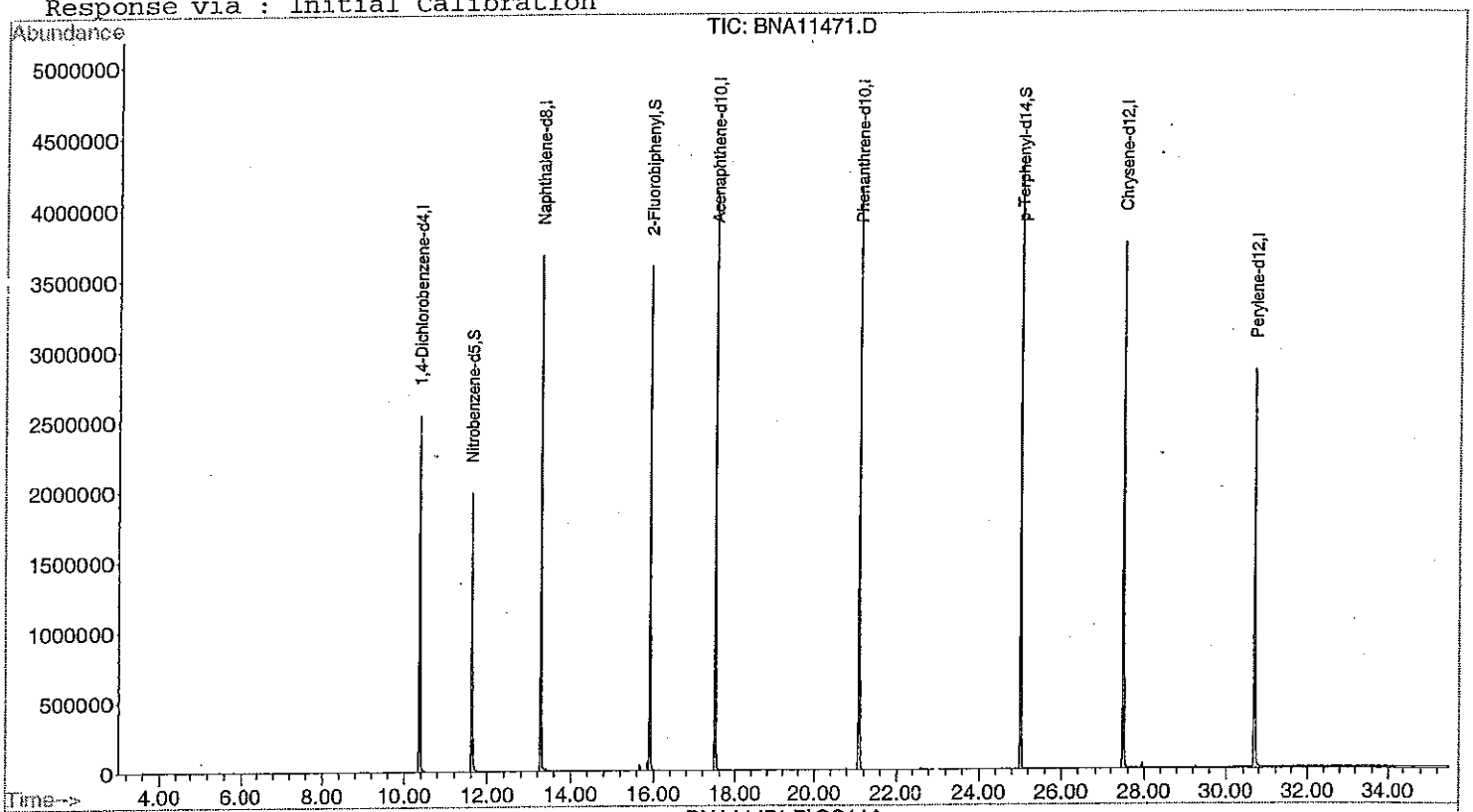
(#) = qualifier out of range (m) = manual integration

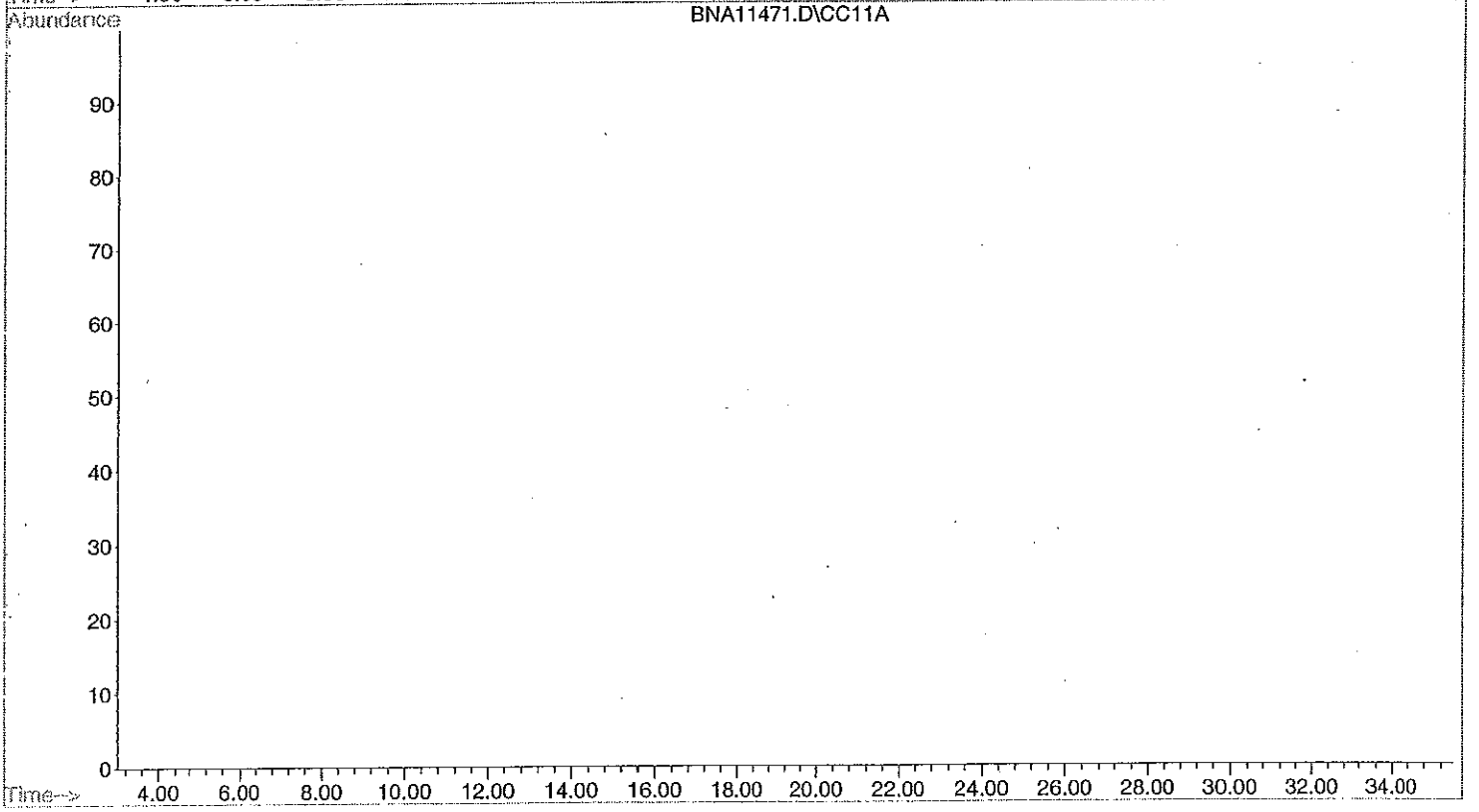
000084

Quantitation Report

Data File : C:\HPCHEM\1\DATA\060130\BNA11471.D Vial: 3
Acq On : 30 Jan 2006 11:50 am Operator: BPatel
Sample : MB-012706-01 Inst : GC/MS Ins
Misc : MB-012706-01 Multiplr: 1.00
MS Integration Params: ODD.P GC Integration Params: rteint2.p
Quant Time: Jan 30 12:26 2006 Quant Results File: M262593.RES

Method : C:\HPCHEM\1\METHODS\M262593.M (RTE Integrator)
Title : BNA Calibration
Last Update : Thu Nov 03 13:40:19 2005
Response via : Initial Calibration





000085

Quantitation Report (QT/LSC Reviewed)

Data File : C:\HPCHEM\1\DATA\060130\BNA11482.D Vial: 14
Acq On : 30 Jan 2006 8:20 pm Operator: BPatel
Sample : 6005704 Inst : GC/MS Ins
Misc : 614C-GW Multiplr: 1.00
MS Integration Params: ODD.P GC Integration Params: rteint2.p
Quant Time: Feb 1 13:00 2006 Quant Results File: M262593.RES

Quant Method : C:\HPCHEM\1\METHODS\M262593.M (RTE Integrator)
Title : BNA Calibration
Last Update : Thu Nov 03 13:40:19 2005
Response via : Initial Calibration
DataAcq Meth : M262593

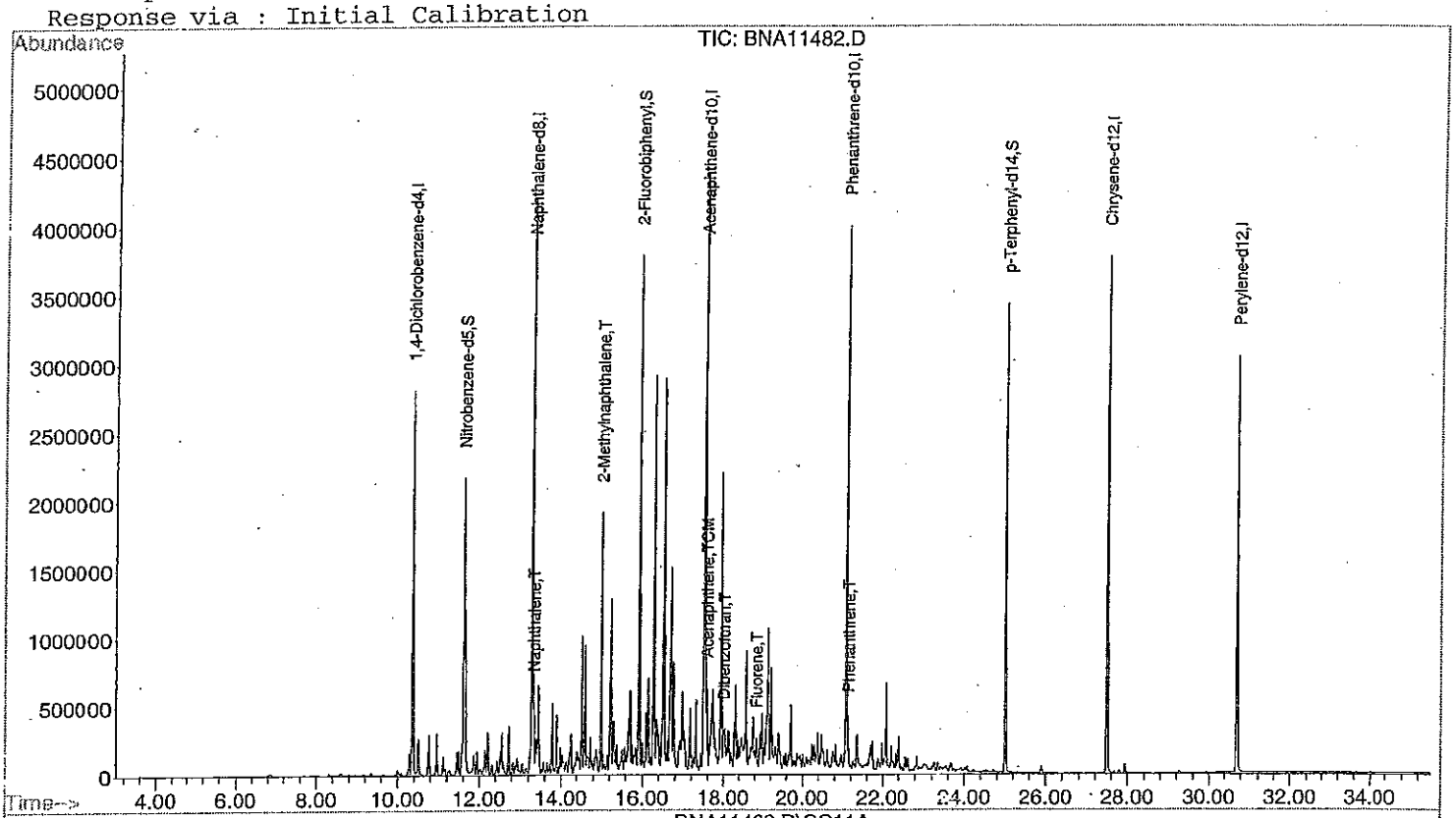
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.36	152	768983	40.00	ug/L	-0.04
19) Naphthalene-d8	13.29	136	2621304	40.00	ug/L	-0.04
34) Acenaphthene-d10	17.50	164	1486500	40.00	ug/L	-0.04
54) Phenanthrene-d10	21.09	188	2690073	40.00	ug/L	-0.04
66) Chrysene-d12	27.50	240	2622971	40.00	ug/L	-0.05
75) Perylene-d12	30.70	264	2277887	40.00	ug/L	-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	0.00	112	0	0.00	ug/L	
Spiked Amount 100.000	Range 20 - 110		Recovery =	0.00%#		
6) Phenol-d6	0.00	99	0	0.00	ug/L	
Spiked Amount 100.000	Range 10 - 115		Recovery =	0.00%#		
20) Nitrobenzene-d5	11.62	82	1278560	33.46	ug/L	-0.04
Spiked Amount 50.000	Range 40 - 110		Recovery =	66.92%		
38) 2-Fluorobiphenyl	15.91	172	1686144	34.83	ug/L	-0.04
Spiked Amount 50.000	Range 50 - 110		Recovery =	69.66%		
58) 2,4,6-Tribromophenol	0.00	330	0	0.00	ug/L	
Spiked Amount 100.000	Range 40 - 125		Recovery =	0.00%#		
69) p-Terphenyl-d14	25.01	244	1719235	31.16	ug/L	-0.04
Spiked Amount 50.000	Range 50 - 135		Recovery =	62.32%		
Target Compounds						Qvalue
29) Naphthalene	13.33	128	298045	4.21	ug/L	98
33) 2-Methylnaphthalene	14.99	142	716201	15.61	ug/L	97
45) Acenaphthene	17.57	153	103283	2.50	ug/L	97
47) Dibenzofuran	18.00	168	47196	0.78	ug/L	96
51) Fluorene	18.82	166	48483	0.96	ug/L	94
62) Phenanthrene	21.13	178	189412	2.37	ug/L	99

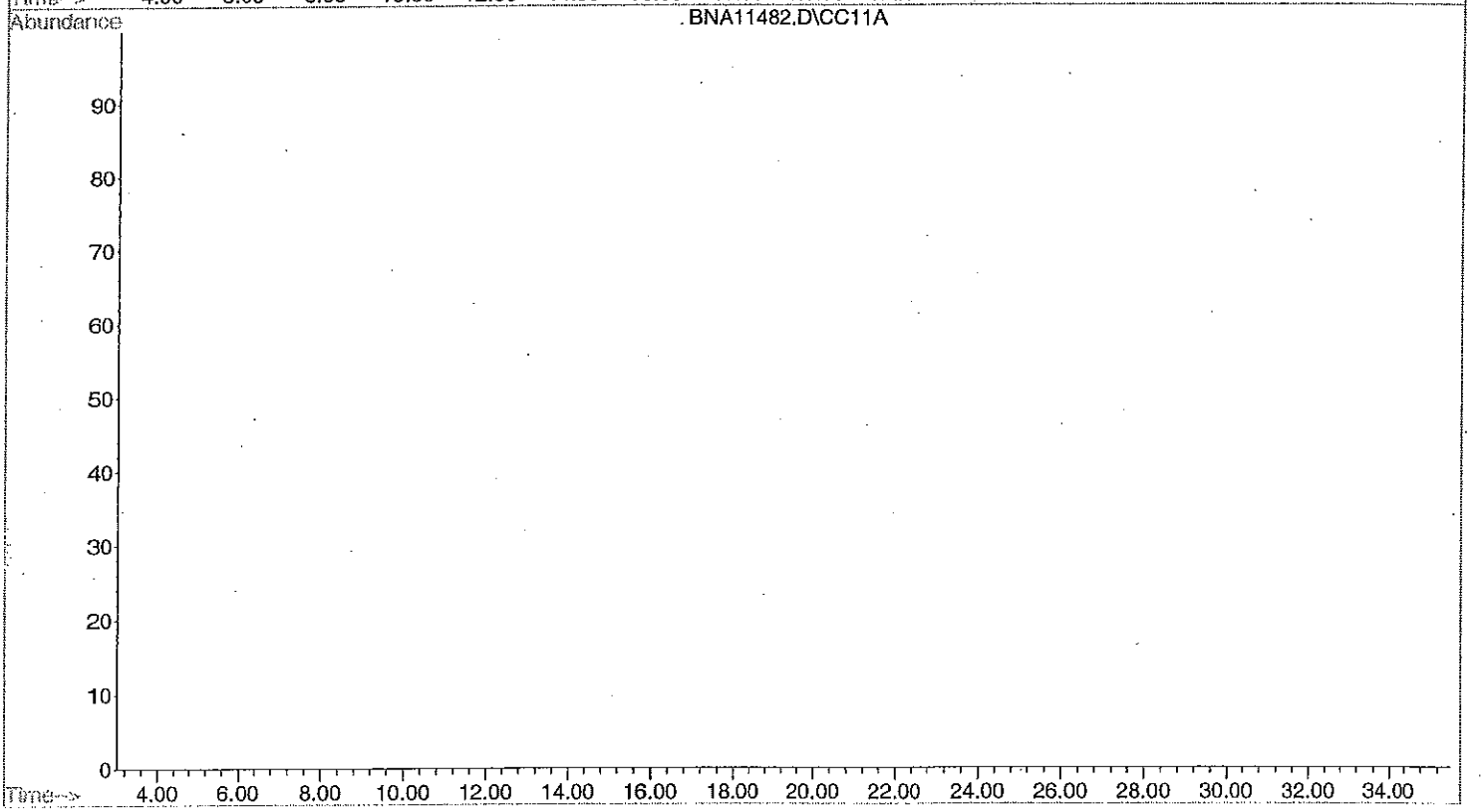
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\060130\BNA11482.D Vial: 14
Acq On : 30 Jan 2006 8:20 pm Operator: BPatel
Sample : 6005704 Inst : GC/MS Ins
Misc : 614C-GW Multiplr: 1.00
MS Integration Params: ODD.P GC Integration Params: rteint2.p
Quant Time: Feb 1 13:00 2006 Quant Results File: M262593.RES

Method : C:\HPCHEM\1\METHODS\M262593.M (RTE Integrator)
Title : BNA Calibration
Last Update : Thu Nov 03 13:40:19 2005
Response via : Initial Calibration





000087

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 # :**	60057
		Location :	614
		UST Reg. # :	06-34880
Analysis :	OQA-QAM-025	**Date Received :**	26-Jan-06
Matrix :	Soil	**Date Extracted :**	01-Feb-06
Inst. ID. :	GC TPHC INST. #1	**Extraction Method :**	Shake
Column Type :	RTX-5, 0.32mm ID, 30M	**Analysis Complete :**	02-Feb-06
Injection Volume :	1uL	**Analyst :**	B.Patel

Lab ID	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	RL	TPHC Result (mg/kg)
6005701	614N	1.00	15.47	80.86	77	400	158.54
6005702	614C	1.00	15.23	80.63	78	407	3257.30
6005703	614S	1.00	15.32	82.95	76	393	ND
METHOD BLANK	MB-020106-01	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

Response Factor Report GC/MS Ins

Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
Title : GC TPH Method
Last Update : Tue Oct 25 07:55:20 2005

Calibration Files
5 =T018084.D 10 =T018086.D 20 =T018087.D
50 =T018085.D 100 =T018083.D

		Compound	5	10	20	50	100	Avg		%RSD
1)	T	C8	2.837	2.664	2.724	2.668	2.626	2.704	E4	3.04
2)	T	C10	2.862	2.806	2.878	2.839	2.794	2.836	E4	1.26
3)	T	C12	2.861	2.790	2.853	2.839	2.805	2.829	E4	1.09
4)	T	C14	2.865	2.809	2.889	2.875	2.845	2.857	E4	1.08
5)	T	C16	2.927	2.880	2.956	2.945	2.915	2.925	E4	1.00
6)	T	C18	2.795	2.759	2.843	2.847	2.828	2.814	E4	1.31
7)	T	C20	2.897	2.846	2.928	2.922	2.892	2.897	E4	1.12
8)	T	C22	2.992	2.936	3.009	3.003	2.970	2.982	E4	1.00
9)	T	C24	3.026	2.980	3.055	3.044	3.006	3.022	E4	1.00
10)	T	C26	3.216	3.070	3.115	3.098	3.050	3.110	E4	2.08
11)	T	C28	3.078	3.037	3.095	3.106	3.066	3.076	E4	0.88
12)	T	C30	3.118	3.072	3.150	3.175	3.135	3.130	E4	1.23
13)	T	C32	3.094	3.044	3.113	3.144	3.116	3.102	E4	1.20
14)	T	C34	3.248	3.097	3.149	3.147	3.107	3.150	E4	1.90
15)	T	C36	3.976	3.287	3.224	3.183	3.150	3.364	E4	10.28
16)	T	C38	3.069	3.060	3.095	3.119	3.056	3.080	E4	0.87
17)	T	C40	2.977	2.957	3.041	3.094	2.970	3.008	E4	1.93
18)	T	C42	2.826	2.803	2.869	2.901	2.755	2.831	E4	2.01
19)	T	Pristane	2.969	2.903	2.962	2.931	2.883	2.930	E4	1.26
20)	T	Phytane	3.126	2.988	3.046	3.008	2.956	3.025	E4	2.16
21)	T	TPHC (Manual Integrat	4.144	3.652	3.499	3.390	3.275	3.592	E4	9.42
22)	H	TPHC (Total)	3.259	3.047	3.076	3.045	2.981	3.082	E4	3.42
23)	S	Chlorobenzene (SURR.)	1.947	2.014	2.104	2.103	2.064	2.046	E4	3.26
24)	S	O-Terphenyl (SURR.)	3.327	3.260	3.347	3.333	3.289	3.311	E4	1.08

(#) = Out of Range

000090

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\060201\T018298.D Vial: 1
Acq On : 1 Feb 2006 11:40 am Operator: Skelton
Sample : Tstd050 Inst : GC/MS Ins
Misc : TP020106.01 Multiplr: 1.00
IntFile : EVENTSBP.E

Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
Title : GC TPH Method
Last Update : Tue Oct 25 07:55:20 2005
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	C8	27.037	24.693 E3	8.7	93	0.00
2	T	C10	28.359	26.134 E3	7.8	92	0.00
3	T	C12	28.295	26.250 E3	7.2	92	0.00
4	T	C14	28.566	26.641 E3	6.7	93	0.00
5	T	C16	29.246	27.224 E3	6.9	92	0.00
6	T	C18	28.143	26.221 E3	6.8	92	0.00
7	T	C20	28.970	26.943 E3	7.0	92	0.00
8	T	C22	29.821	27.651 E3	7.3	92	0.00
9	T	C24	30.220	27.949 E3	7.5	92	0.00
10	T	C26	31.097	28.215 E3	9.3	91	0.00
11	T	C28	30.765	28.256 E3	8.2	91	0.00
12	T	C30	31.300	28.728 E3	8.2	90	0.00
13	T	C32	31.022	28.462 E3	8.3	91	0.00
14	T	C34	31.496	28.313 E3	10.1	90	0.00
15	T	C36	33.639	28.819 E3	14.3	91	0.00
16	T	C38	30.799	27.845 E3	9.6	89	0.00
17	T	C40	30.077	26.882 E3	10.6	87	0.00
18	T	C42	28.308	24.124 E3	14.8	83	-0.02
19	T	Pristane	29.297	27.312 E3	6.8	93	0.00
20	T	Phytane	30.249	27.862 E3	7.9	93	0.00
21	T	TPHC (Manual Integration)	35.921	31.039 E3	13.6	92	0.00
22	H	TPHC (Total)	30.816	27.450 E3	10.9	90	0.00
23	S	Chlorobenzene (SURR.)	20.465	19.253 E3	5.9	92	0.00
24	S	O-Terphenyl (SURR.)	33.111	31.074 E3	6.2	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\060201\T018298.D
Acq On : 1 Feb 2006 11:40 am
Sample : Tstd050
Misc : TP020106.01
IntFile : EVENTSBP.E

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

Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
Title : GC TPH Method
Last Update : Tue Oct 25 07:55:20 2005
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	C8	27.037	24.693 E3	8.7	93	0.00
2	T	C10	28.359	26.134 E3	7.8	92	0.00
3	T	C12	28.295	26.250 E3	7.2	92	0.00
4	T	C14	28.566	26.641 E3	6.7	93	0.00
5	T	C16	29.246	27.224 E3	6.9	92	0.00
6	T	C18	28.143	26.221 E3	6.8	92	0.00
7	T	C20	28.970	26.943 E3	7.0	92	0.00
8	T	C22	29.821	27.651 E3	7.3	92	0.00
9	T	C24	30.220	27.949 E3	7.5	92	0.00
10	T	C26	31.097	28.215 E3	9.3	91	0.00
11	T	C28	30.765	28.256 E3	8.2	91	0.00
12	T	C30	31.300	28.728 E3	8.2	90	0.00
13	T	C32	31.022	28.462 E3	8.3	91	0.00
14	T	C34	31.496	28.313 E3	10.1	90	0.00
15	T	C36	33.639	28.819 E3	14.3	91	0.00
16	T	C38	30.799	27.845 E3	9.6	89	0.00
17	T	C40	30.077	26.882 E3	10.6	87	0.00
18	T	C42	28.308	24.124 E3	14.8	83	-0.02
19	T	Pristane	29.297	27.312 E3	6.8	93	0.00
20	T	Phytane	30.249	27.862 E3	7.9	93	0.00
21	T	TPHC (Manual Integration)	35.921	31.039 E3	13.6	92	0.00
22	H	TPHC (Total)	30.816	27.450 E3	10.9	90	0.00
23	S	Chlorobenzene (SURR.)	20.465	19.253 E3	5.9	92	0.00
24	S	O-Terphenyl (SURR.)	33.111	31.074 E3	6.2	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060201\T018298.D Vial: 1
Acq On : 1 Feb 2006 11:40 am Operator: Skelton
Sample : Tstd050 Inst : GC/MS Ins
Misc : TP020106.01 Multiplr: 1.00
IntFile : EVENTSBP.E
Quant Time: Feb 1 12:41 2006 Quant Results File: TPHC003.RES

Quant Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
Title : GC TPH Method
Last Update : Tue Oct 25 07:55:20 2005
Response via : Initial Calibration
DataAcq Meth : TPHC003.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
23) S Chlorobenzene (SURR.)	5.71	962666	46.446 mg/L
Spiked Amount 10.000		Recovery =	464.46%
24) S O-Terphenyl (SURR.)	13.00	1553677	47.034 mg/L
Spiked Amount 10.000		Recovery =	470.34%
Target Compounds			
1) T C8	4.76	1234666	45.665 mg/L
2) T C10	7.74	1306689	46.077 mg/L
3) T C12	9.36	1312486	46.386 mg/L
4) T C14	10.54	1332047	46.631 mg/L
5) T C16	11.55	1361180	46.542 mg/L
6) T C18	12.01	1311049	46.585 mg/L
7) T C20	12.44	1347146	46.501 mg/L
8) T C22	13.26	1382555	46.361 mg/L
9) T C24	14.00	1397457	46.243 mg/L
10) T C26	14.69	1410738	45.365 mg/L
11) T C28	15.32	1412814	45.923 mg/L
12) T C30	15.95	1436379	45.891 mg/L
13) T C32	16.68	1423085	45.873 mg/L
14) T C34	17.59	1415672	44.948 mg/L
15) T C36	18.80	1440946	42.835 mg/L
16) T C38	20.49	1392235	45.204 mg/L
17) T C40	22.88	1344104	44.689 mg/L
18) T C42	26.30	1206219	42.610 mg/L
19) T Pristane	12.04	1365604	46.612 mg/L
20) T Phytane	12.49	1393089	46.054 mg/L
21) T TPHC (Manual Integration)	13.00	31039250	864.097 mg/L m
22) H TPHC (Total)	12.00	27449715	890.767 mg/L

(f)=RT Delta > 1/2 Window (m)=manual int.

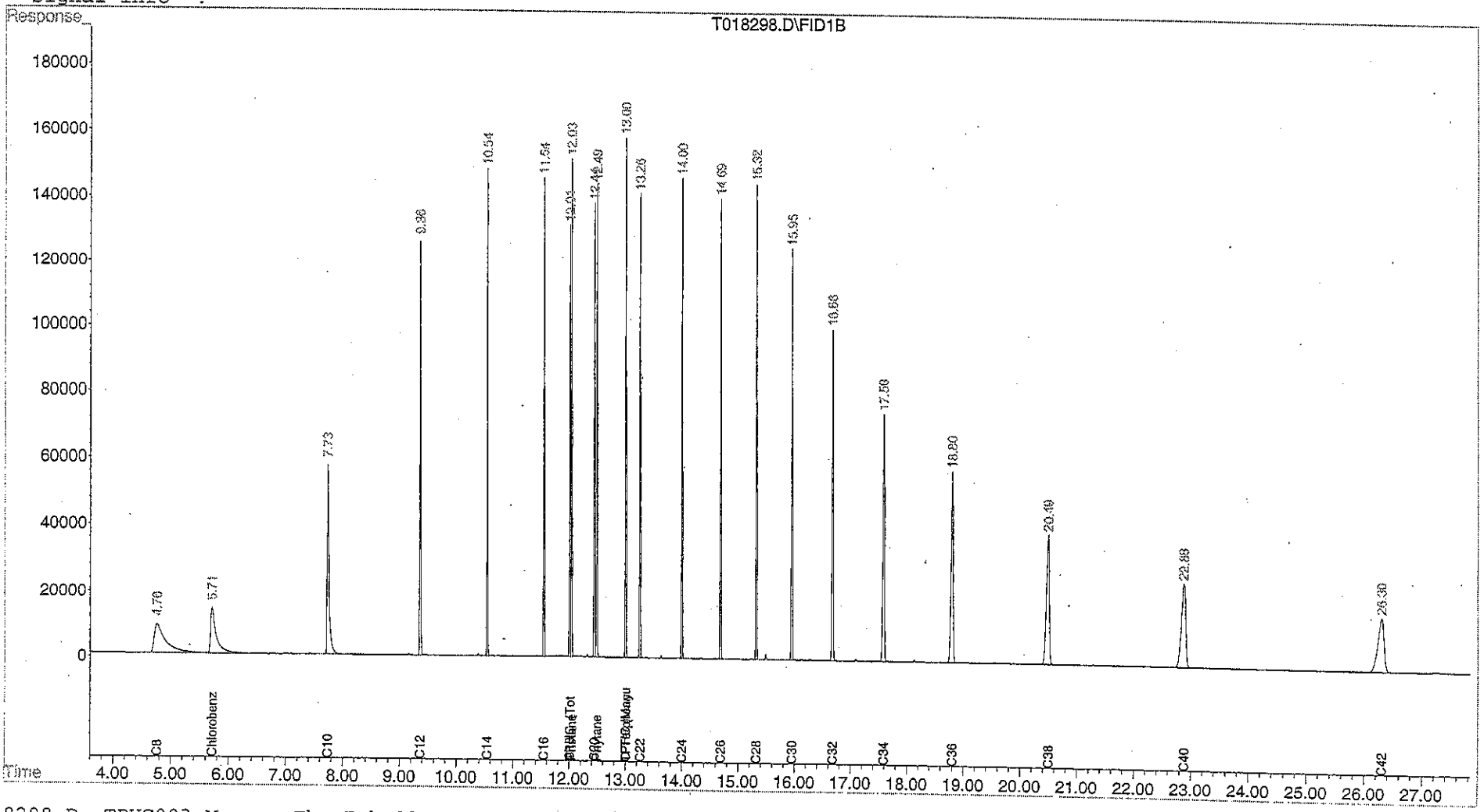
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060201\T018298.D
Acq On : 1 Feb 2006 11:40 am
Sample : Tstd050
Misc : TP020106.01
IntFile : EVENTSBP.E
Quant Time: Feb 1 12:41 2006 Quant Results File: TPHC003.RES

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

Quant Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
Title : GC TPH Method
Last Update : Tue Oct 25 07:55:20 2005
Response via : Multiple Level Calibration
DataAcq Meth : TPHC003.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\060201\T018309.D Vial: 12
Acq On : 1 Feb 2006 6:33 pm Operator: B.Patel
Sample : Tstd050 Inst : GC/MS Ins
Misc : TP020106.01 Multiplr: 1.00
IntFile : EVENTSBP.E

Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
Title : GC TPH Method
Last Update : Tue Oct 25 07:55:20 2005
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	C8	27.037	26.076 E3	3.6	98	0.00
2	T	C10	28.359	27.696 E3	2.3	98	0.00
3	T	C12	28.295	27.877 E3	1.5	98	0.00
4	T	C14	28.566	28.321 E3	0.9	99	0.00
5	T	C16	29.246	28.989 E3	0.9	98	0.00
6	T	C18	28.143	27.919 E3	0.8	98	0.00
7	T	C20	28.970	28.711 E3	0.9	98	0.00
8	T	C22	29.821	29.579 E3	0.8	98	0.00
9	T	C24	30.220	29.937 E3	0.9	98	0.00
10	T	C26	31.097	30.323 E3	2.5	98	0.00
11	T	C28	30.765	30.295 E3	1.5	98	0.00
12	T	C30	31.300	30.786 E3	1.6	97	0.00
13	T	C32	31.022	30.510 E3	1.7	97	0.00
14	T	C34	31.496	30.468 E3	3.3	97	0.00
15	T	C36	33.639	31.002 E3	7.8	97	0.00
16	T	C38	30.799	30.194 E3	2.0	97	0.00
17	T	C40	30.077	29.648 E3	1.4	96	0.00
18	T	C42	28.308	27.536 E3	2.7	95	0.00
19	T	Pristane	29.297	29.047 E3	0.9	99	0.00
20	T	Phytane	30.249	29.695 E3	1.8	99	0.00
21	T	TPHC (Manual Integration)	35.921	33.304 E3	7.3	98	0.00
22	H	TPHC (Total)	30.816	29.514 E3	4.2	97	0.00
23	S	Chlorobenzene (SURR.)	20.465	20.247 E3	1.1	96	0.00
24	S	O-Terphenyl (SURR.)	33.111	32.962 E3	0.5	99	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060201\T018309.D Vial: 12
Acq On : 1 Feb 2006 6:33 pm Operator: B.Patel
Sample : Tstd050 Inst : GC/MS Ins
Misc : TP020106.01 Multiplr: 1.00
IntFile : EVENTSBP.E
Quant Time: Feb 2 7:58 2006 Quant Results File: TPHC003.RES

Quant Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
Title : GC TPH Method
Last Update : Tue Oct 25 07:55:20 2005
Response via : Initial Calibration
DataAcq Meth : TPHC003.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
23)	S Chlorobenzene (SURR.)	5.72	1012332	48.844	mg/L
Spiked Amount	10.000	Recovery =	488.44%		
24)	S O-Terphenyl (SURR.)	13.00	1648105	49.903	mg/L
Spiked Amount	10.000	Recovery =	499.03%		
	Target Compounds				
1)	T C8	4.77	1303782	48.221	mg/L
2)	T C10	7.74	1384777	48.830	mg/L
3)	T C12	9.36	1393831	49.261	mg/L
4)	T C14	10.54	1416046	49.571	mg/L
5)	T C16	11.55	1449466	49.561	mg/L
6)	T C18	12.01	1395972	49.603	mg/L
7)	T C20	12.45	1435575	49.553	mg/L
8)	T C22	13.26	1478932	49.593	mg/L
9)	T C24	14.00	1496843	49.532	mg/L
10)	T C26	14.69	1516148	48.755	mg/L
11)	T C28	15.32	1514763	49.237	mg/L
12)	T C30	15.95	1539306	49.179	mg/L
13)	T C32	16.68	1525500	49.175	mg/L
14)	T C34	17.59	1523405	48.368	mg/L
15)	T C36	18.81	1550082	46.080	mg/L
16)	T C38	20.50	1509682	49.018	mg/L
17)	T C40	22.90	1482395	49.287	mg/L
18)	T C42	26.33	1376811	48.637	mg/L
19)	T Pristane	12.04	1452374	49.574	mg/L
20)	T Phytane	12.49	1484735	49.084	mg/L
21)	T TPHC (Manual Integration)	13.00	33303705	927.137	mg/L m
22)	H TPHC (Total)	12.00	29514062	957.757	mg/L

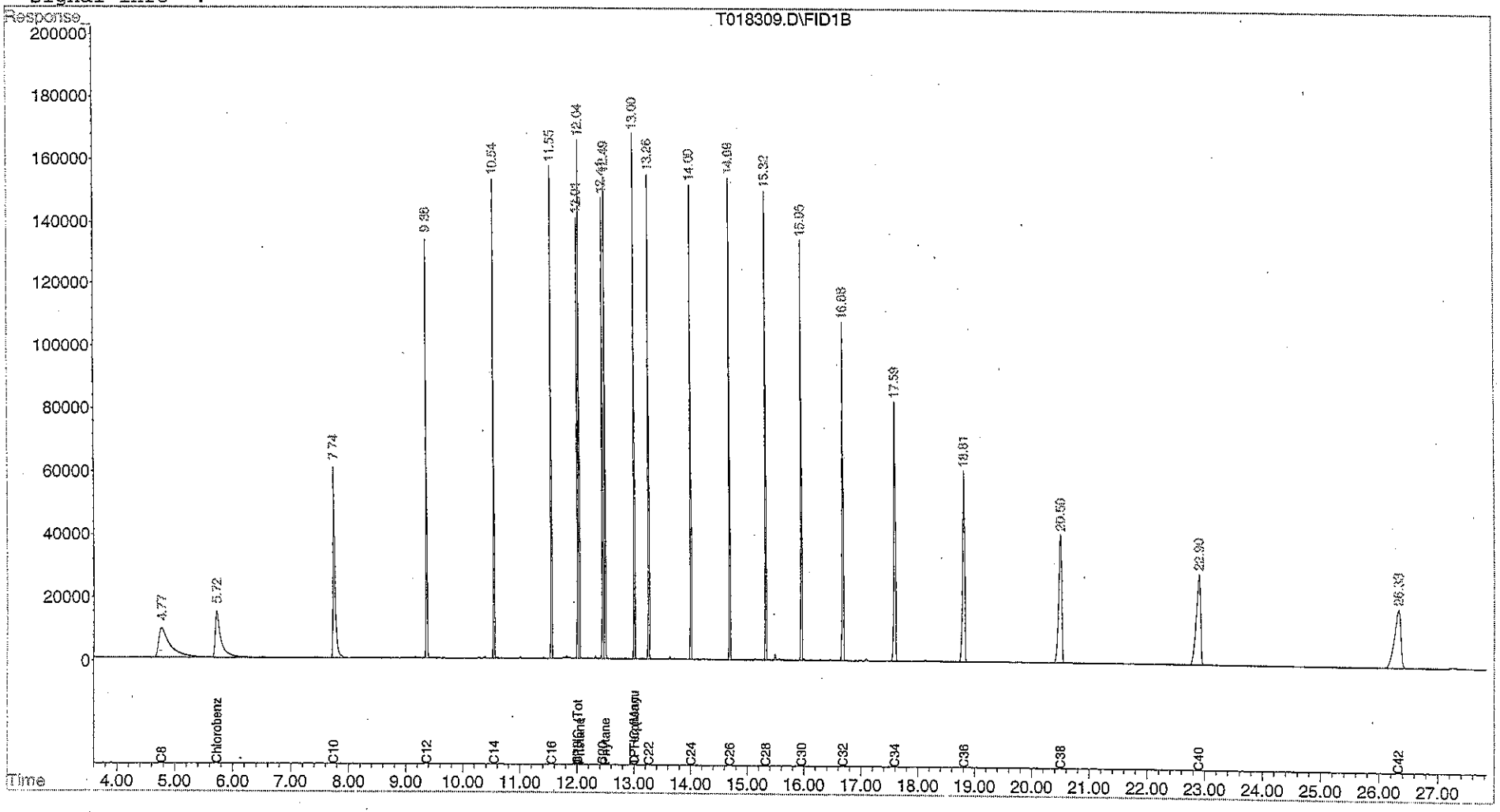
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060201\T018309.D Vial: 12
Acq On : 1 Feb 2006 6:33 pm Operator: B.Patel
Sample : Tstd050 Inst : GC/MS Ins
Misc : TP020106.01 Multiplr: 1.00
IntFile : EVENTSBP.E
Quant Time: Feb 2 7:58 2006 Quant Results File: TPHC003.RES

Quant Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
Title : GC TPH Method
Last Update : Tue Oct 25 07:55:20 2005
Response via : Multiple Level Calibration
DataAcq Meth : TPHC003.M

Volume Inj. :
Signal Phase :
Signal Info :



460000

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\060201\T018318.D Vial: 21
Acq On : 2 Feb 2006 12:13 am Operator: B.Patel
Sample : Tstd050 Inst : GC/MS Ins
Misc : TP020106.01 Multiplr: 1.00
IntFile : EVENTSBP.E

Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
Title : GC TPH Method
Last Update : Tue Oct 25 07:55:20 2005
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	T	C8	27.037	26.127 E3	3.4	98	0.00
2	T	C10	28.359	27.736 E3	2.2	98	0.00
3	T	C12	28.295	27.859 E3	1.5	98	0.00
4	T	C14	28.566	28.205 E3	1.3	98	0.00
5	T	C16	29.246	28.852 E3	1.3	98	0.00
6	T	C18	28.143	27.798 E3	1.2	98	0.00
7	T	C20	28.970	28.546 E3	1.5	98	0.00
8	T	C22	29.821	29.336 E3	1.6	98	0.00
9	T	C24	30.220	29.689 E3	1.8	98	0.00
10	T	C26	31.097	29.991 E3	3.6	97	0.00
11	T	C28	30.765	30.032 E3	2.4	97	0.00
12	T	C30	31.300	30.469 E3	2.7	96	0.00
13	T	C32	31.022	30.172 E3	2.7	96	0.00
14	T	C34	31.496	30.071 E3	4.5	96	0.00
15	T	C36	33.639	30.666 E3	8.8	96	0.00
16	T	C38	30.799	29.871 E3	3.0	96	0.00
17	T	C40	30.077	29.433 E3	2.1	95	0.00
18	T	C42	28.308	27.494 E3	2.9	95	0.00
19	T	Pristane	29.297	28.798 E3	1.7	98	0.00
20	T	Phytane	30.249	29.418 E3	2.7	98	0.00
21	T	TPHC (Manual Integration)	35.921	32.977 E3	8.2	97	0.00
22	H	TPHC (Total)	30.816	29.281 E3	5.0	96	0.00
23	S	Chlorobenzene (SURR.)	20.465	20.351 E3	0.6	97	0.00
24	S	O-Terphenyl (SURR.)	33.111	32.719 E3	1.2	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060201\T018318.D Vial: 21
Acq On : 2 Feb 2006 12:13 am Operator: B.Patel
Sample : Tstd050 Inst : GC/MS Ins
Misc : TP020106.01 Multiplr: 1.00
IntFile : EVENTSBP.E
Quant Time: Feb 2 7:59 2006 Quant Results File: TPHC003.RES

Quant Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
Title : GC TPH Method
Last Update : Tue Oct 25 07:55:20 2005
Response via : Initial Calibration
DataAcq Meth : TPHC003.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
23) S Chlorobenzene (SURR.)	5.72	1017568	49.097 mg/L
Spiked Amount 10.000	Recovery =	490.97%	
24) S O-Terphenyl (SURR.)	13.00	1635933	49.533 mg/L
Spiked Amount 10.000	Recovery =	495.33%	
Target Compounds			
1) T C8	4.77	1306332	48.316 mg/L
2) T C10	7.74	1386808	48.902 mg/L
3) T C12	9.36	1392930	49.229 mg/L
4) T C14	10.54	1410228	49.368 mg/L
5) T C16	11.55	1442612	49.327 mg/L
6) T C18	12.01	1389900	49.387 mg/L
7) T C20	12.44	1427286	49.267 mg/L
8) T C22	13.26	1466822	49.187 mg/L
9) T C24	14.00	1484470	49.123 mg/L
10) T C26	14.69	1499526	48.220 mg/L
11) T C28	15.32	1501576	48.808 mg/L
12) T C30	15.95	1523445	48.673 mg/L
13) T C32	16.68	1508578	48.629 mg/L
14) T C34	17.59	1503549	47.738 mg/L
15) T C36	18.81	1533317	45.581 mg/L
16) T C38	20.50	1493535	48.493 mg/L
17) T C40	22.89	1471662	48.930 mg/L
18) T C42	26.32	1374706	48.562 mg/L
19) T Pristane	12.04	1439916	49.149 mg/L
20) T Phytane	12.49	1470896	48.626 mg/L
21) T TPHC (Manual Integration)	13.00	32977434	918.054 mg/L m
22) H TPHC (Total)	12.00	29281173	950.199 mg/L

(f)=RT Delta > 1/2 Window (m)=manual int.

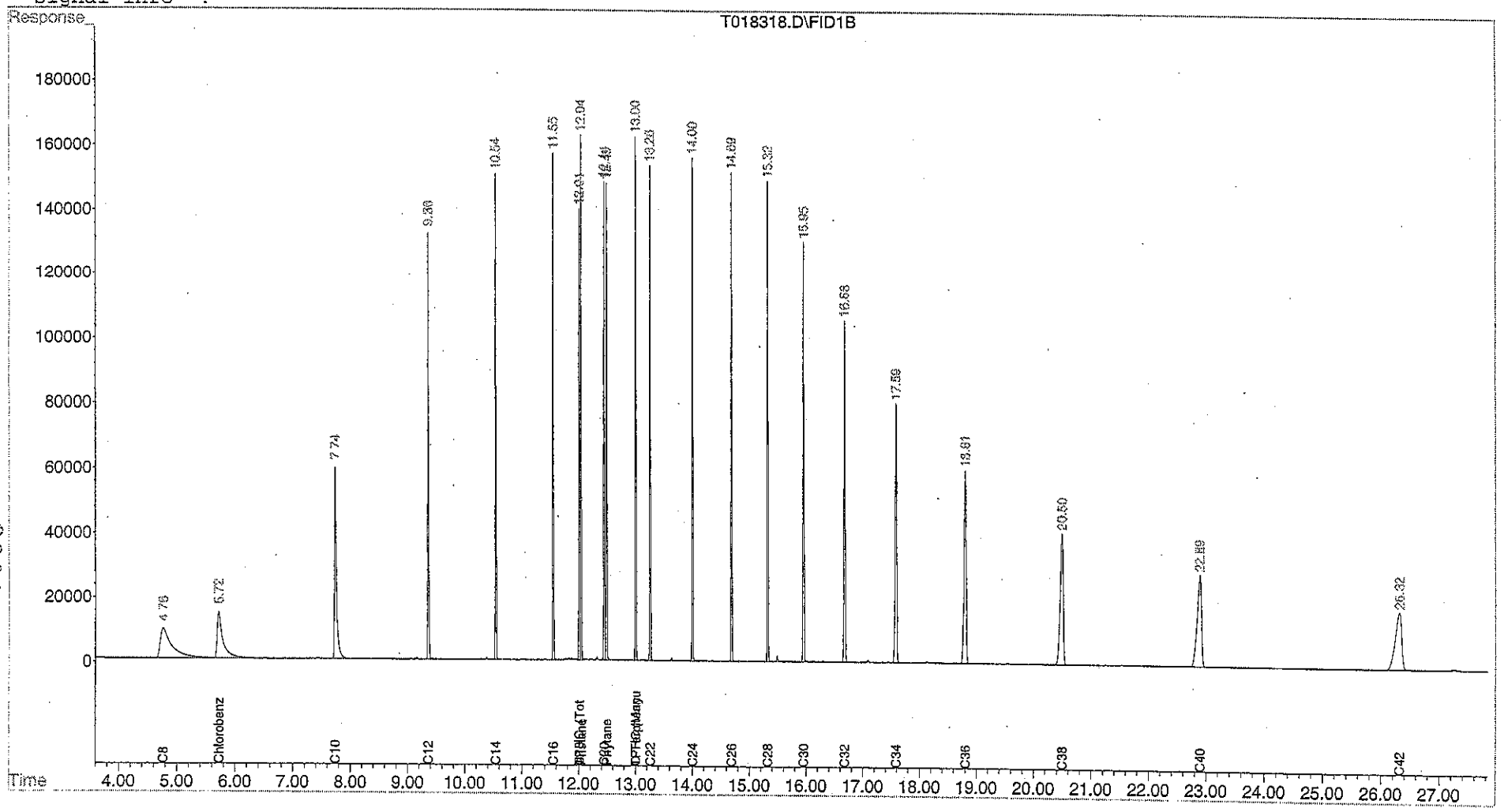
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060201\T018318.D
Acq On : 2 Feb 2006 12:13 am
Sample : Tstd050
Misc : TP020106.01
IntFile : EVENTSBP.E
Quant Time: Feb 2 7:59 2006 Quant Results File: TPHC003.RES

Vial: 21
Operator: B.Patel
Inst : GC/MS Ins
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
Title : GC TPH Method
Last Update : Tue Oct 25 07:55:20 2005
Response via : Multiple Level Calibration
DataAcq Meth : TPHC003.M

Volume Inj. :
Signal Phase :
Signal Info :



001000

Surrogate Recovery Report
U.S.Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Project # :**	60057
	DPW. SELFM-PW-EV	**Location :**	614
	Bldg. 173	**UST Reg. # :**	06-34880
	Ft. Monmouth, NJ 07703		
Analysis:	OQA-QAM-025	**Date Received :**	26-Jan-06
Matrix:	Soil	**Date Extracted :**	1-Feb-06
Inst. ID.	GC TPHC INST. #1	**Extraction Method :**	Shake
Column Type :	RTX-5, 0.32mm ID, 30M	**Analysis Complete :**	2-Feb-06
Injection Volume :	1uL	**Analyst :**	B.Patel

Lab ID	Surrogate Added (ppm)	Chlorobenzene Recovered (ppm)	Chlorobenzene % Recovery	O-Terphenyl Recovered (ppm)	O-Terphenyl % Recovery
6005701	10	9.39	93.9	9.38	93.8
6005702	10	9.47	94.7	9.74	97.4
6005703	10	9.11	91.1	8.91	89.1
METHOD BLANK	10	8.52	85.2	8.39	83.9

SURROGATE STANDARDS		Lower Control Limits	Upper Control Limits
Chlorobenzene	*QC Limits*	60	130
O-Terphenyl	*QC Limits*	62	133

Matrix Spike/ Duplicate Recovery Report
U.S.Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Project # :**	60057
	DPW. SELFM-PW-EV	**Location :**	614
	Bldg. 173	**UST Reg. # :**	06-34880
	Ft. Monmouth, NJ 07703		
Analysis:	OQA-QAM-025	**Date Received :**	26-Jan-06
Matrix:	Soil	**Date Extracted :**	1-Feb-06
Inst. ID.	GC TPHC INST. #1	**Extraction Method :**	Shake
Column Type :	RTX-5, 0.32mm ID, 30M	**Analysis Complete :**	2-Feb-06
Injection Volume :	1uL	**Analyst :**	B.Patel

Sample	Spike Amount Added (ppm)	Sample Amount (ppm)	Matrix Spike Amount (ppm)	Percent Recovery	QC Limits %
6005601MS	1000	0.13	942.53	94.24	55 - 129
6005601MSD	1000	0.13	993.58	99.35	55 - 129
			RPD	5.27	20.00

NC = Not Calculated due to values are over the calibration range.

Quality Control Check Standard Summary
U.S.Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Project # :**	60057
	DPW. SELFM-PW-EV	**Location :**	614
	Bldg. 173	**UST Reg. # :**	06-34880
	Ft. Monmouth, NJ 07703		
Analysis:	OQA-QAM-025	**Date Received :**	26-Jan-06
Matrix:	Soil	**Date Extracted :**	1-Feb-06
Inst. ID.	GC TPHC INST. #1	**Extraction Method :**	Shake
Column Type :	RTX-5, 0.32mm ID, 30M	**Analysis Complete :**	2-Feb-06
Injection Volume :	1uL	**Analyst :**	B.Patel

Sample	Date Extracted	Spike Amount Added (ppm)	Matrix Spike Amount (ppm)	Percent Recovery	QC Limits %
LCS-020106-01	01-Feb-06	1000	828.85	82.89	55 - 129

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060201\T018299.D Vial: 2
Acq On : 1 Feb 2006 12:18 pm Operator: Skelton
Sample : MB-020106-01 Inst : GC/MS Ins
Misc : TP020106.01 Multiplr: 1.00
IntFile : EVENTSBP.E
Quant Time: Feb 1 15:44 2006 Quant Results File: TPHC003.RES

Quant Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
Title : GC TPH Method
Last Update : Tue Oct 25 07:55:20 2005
Response via : Initial Calibration
DataAcq Meth : TPHC003.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
23) S Chlorobenzene (SURR.)	5.72	177063	8.515	mg/L
Spiked Amount 10.000	Recovery	=	85.15%	
24) S O-Terphenyl (SURR.)	13.00	281860	8.389	mg/L
Spiked Amount 10.000	Recovery	=	83.89%	
Target Compounds				
1) T C8	0.00	0	N.D.	mg/L
2) T C10	0.00	0	N.D.	mg/L
3) T C12	0.00	0	N.D.	mg/L
4) T C14	0.00	0	N.D.	mg/L
5) T C16	11.81f	2251	0.077	mg/L
6) T C18	11.81	2251	0.080	mg/L
7) T C20	12.51	1819	0.063	mg/L
8) T C22	13.13	1782	0.060	mg/L
9) T C24	14.22	1412	0.047	mg/L
10) T C26	14.70	1534	0.049	mg/L
11) T C28	15.14	1711	0.056	mg/L
12) T C30	15.99	1838	0.059	mg/L
13) T C32	16.46	1759	0.057	mg/L
14) T C34	17.60	1549	0.049	mg/L
15) T C36	19.25f	1003	0.030	mg/L
16) T C38	0.00	0	N.D.	mg/L
17) T C40	0.00	0	N.D.	mg/L
18) T C42	0.00	0	N.D.	mg/L
19) T Pristane	11.81	2251	0.077	mg/L
20) T Phytane	12.51	1819	0.060	mg/L
21) T TPHC (Manual Integration)	0.00	0	N.D.	mg/L d
22) H TPHC (Total)	12.00	26725	0.867	mg/L

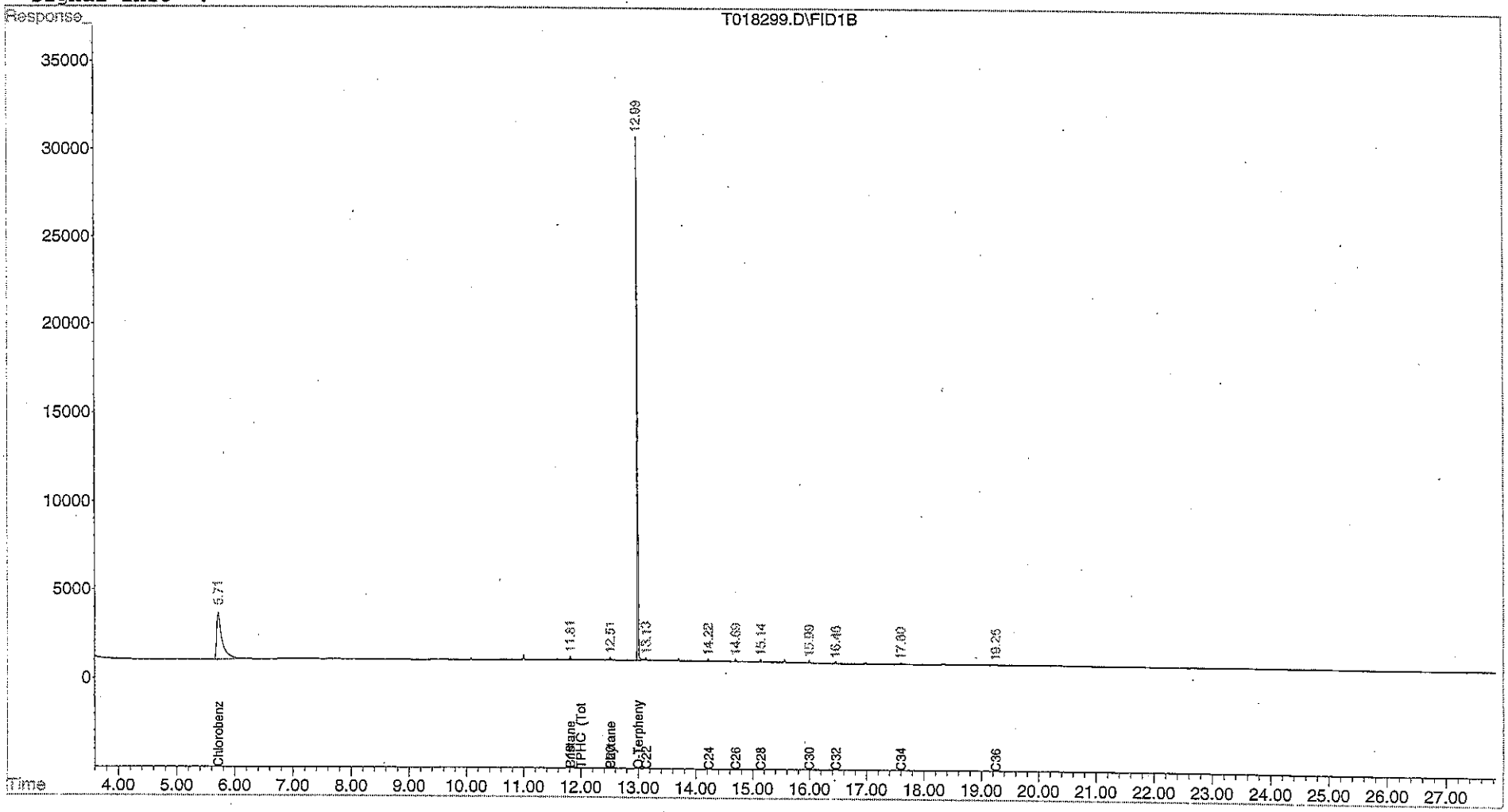
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060201\T018299.D Vial: 2
Acq On : 1 Feb 2006 12:18 pm Operator: Skelton
Sample : MB-020106-01 Inst : GC/MS Ins
Misc : TP020106.01 Multiplr: 1.00
IntFile : EVENTSBP.E
Quant Time: Feb 1 15:44 2006 Quant Results File: TPHC003.RES

Quant Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
Title : GC TPH Method
Last Update : Tue Oct 25 07:55:20 2005
Response via : Multiple Level Calibration
DataAcq Meth : TPHC003.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060201\T018307.D Vial: 10
Acq On : 1 Feb 2006 5:17 pm Operator: B.Patel
Sample : 6005701s Inst : GC/MS Ins
Misc : Multiplr: 1.00
IntFile : EVENTSBP.E
Quant Time: Feb 2 8:01 2006 Quant Results File: TPHC003.RES

Quant Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
Title : GC TPH Method
Last Update : Tue Oct 25 07:55:20 2005
Response via : Initial Calibration
DataAcq Meth : TPHC003.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
23) S Chlorobenzene (SURR.)	5.72	195206	9.391	mg/L	
Spiked Amount 10.000	Recovery	=	93.91%		
24) S O-Terphenyl (SURR.)	13.00	314589	9.383	mg/L	m
Spiked Amount 10.000	Recovery	=	93.83%		
Target Compounds					
1) T C8	0.00	0	N.D.	mg/L	
2) T C10	0.00	0	N.D.	mg/L	
3) T C12	9.36	2959	0.105	mg/L	
4) T C14	10.54	27444	0.961	mg/L	
5) T C16	11.54	15288	0.523	mg/L	
6) T C18	12.00	14088	0.501	mg/L	
7) T C20	12.44	18851	0.651	mg/L	
8) T C22	13.25	8489	0.285	mg/L	
9) T C24	14.00	2057	0.068	mg/L	
10) T C26	0.00	0	N.D.	mg/L	
11) T C28	0.00	0	N.D.	mg/L	
12) T C30	0.00	0	N.D.	mg/L	
13) T C32	0.00	0	N.D.	mg/L	
14) T C34	0.00	0	N.D.	mg/L	
15) T C36	0.00	0	N.D.	mg/L	
16) T C38	0.00	0	N.D.	mg/L	
17) T C40	0.00	0	N.D.	mg/L	
18) T C42	0.00	0	N.D.	mg/L	
19) T Pristane	12.03	38407	1.311	mg/L	
20) T Phytane	12.48	35272	1.166	mg/L	
21) T TPHC (Manual Integration)	0.00	0	N.D.	mg/L	d
22) H TPHC (Total)	12.00	1222295	39.665	mg/L	

(f)=RT Delta > 1/2 Window (m)=manual int

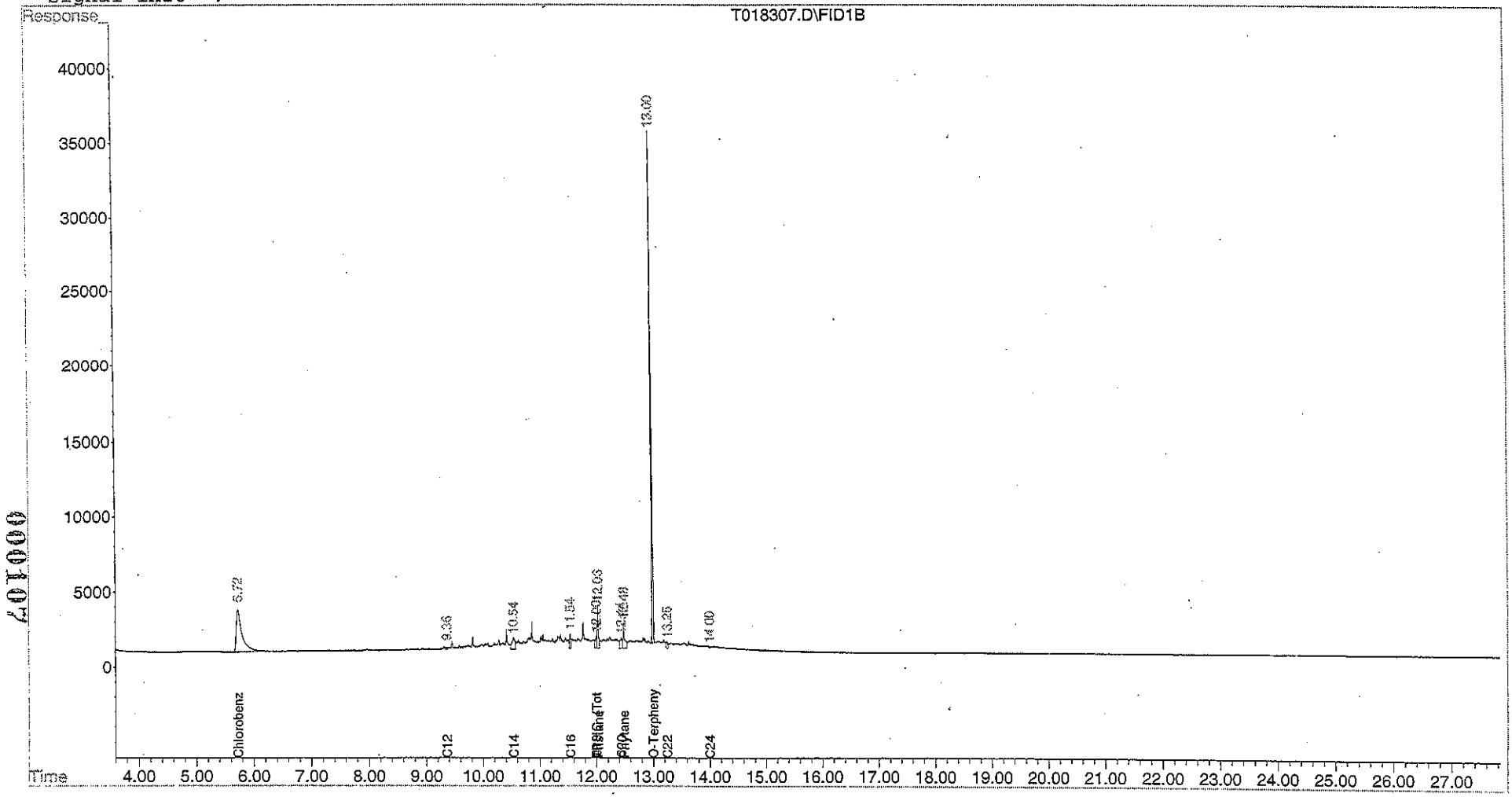
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060201\T018307.D
Acq On : 1 Feb 2006 5:17 pm
Sample : 6005701s
Misc :
IntFile : EVENTSBP.E
Quant Time: Feb 2 8:01 2006 Quant Results File: TPHC003.RES

Vial: 10
Operator: B.Patel
Inst : GC/MS Ins
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
Title : GC TPH Method
Last Update : Tue Oct 25 07:55:20 2005
Response via : Multiple Level Calibration
DataAcq Meth : TPHC003.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060201\T018308.D Vial: 11
Acq On : 1 Feb 2006 5:55 pm Operator: B.Patel
Sample : 6005702s Inst : GC/MS Ins
Misc : Multiplr: 1.00
IntFile : EVENTSBP.E
Quant Time: Feb 2 8:02 2006 Quant Results File: TPHC003.RES

Quant Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
Title : GC TPH Method
Last Update : Tue Oct 25 07:55:20 2005
Response via : Initial Calibration
DataAcq Meth : TPHC003.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
23)	S Chlorobenzene (SURR.)	5.72	196842	9.470	mg/L	
Spiked Amount	10.000	Recovery	=	94.70%		
24)	S O-Terphenyl (SURR.)	13.00	326163	9.735	mg/L	m
Spiked Amount	10.000	Recovery	=	97.35%		
	Target Compounds					
1)	T C8	0.00	0	N.D.	mg/L	
2)	T C10	7.73	15744	0.555	mg/L	
3)	T C12	9.36	101489	3.587	mg/L	
4)	T C14	10.56	212000	7.421	mg/L	
5)	T C16	11.54	200712	6.863	mg/L	
6)	T C18	11.99	109749	3.900	mg/L	
7)	T C20	12.43	120066	4.144	mg/L	
8)	T C22	13.24	113630	3.810	mg/L	
9)	T C24	14.00	60897	2.015	mg/L	
10)	T C26	14.68	42781	1.376	mg/L	
11)	T C28	15.29	4075	0.132	mg/L	
12)	T C30	0.00	0	N.D.	mg/L	
13)	T C32	0.00	0	N.D.	mg/L	
14)	T C34	0.00	0	N.D.	mg/L	
15)	T C36	0.00	0	N.D.	mg/L	
16)	T C38	0.00	0	N.D.	mg/L	
17)	T C40	0.00	0	N.D.	mg/L	
18)	T C42	0.00	0	N.D.	mg/L	
19)	T Pristane	12.03	751825	25.662	mg/L	
20)	T Phytane	12.48	643606	21.277	mg/L	
21)	T TPHC (Manual Integration)	0.00	0	N.D.	mg/L	d
22)	H TPHC (Total)	12.00	24652918	800.008	mg/L	

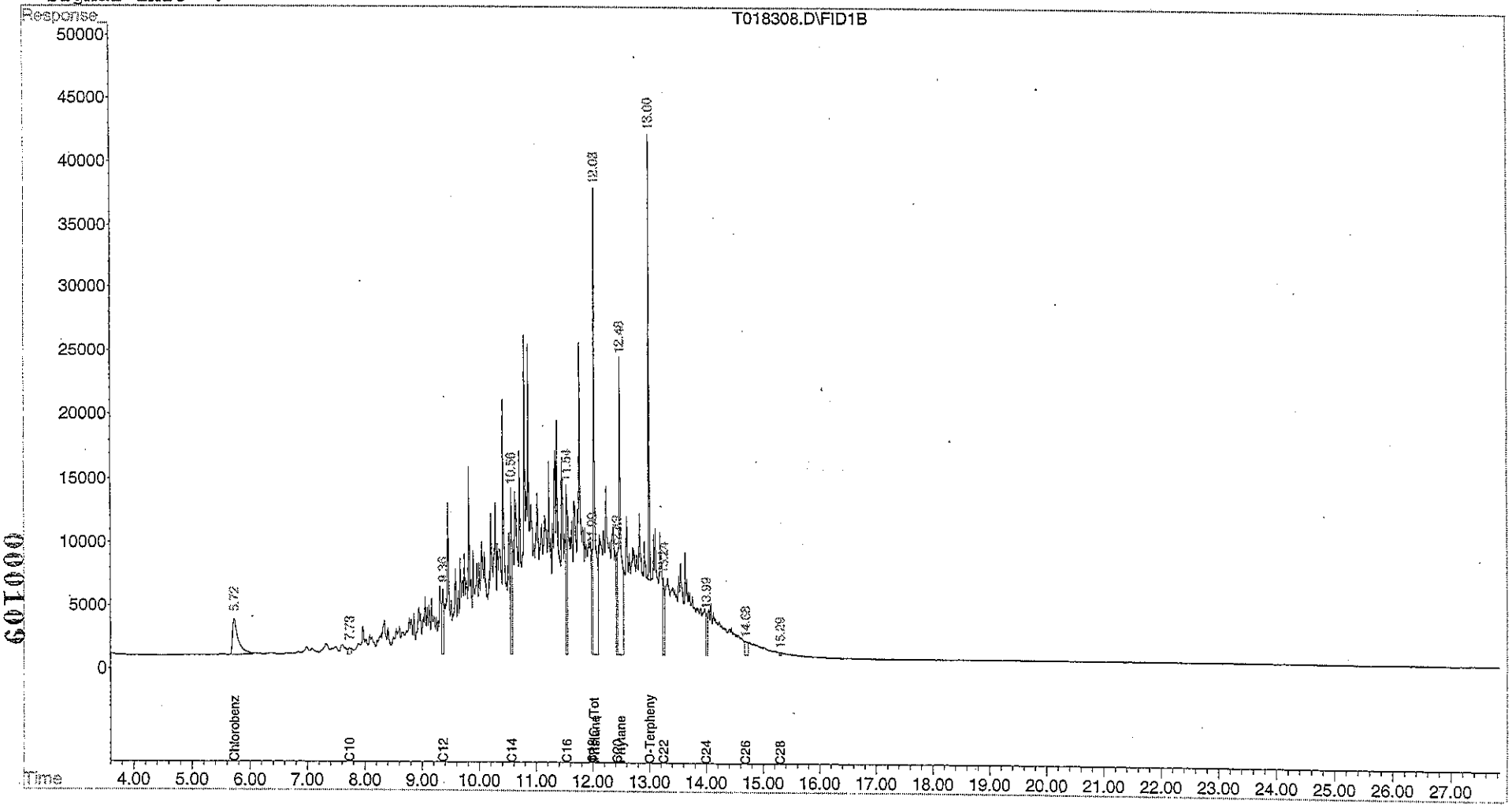
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060201\T018308.D Vial: 11
Acq On : 1 Feb 2006 5:55 pm Operator: B.Patel
Sample : 6005702s Inst : GC/MS Ins
Misc : Multiplr: 1.00
IntFile : EVENTSBP.E
Quant Time: Feb 2 8:02 2006 Quant Results File: TPHC003.RES

Quant Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
Title : GC TPH Method
Last Update : Tue Oct 25 07:55:20 2005
Response via : Multiple Level Calibration
DataAcq Meth : TPHC003.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060201\T018310.D Vial: 13
Acq On : 1 Feb 2006 7:11 pm Operator: B.Patel
Sample : 6005703s Inst : GC/MS Ins
Misc : Multiplr: 1.00
IntFile : EVENTSBP.E
Quant Time: Feb 2 8:02 2006 Quant Results File: TPHC003.RES

Quant Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
Title : GC TPH Method
Last Update : Tue Oct 25 07:55:20 2005
Response via : Initial Calibration
DataAcq Meth : TPHC003.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
23)	S Chlorobenzene (SURR.)	5.72	189300	9.106	mg/L
Spiked Amount	10.000	Recovery	=	91.06%	
24)	S O-Terphenyl (SURR.)	13.00	298935	8.908	mg/L
Spiked Amount	10.000	Recovery	=	89.08%	
	Target Compounds				
1)	T C8	0.00	0	N.D.	mg/L
2)	T C10	0.00	0	N.D.	mg/L
3)	T C12	0.00	0	N.D.	mg/L
4)	T C14	0.00	0	N.D.	mg/L
5)	T C16	0.00	0	N.D.	mg/L
6)	T C18	0.00	0	N.D.	mg/L
7)	T C20	0.00	0	N.D.	mg/L
8)	T C22	13.00f	298935	10.024	mg/L
9)	T C24	0.00	0	N.D.	mg/L
10)	T C26	0.00	0	N.D.	mg/L
11)	T C28	0.00	0	N.D.	mg/L
12)	T C30	0.00	0	N.D.	mg/L
13)	T C32	0.00	0	N.D.	mg/L
14)	T C34	0.00	0	N.D.	mg/L
15)	T C36	0.00	0	N.D.	mg/L
16)	T C38	0.00	0	N.D.	mg/L
17)	T C40	0.00	0	N.D.	mg/L
18)	T C42	0.00	0	N.D.	mg/L
19)	T Pristane	0.00	0	N.D.	mg/L
20)	T Phytane	0.00	0	N.D.	mg/L
21)	T TPHC (Manual Integration)	0.00	0	N.D.	mg/L d
22)	H TPHC (Total)	12.00	1208	0.039	mg/L

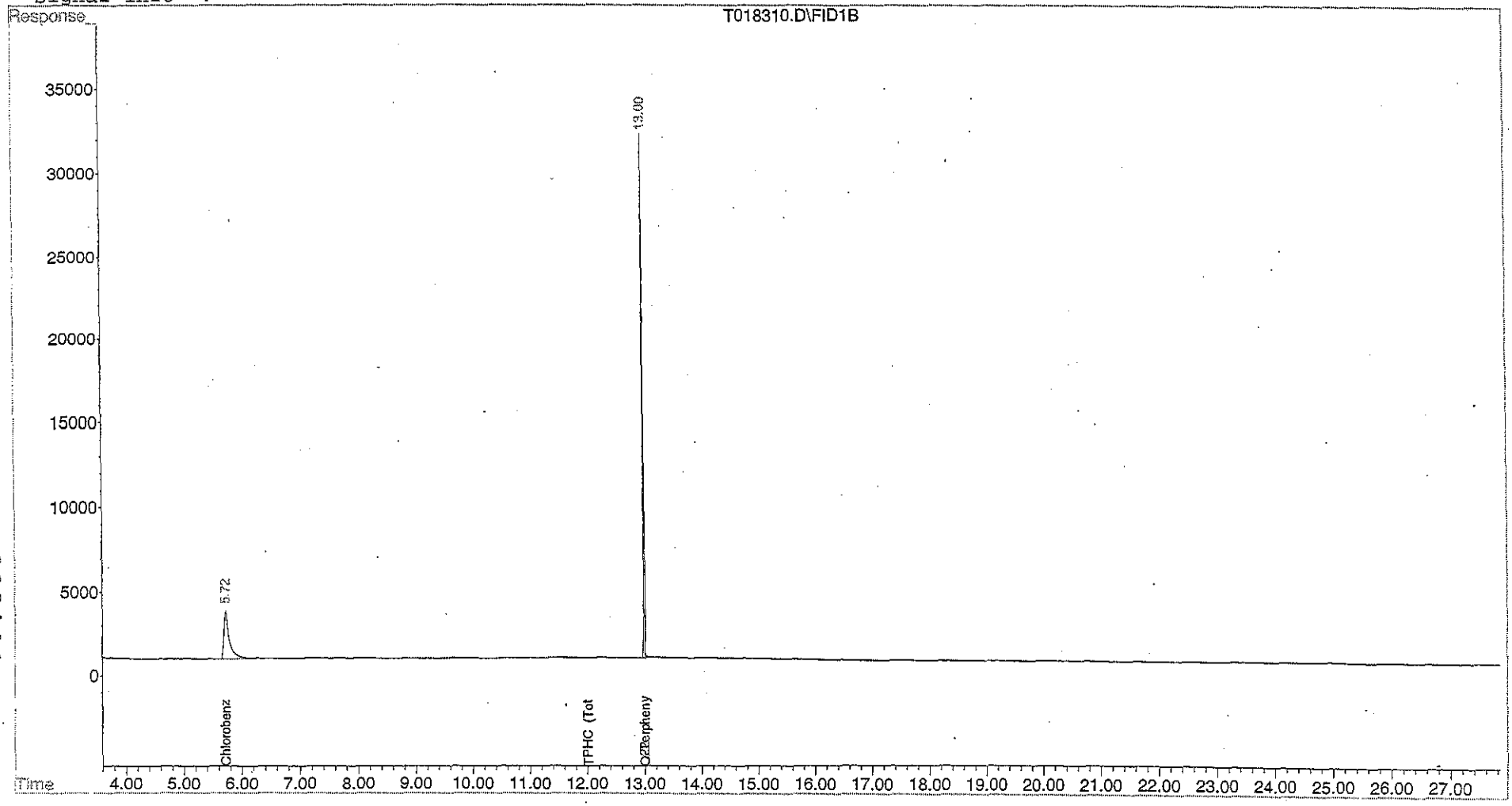
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060201\T018310.D Vial: 13
Acq On : 1 Feb 2006 7:11 pm Operator: B.Patel
Sample : 6005703s Inst : GC/MS Ins
Misc : Multiplr: 1.00
IntFile : EVENTSBP.E
Quant Time: Feb 2 8:02 2006 Quant Results File: TPHC003.RES

Quant Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
Title : GC TPH Method
Last Update : Tue Oct 25 07:55:20 2005
Response via : Multiple Level Calibration
DataAcq Meth : TPHC003.M

Volume Inj. :
Signal Phase :
Signal Info :



000111

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: 3/8/06

Laboratory Certification # 13461

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

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.

Daniel K. Wright
Laboratory Manager