



DEPARTMENT OF THE ARMY

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

May 21, 2015

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

**Re: Request for No Further Action at Parcel 61
Fort Monmouth, New Jersey**

Attachments:

- A. Figure 1.9 Layout of Parcel 61
- B. Underground Storage Tank Report Main Post - (Former) Building 1076
- C. UST Closure Approval/NFA for Building 1076
- D. Figure 1 Fort Monmouth Patterson Army Health Clinic Public Sale/Lease Parcel and Intersecting ECP Parcel

Previous Correspondence and Reports (not attached):

- 1. NJDEP letter to the U.S. Army dated August 8, 2012, re: *Property Category Determination*
- 2. Calibre (BRAC Contract Support) letter to NJDEP dated July 23, 2012, re: *Parcel 61 Property Category Determination*.
- 3. NJDEP letter to the U.S. Army dated July 10, 2012, re: *March 2012 Army Response to NJDEP Correspondence Letter Dated October 28, 2008*.
- 4. U.S. Army letter to NJDEP dated March 16, 2012, re: *Army's Response to NJDEP Correspondence (Dated October 28, 2008), Draft Site Investigation*.
- 5. NJDEP letter to the U.S. Army dated October 28, 2008, re: *Draft Site Investigation Report*.
- 6. U.S. Army BRAC, July 2008, *US ARMY BRAC 2005 Draft Site Investigation Report, Fort Monmouth*

Dear Ms. Range:

In response to the New Jersey Department of Environmental Protection (NJDEP) letter to the U.S. Army (Army) dated July 10, 2012 (Correspondence 3) regarding the Parcel 61 results presented in the July 2008, US Army BRAC 2005, Draft Site Investigation Report (Correspondence 6), the U.S. Army Fort Monmouth (FTMM) and Parsons have reviewed existing information collected within Environmental Condition of Property (ECP) Parcel 61. The purpose of this letter is to provide support for a No Further Action (NFA) determination by

NJDEP for Parcel 61. This letter report serves as an addendum to the previously submitted 2008 Draft Site Investigation Report.

Parcel 61 is located in the south-central portion of the Main Post and encompasses Patterson Army Health Clinic (Building 1075) and the surrounding land (see **Attachment A**). Building 1075 was constructed in 1961 to house Patterson Army Hospital and was used continuously for that function until it was downgraded to a health clinic in 1995. In the 1960s, 1970s, and 1980s activities in the building included X-ray processing and laboratory operations. During a 2006 site inspection, numerous floor drains were observed in the basement that lead to the pneumatic sewage ejector and into the sanitary sewer (U.S. Army BRAC, 2008). Building 1075 has been unoccupied since BRAC closure in September 2011 according to the USACE.

The site investigation of Parcel 61 was conducted in December 2007. A total of four surface soil samples (one hand augered, three Geoprobe[®] locations) were collected and analyzed for Total Compound List (TCL) + Tentatively Identified Compounds (TICs) (without pesticides; and Total Analyte List (TAL) metals. Three polycyclic aromatic hydrocarbons (PAHs) were detected at concentrations exceeding the then-current NJDEP Non-Residential Direct Contact Soil Cleanup Criteria (NRDCSCC) in one surface soil sample, P61-SS1 (see **Attachment A**). The 2008 Draft Site Investigation report recommended further delineation of PAHs in shallow soil.

In the NJDEP letter to the Army dated October 28, 2008 (Correspondence 5), the NJDEP concurred with the recommendation to conduct additional soil sampling and also requested additional PCB analysis. However, in the Army letter to NJDEP dated March 16, 2012 (Correspondence 4), the Army concludes that Parcel 61 has extensive asphalt pavement, and that the PAHs detected in shallow soil can be attributed to anthropogenic sources that are not associated with historical activities at the site. The Army also stated that operations at Parcel 61 did not involve the storage or disposal of PCB- containing products. In Correspondence 3, the NJDEP agreed that PAHs were not indicative of a discharge or operations performed at the site, but rather representative of the paving formerly existing in the area, and that no additional action was necessary. NJDEP also stated that analyses for PCBs were not required. In Correspondence 3, the NJDEP requested additional information on UST 1076-209, which is provided below.

In the Calibre letter to the NJDEP dated July 23, 2012 (Correspondence 2), Calibre on behalf of the Army requested that the NJDEP recategorize the majority of Parcel 61 (excluding the area near Parcel 64) from a Category 7 (*“areas that are not evaluated or require additional evaluation”*) to Category 1 (*“areas where no release or disposal of hazardous substances or petroleum products has occurred, including no migration of such substances from adjacent areas”*). In the NJDEP letter to the Army dated August 8, 2012 (Correspondence 1), the NJDEP concurred with the proposal to change the property classification for the majority of Parcel 61 from a Category 7 to a Category 1.

Correspondence 2 indicates that all but a small portion of Parcel 61 was subject to re-categorization, as quoted below:

“The area not included for re-categorization is within the area currently undergoing remediation from former underground storage tanks at Building 812 (also known as FTMM-64)”.

Correspondence 2 references a figure (provided as **Attachment D**) that shows the area not included for re-categorization, as a small portion of Parcel 61 land alongside Parcel 64 (which coincides with FTMM-64). We propose to incorporate this small area into Parcel 64 as shown on **Attachment D**.

Underground Storage Tank (UST) Information:

In the letter dated July 10, 2012 (Correspondence 3) the NJDEP provided the following comment:

UST 1076-209 - Although Appendix G indicated the enclosure report was being prepared, recent conversation indicates no submittal of the report is anticipated as the tank was a "clean closure". This would, of course, not allow for comment or designation of NFA for this tank. Additionally information previously submitted indicates this tank was installed at a location at which leaking UST was removed and remediated. It does not appear closure information for that UST was submitted.

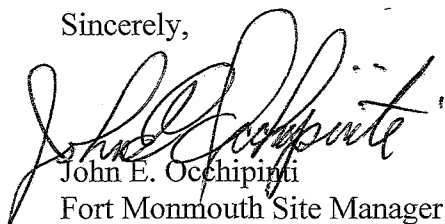
The location of this tank is shown on **Attachment A**.

UST 1076-209 was removed in 2005 and documented in the 2007 Underground Storage Tank Closure Report, Main Post - (Former) Building 1076. A copy of the closure report is included as **Attachment B**. A total of nine samples were collected along the sidewalls and bottom of the excavation and the samples were analyzed for total petroleum hydrocarbons (TPH). The analytical results for the nine samples were below the method detection limit.

UST 1076-209 was a replacement for tanks 1076-160 and 1076-161 (see **Attachment A**) which were removed in 1993. The Underground Storage Tank Closure and Site Investigation Report for Building 1076 (Tanks 1076-160 and 1076-161) was submitted to the NJDEP on June 1, 2000 and a NFA approval letter for these tanks was received from the NJDEP dated August 29, 2000. A copy of the NJDEP NFA approval letter for the two tanks is provided as **Attachment C**.

In summary, the USTs have been properly closed and the Army requests an NFA designation for the entire Parcel 61, as currently defined as shown in **Attachment D**. Should you have any questions or require additional information, please contact me at (732) 383-5104 or by email at john.e.occhipinti.civ@mail.mil.

Sincerely,



John E. Occhipinti
Fort Monmouth Site Manager

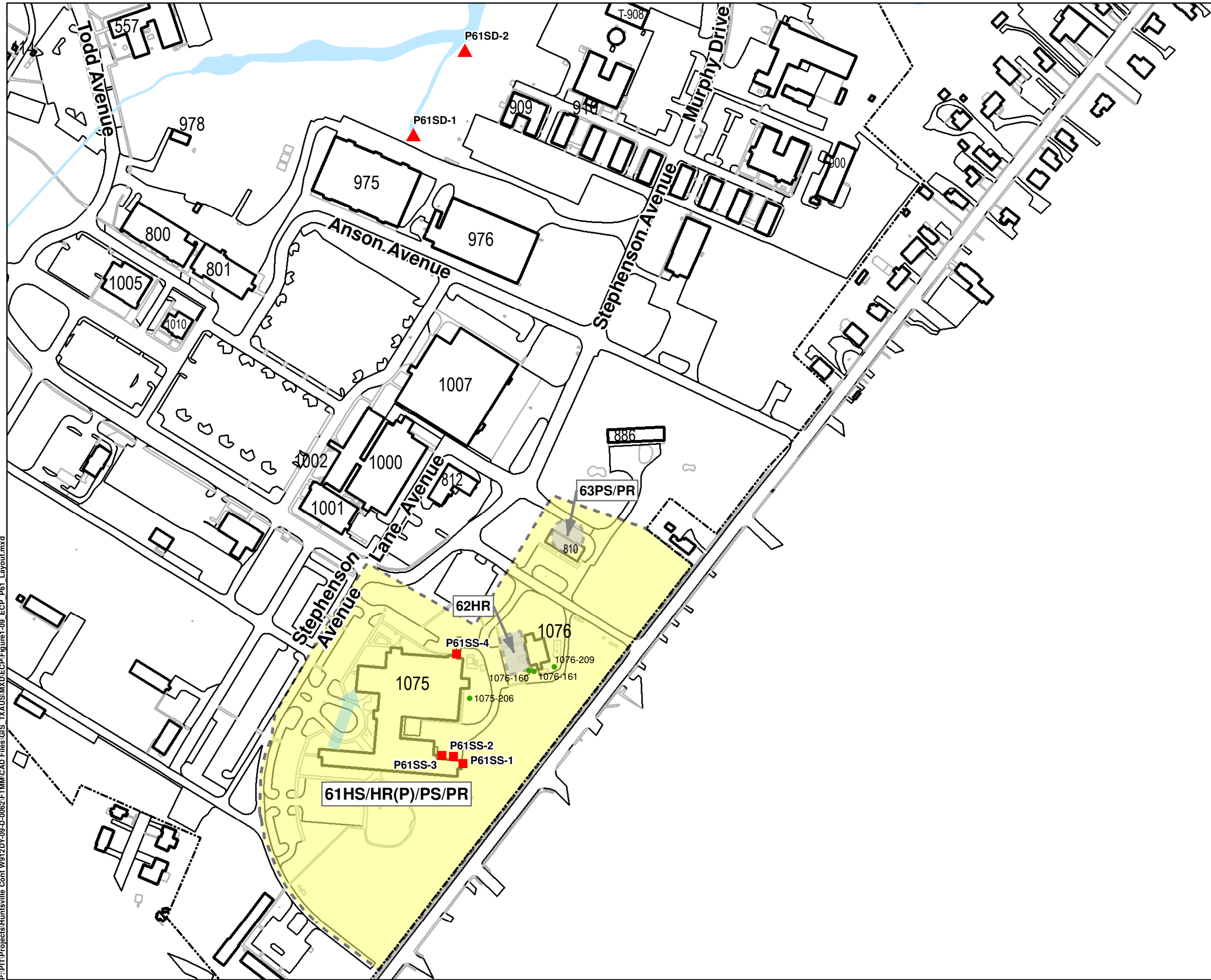
cc: Delight Balducci, HQDA ACSIM
Joseph Pearson, Calibre

James Moore, USACE
Cris Grill, Parsons

ATTACHMENT A

Figure 1.9 Layout of Parcel 61

P:\PTT\Projects\Huntsville Cont W912DY-09-P-0062\FTMMCAD Files\GIS TXAUS\MXD\ECP\Figure1-09_ECP_P61_Layout.mxd



LEGEND:

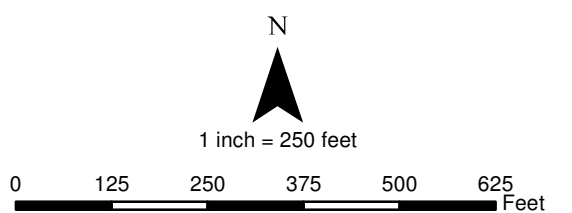
- Historic Surface Soil Sample Location
- ▲ Historic Sediment Sample Location
- Parcel 61 Boundary
- Parcels 62 and 63 (not included in Site Investigation)
- Surface Water Feature
- Installation Boundary
- Former UST Locations
- ← Generalized Groundwater Flow Direction

NOTE:

No further action letter received August 29, 2000 for UST 1075-206.

BRAC Parcel Label Definitions

8(2)PS	Contaminant Description	HS – Hazardous Substance Storage
		HR – Hazardous Substance Release
		PS – Petroleum Storage
		PR – Petroleum Release
		(P) – Possible Release or Disposal
	Category Number	
	Parcel Number	



Source: FTMM Supplied CAD, 2013; U.S. Army BRAC, 2008; 2008 SI Report; USGS NHD, 2012.

PARSONS 401 Diamond Drive NW, Huntsville AL		Fort Monmouth New Jersey	
LAYOUT OF PARCEL 61			
CREATED BY: RR		REVIEWED BY: ME	
DATE: MAY. 2015		FIGURE NUMBER: FIGURE 1.9	
PROJECT NUMBER: 748810-06006		FILE: Figure1-09_ECP_P61_Layout.mxd	

ATTACHMENT B

**Underground Storage Tank Report Main Post - (Former) Building 1076
(Tank 1076-209)**

BLDG. 1076 UST



U.S. Army Garrison
Fort Monmouth, New Jersey

**Underground Storage Tank
Closure Report**

Main Post – (former) Bldg. 1076

NJDEP UST Registration No. 081533-209

January 2007

UNDERGROUND STORAGE TANK REPORT

**MAIN POST -(FORMER) BUILDING 1076
NJDEP UST REGISTRATION NO. 081533-209**

JANUARY 2007

PROJECT NO.: 05-41615

PREPARED FOR:

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

PREPARED BY:

**TECOM-VINNELL SERVICES, INC.
P.O. BOX 60
FT. MONMOUTH, NJ 07703**

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Table 2 Summary of Laboratory Analytical Results-TPH

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Appendix B UST Disposal Certificate

Appendix C Soil Analytical Data Package



EXECUTIVE SUMMARY

UST Closure

On January 12, 2005, a double wall fiberglass underground storage tank (UST) was closed by removal in accordance with the Directorate of Public Works (DPW) UST Management Plan for the U S Army Garrison, Fort Monmouth, New Jersey. The UST was located next to former Building 1076 in the Main Post area of Fort Monmouth. UST No 81533-209 was a 20,000-gallon No 2 heating oil tank. The fill port and associated double wall supply/return piping was present in the excavation and also removed. The tank closure was performed by TECOM-Vinnell Services, Inc (TVS).

Site Assessment

The 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* (August, 2005). Soils surrounding the tank were screened visually and with air monitoring instruments for evidence of contamination. Following removal, the UST was inspected for holes. No holes were found in the UST and no contaminated soils were observed surrounding the tank.

After removing the UST and piping, closure soil samples were collected. Samples 1076A, 1076B, 1076C, 1076D, 1076E, 1076F, 1076G, 1076H, 1076I and 1076J-Duplicate were collected from a total of nine (9) locations along the sidewalls bottom of the excavation. All samples were analyzed for total petroleum hydrocarbons (TPH). Groundwater was encountered at approximately 5.5 feet below surface grade in the excavation.

Findings

All the closure soil samples collected from the UST excavation associated with former UST No 81533-209 contained no TPH concentrations above the laboratory method detection limits. All samples were Not Detected.

Site Restoration

Following receipt of the closure soil sampling results, the excavation was backfilled to grade with a combination of excavated soil and clean fill. The excavation site was then restored to its original grade with four inches of topsoil and seeded.

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

No Further Action is proposed in regard to the closure and site assessment of UST No 81533-209 at (former) Building 1076

1.0 UNDERGROUND STORAGE TANK DECOMMISSIONING ACTIVITIES

1.1 OVERVIEW

One underground storage tank (UST), New Jersey Department of Environmental Protection (NJDEP) Registration No 081533-209, was closed at (former) Building 1076 of Main Post at U S Army Garrison, Fort Monmouth, New Jersey on January 12, 2005. Refer to site location map on Figure 1. This report presents the results of the implementation of the DPW's UST Management Plan, March, 1996. The UST was a 20,000-gallon, double-wall fiberglass tank containing No. 2 heating oil for fuel supply to a boiler plant for the hospital.

Decommissioning activities for UST No. 81533-209 complied with all applicable federal, state and local laws and ordinances in effect at the date of decommissioning. These laws included but were not limited to N.J.A.C. 7:14B-1 et seq., N.J.A.C. 5:23-1 et seq., and Occupational Safety and Health Administration (OSHA) 1910.146 & 1910.120. The closure and subsurface evaluation of the UST was conducted by a NJDEP licensed TVS employee.

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 May 19, 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 decommissioning activities. Section 2 of this report describes the UST closure and site investigation activities. Conclusions and recommendations, including the results of the soil sampling investigation, are presented in Section 3 of this report.



1.2 SITE DESCRIPTION

Building 1076, was located in the eastern portion of the Main Post area of Fort Monmouth. UST No 81533-209 was located on the east side of Building 1076. The fill port, double wall supply/return piping and vent were present in the excavation and also removed. A site map is provided in Figure 1.

1.2.1 Geological/Hydrogeological Setting

The following is a description of the geological/hydrogeological setting of the former Building 1076 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 (Zapczka, 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 Zapczka, 1990).

Local Geology

Based on the regional geologic map (Jablonski, 1968), the Cretaceous age Red Bank and Tinton Sands outcrop at the Main Post area. The Red Bank sand conformably overlies the Navesink Formation and dips to the southeast at 35 feet per mile. The upper member

(Shrewsbury) of the Red Bank sand is a yellowish-gray to reddish brown clayey, medium- to coarse-grained sand that contains abundant rock fragments, minor mica and glauconite (Jablonski) The lower member (Sandy Hook) is a dark gray to black, medium-to-fine grained sand with abundant clay, mica, and glauconite

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

Hydrogeology

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

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

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

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

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

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

Building 1076 was located approximately 1,650 feet south of Husky Brook, the nearest water body, which flows into Oceanport Creek and then into the Shrewsbury River. Based on the Main Post topography, the groundwater flow in the area of Building 1076 is anticipated to be to the north.

1.3 HEALTH AND SAFETY

Work site health and safety hazards were minimized during all decommissioning 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).

1.4 REMOVAL OF UNDERGROUND STORAGE TANK

1.4.1 General Procedures

- All underground utilities were marked out by the respective shops or utility contractor prior to excavation activities.
- All activities were carried out with great regard to safety and health and the safeguarding of the environment.
- All excavated soils were visually examined and screened with an OVM for evidence of contamination. Potentially contaminated soils were identified and logged during closure activities.
- Surface materials (i.e., asphalt, concrete, etc.) were excavated and staged separately from all soil and recycled in accordance with all applicable regulations and laws.
- A certified Subsurface Evaluator was present during all closure activities.

1.4.2 Underground Storage Tank Excavation

During decommissioning activities, surficial soil was removed to expose the UST. The tank was out-of-service due to the scheduled demolition of the building. It was previously emptied of all liquids prior to removal from the ground.

After the UST was removed from the excavation, it was staged on polyethylene sheeting, labeled and examined. No holes were observed in the tank during the inspection by the Subsurface Evaluator. Soils surrounding the UST were screened visually and with an OVA for evidence of contamination. No contamination was observed during the UST removal.

1.5 UNDERGROUND STORAGE TANK DECOMMISSIONING AND DISPOSAL

The UST was purged with air to remove vapors prior to cutting. A 4 foot by 3 foot access hole was made in the UST using a demolition saw. The UST was cleaned first with rubber squeegees and adsorbent material broomed on the sidewalls and bottom. The adsorbent material was then drummed and subsequently put into Ft. Monmouth's 'Oil Spill Debris' roll-off container for proper disposal. The atmosphere in and around the tank was monitored using an OVM and an Oxygen/Lower Explosive Level (LEL) meter to ensure safe working conditions during cutting and cleaning activities.

The tank was then transported by TVS to Recycling Technology Center, Inc., Shafto Rd., Tinton Falls, NJ for disposal in compliance with all applicable regulations and laws. Refer to Appendix B for UST disposal certificate.

The Subsurface Evaluator labeled the UST with the following information:

- site of origin
- NJDEP UST Facility ID number
- date of removal
- size of tank
- previous contents of tank

FIGURES

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 (August, 2005). 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 closure. All records of the Remedial 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 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 12, 2005, closure soil samples 1076A, 1076B, 1076C, 1076D, 1076E, 1076F, 1076G, 1076H, 1076I and 1076J-Duplicate were collected from a total of nine (9) locations along the sidewalls of the UST excavation and along the piping. Groundwater was encountered at approximately 5.5 feet in the excavation. All samples were analyzed for TPH.

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 I. The closure soil samples were collected 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.

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 SOIL SAMPLING RESULTS

Closure soil samples were collected from a total of nine locations on January 12, 2005 to evaluate soil conditions following removal of the UST and piping. 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 C.

Closure soil samples collected on January 12, 2005 from the UST No. 81533-209 excavation contained concentrations of TPH below the laboratory method detection limits. All soil samples were Not Detected.

3.2 CONCLUSIONS AND RECOMMENDATIONS

The analytical results for all soil samples collected from the UST closure excavation at UST No. 81533-209 were below the NJDEP soil cleanup criteria for total organic contaminants.

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. 81533-209.

No Further Action is proposed in regard to the closure and site assessment of UST No. 81533-209 at (former) Building 1076.

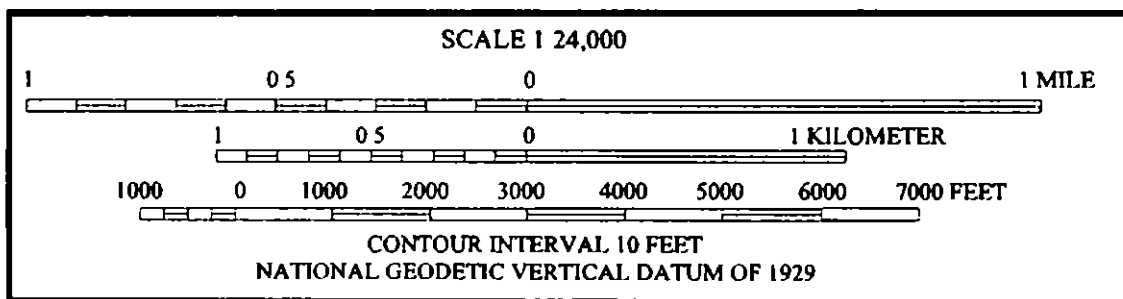
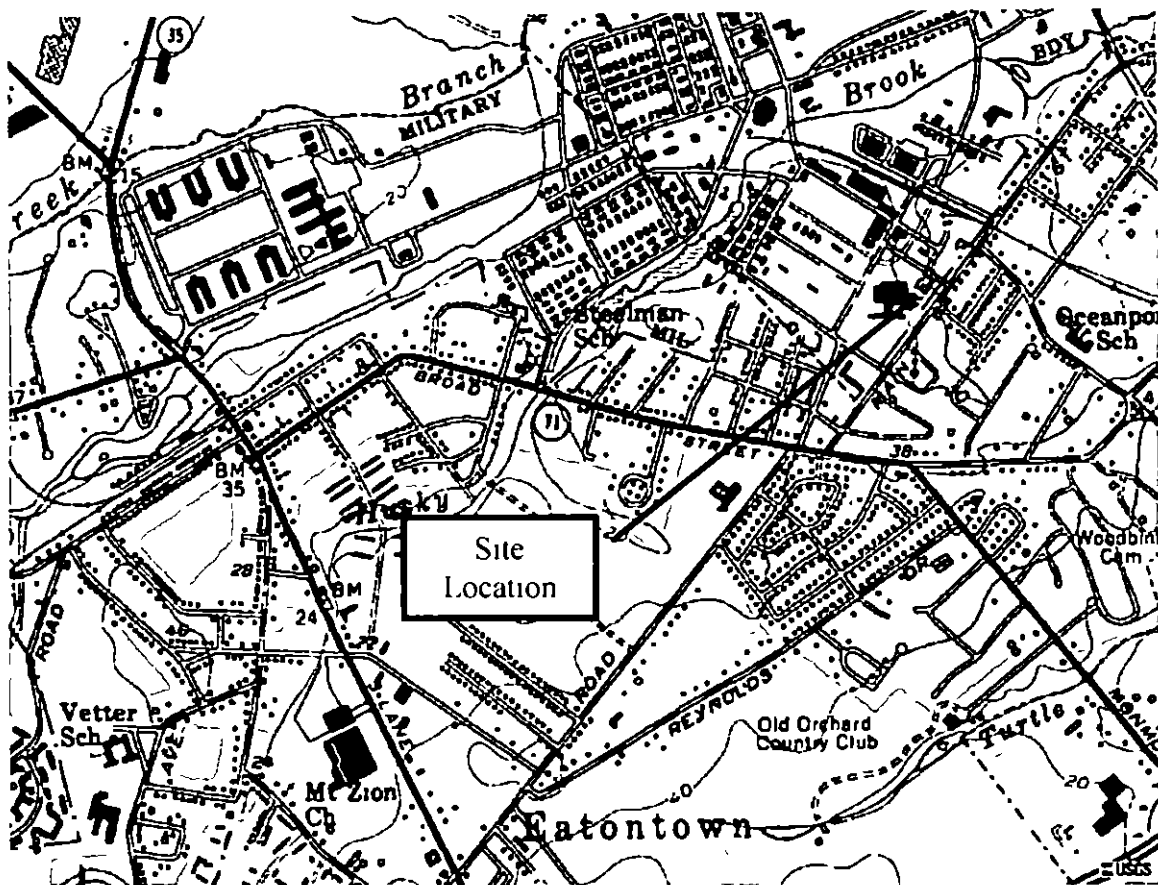


FIGURE 1

SITE LOCATION MAP
BUILDING 1076
UST NO 81533-209
FT MONMOUTH, NJ

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

1076

20K UST

1076A → ○
1076B → ○
1076I → ○
1076C → ○
1076H → ○
1076G ← ○
1076D ← ○
1076E ← ○
1076F ← ○

10

FIGURE 2
Soil Sample Location Map
Building 1076

U.S. Army Garrison
Fort Monmouth, NJ

SCALE:
1"=20' Approx.

DATE:
January, 2007

TABLES

TABLE 1

**SUMMARY OF LABORATORY ANALYSIS
FT MONMOUTH, (FORMER) BUILDING 1076, UST No 81533-209
12 January 2005**

SAMPLE ID	LABORATORY SAMPLE ID	SAMPLE DATE	SAMPLE MATRIX	ANALYTICAL PARAMETER	ANALYTICAL METHOD
1076A	5002001	12-January-05	SOIL	TPH	OQA-QAM-25
1076B	5002002	12-January-05	SOIL	TPH	OQA-QAM-25
1076C	5002003	12-January-05	SOIL	TPH	OQA-QAM-25
1076D	5002004	12-January-05	SOIL	TPH	OQA-QAM-25
1076E	5002005	12-January-05	SOIL	TPH	OQA-QAM-25
1076F	5002006	12-January-05	SOIL	TPH	OQA-QAM-25
1076G	5002007	12-January-05	SOIL	TPH	OQA-QAM-25
1076H	5002008	12-January-05	SOIL	TPH	OQA-QAM-25
1076I	5002009	12-January-05	SOIL	TPH	OQA-QAM-25
1076J (dupl B)	5002010	12-January-05	SOIL	TPH	OQA-QAM-25
TRIP BLANK	5002011	12-January-05	METHANOL	VOA	SW-846 8260

ABBREVIATIONS

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

VOA = Volatile Organic Analysis EPA SW-846 Method 8260

TABLE 2

SUMMARY OF LABORATORY ANALYTICAL RESULTS
FT. MONMOUTH, (FORMER) BUILDING 1076, UST No. 81533-209
12 January 2005

TOTAL PETROLEUM HYDROCARBONS

SAMPLE ID	LABORATORY SAMPLE ID	SAMPLE LOCATION	SAMPLE DEPTH	MATRIX	TPH RESULTS
			(in feet)		mg/kg
1076A	5002001	Northwest Wall UST 1	5 0 - 5 5	Soil	ND
1076B	5002002	Northwest Wall UST 2	5 0 - 5 5	Soil	ND
1076C	5002003	Northwest Wall UST 3	5 0 - 5 5	Soil	ND
1076D	5002004	Southeast Wall UST 1	5 0 - 5 5	Soil	ND
1076E	5002005	Southeast Wall UST 2	5 0 - 5 5	Soil	ND
1076F	5002006	Southeast Wall UST 3	5 0 - 5 5	Soil	ND
1076G	5002007	Northeast Wall UST 1	5 0 - 5 5	Soil	ND
1076H	5002008	Southwest Wall UST 1	5 0 - 5 5	Soil	ND
1076I	5002009	Piping	2 0 - 2 5	Soil	ND
1076J (dupl B)	5002010	Duplicate (Northwest Wall UST 2)	5 0 - 5 5	Soil	ND
Trip Blank	5002011	---	---	Methanol	--

ABBREVIATIONS

mg/kg = Milligrams Per Kilogram = parts per million

ND = Compound Not Detected

NA = Compound Not Analyzed

*= Further Analyzed for Volatiles

Notes

Gray shading indicates exceedance of NJDEP

health based criterion of 10,000 ppm total organic contaminants



APPENDIX A

CERTIFICATIONS

Site Remediation Program
UST Site Remedial Investigation Report

A. Facility Name (former) Building 1076, Boiler Plant
Facility Street Address Guardrail 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 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 Greg Zalaskus
UST Registration Number 81533-209 (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 Box 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

UST DISPOSAL CERTIFICATE

Mazza & Sons
C05-00673

Bldg. 1076, 20,000 GAL.
DBL. WALL FIBERGLASS UST

Origin FORT MONMOUTH - MONMOUTH

DATE IN: 01/13/2005 TIME IN: 14 54 30

DATE OUT: 01/13/2005 TIME OUT: 15:11

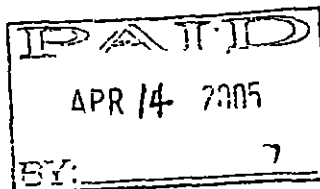
INBOUND TICKET Number 01-000556

SCALE 1 GROSS WT	35300 LB
SCALE 1 TARE WT	22500 LB
NET WEIGHT	12800 LB

Qty	Description	Amount
6.40	INCOMING BULKY WAST	550 40

NET CHARGE AMOUNT: 550 40

x Frank Anzisi



APPENDIX C

SOIL ANALYTICAL DATA PACKAGE

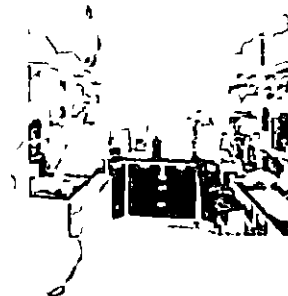
FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS

PHONE (732) 532-4359 FAX (732) 532-6263

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

CERTIFICATIONS NJDEP #13461, NYSDOH #11699



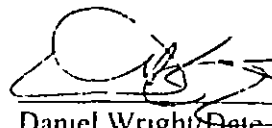
ANALYTICAL DATA REPORT Fort Monmouth Environmental Laboratory ENVIRONMENTAL DIVISION Fort Monmouth, New Jersey PROJECT BLDG 1076

Bldg. 1076

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
1076A-NW Wall 1	5002001	Soil	12-Jan-05 13 55	01/13/05
1076B-NW Wall 2	5002002	Soil	12-Jan-05 14 10	01/13/05
1076C-NW Wall 3	5002003	Soil	12-Jan-05 14 30	01/13/05
1076D-SE Wall 1	5002004	Soil	12-Jan-05 13 00	01/13/05
1076E-SE Wall 2	5002005	Soil	12-Jan-05 13 13	01/13/05
1076F-SE Wall 3	5002006	Soil	12-Jan-05 13 30	01/13/05
1076G-NE Wall	5002007	Soil	12-Jan-05 13 42	01/13/05
1076H-SW Wall	5002008	Soil	12-Jan-05 14 44	01/13/05
1076I-Piping	5002009	Soil	12-Jan-05 15 10	01/13/05
1076J-Duplicate	5002010	Soil	12-Jan-05 14 10	01/13/05
Trip Blank	5002011	Methanol	12-Jan-05	01/13/05

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
TPHC, % SOLIDS

ENCLOSURE
CHAIN OF CUSTODY
RESULTS


Daniel Wright
Laboratory Director

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

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CHAIN OF CUSTODY

100001

Fort Monmouth Environmental Testing Laboratory

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

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

NJDEP Certification #13461

Chain of Custody Record

Customer: <u>NOUG GUENTHER</u>				Project No <u>05-71615</u>		Analysis Parameters						Comments:		
Phone # <u>X 20986</u>				Location <u>Bldg. 1076</u>		TPH	* VO+15				PID (ppm)	DEPTH (ft)	VIA #	
() DERA () OMA () Other _____														
Samplers Name / Company <u>FRANK ACCORSI/RVS</u>				Sample #										
LIMS/Work Order #	Sample Location	Date	Time	Type	bottles								Remarks / Preservation Method	
<u>00020 01</u>	<u>1076A - NW WALL 1</u>	<u>1-12-05</u>	<u>1355</u>	<u>SOIL</u>	<u>2</u>	<u>X</u>	<u>X</u>				<u>0</u>	<u>5-55</u>	<u>4141</u>	<u>ICE</u>
<u>02</u>	<u>1076B - NW WALL 2</u>		<u>1410</u>		<u>2</u>	<u>X</u>	<u>X</u>				<u>0</u>	<u>5-55</u>	<u>4142</u>	
<u>03</u>	<u>1076C - NW WALL 3</u>		<u>1430</u>		<u>2</u>	<u>X</u>	<u>X</u>				<u>0</u>	<u>5-55</u>	<u>4143</u>	
<u>04</u>	<u>1076D - SE WALL 1</u>		<u>1300</u>		<u>2</u>	<u>X</u>	<u>X</u>				<u>0</u>	<u>5-55</u>	<u>4144</u>	
<u>05</u>	<u>1076E - SE WALL 2</u>		<u>1313</u>		<u>2</u>	<u>X</u>	<u>X</u>				<u>0</u>	<u>5-55</u>	<u>4145</u>	
<u>06</u>	<u>1076F - SE WALL 3</u>		<u>1370</u>		<u>2</u>	<u>X</u>	<u>X</u>				<u>0</u>	<u>5-55</u>	<u>4146</u>	
<u>07</u>	<u>1076G - NE WALL</u>		<u>1342</u>		<u>2</u>	<u>X</u>	<u>X</u>				<u>0</u>	<u>5-55</u>	<u>4147</u>	
<u>08</u>	<u>1076H - SW WALL</u>		<u>1444</u>		<u>2</u>	<u>X</u>	<u>X</u>				<u>0</u>	<u>5-55</u>	<u>4148</u>	
<u>09</u>	<u>1076I - PIPING</u>		<u>1510</u>		<u>2</u>	<u>X</u>	<u>X</u>				<u>0</u>	<u>2-25</u>	<u>4149</u>	
<u>10</u>	<u>1076J - DUPLICATE</u>		<u>1410</u>		<u>2</u>	<u>X</u>	<u>X</u>				<u>0</u>	<u>5-55</u>	<u>4150</u>	
<u>11</u>	<u>TRIP BLANK</u>		<u>-</u>	<u>AQ.</u>	<u>1</u>		<u>X</u>				<u>-</u>	<u>-</u>	<u>4151</u>	
Relinquished by (signature) <u>[Signature]</u>				Date/Time <u>1-13-05 0810</u>	Received by (signature) <u>[Signature]</u>		Relinquished by (signature)		Date/Time	Received by (signature)				
Relinquished by (signature)				Date/Time	Received by (signature)		Relinquished by (signature)		Date/Time	Received by (signature)				
Report Type () Full (☒) Reduced, () Standard () Screen / non-certified, () EDD						Remarks <u>* VO+15 ON 2570 > 1,000 PPM TPH, ON HIGHEST, MIN. ONE</u>								
Turnaround time () Standard 3 wks, (☒) Rush 2 Days, () ASAP Verbal _____ Hrs														

US ARMY - FT. MONMOUTH, NJ

BUILDING 1076 - UST #81533-209

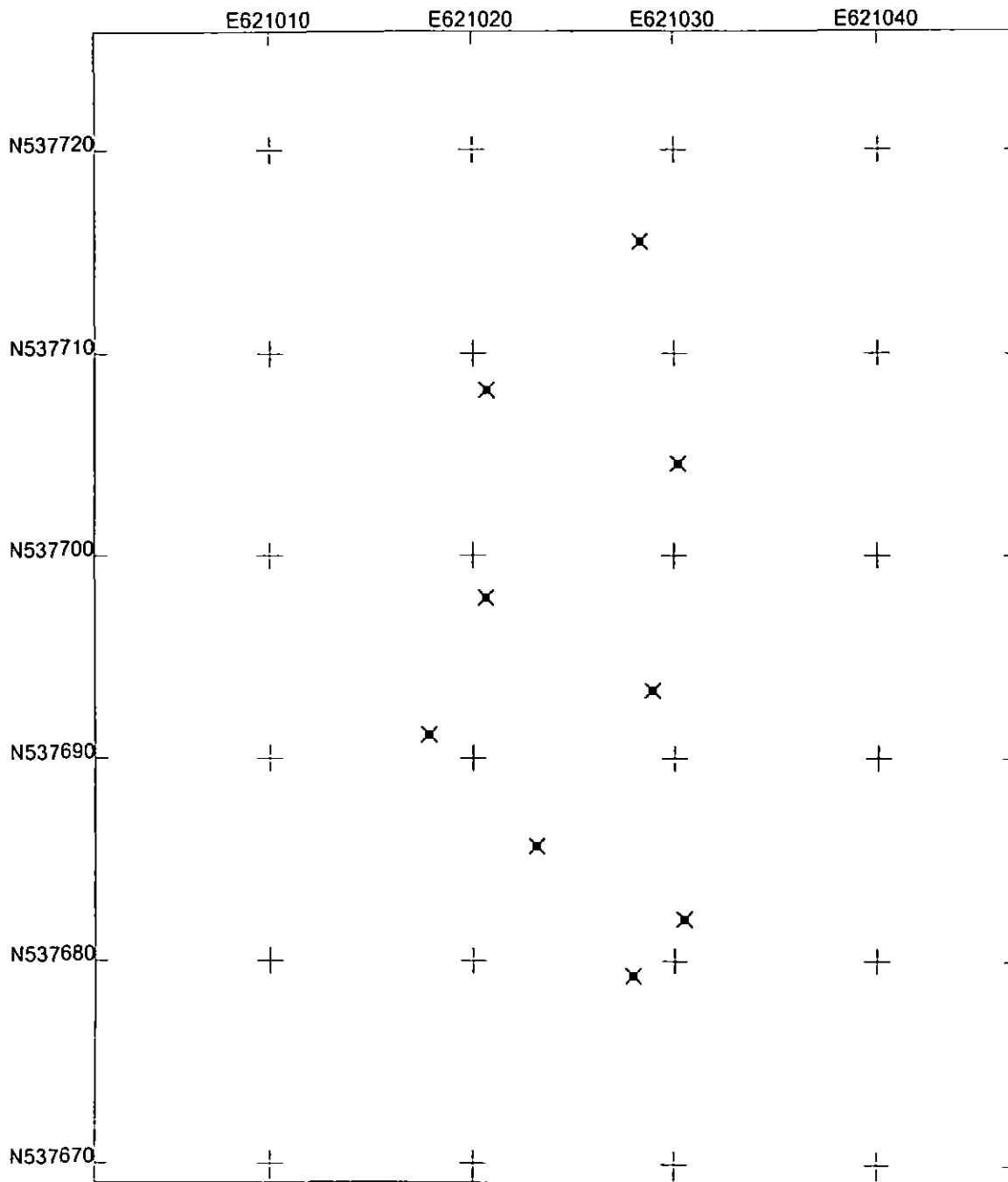
SOIL SAMPLE GPS POSITIONS & COORDINATES

US STATE PLANE 1983, NJ (NY EAST) 2900, NAD 1983 (CONUS)

(IN US SURVEY FEET)

SAMPLE POINTS

1076A NW WALL1	537708 23	621020 637
1076B NW WALL 2	537697 966	621020 565
1076C NW WALL 3	537685 682	621023 09
1076D SE WALL 1	537704 588	621030 137
1076E SE WALL 2	537693 397	621028 868
1076F SE WALL 3	537682 113	621030 422
1076G NORTH WALL	537715 536	621028 295
1076H SOUTH WALL	537679 308	621027 897
1076I PIPING	537691 193	621017 779



U.S. Army - Ft. Monmouth Bldg 1076 UST # 81533-209 Soil Sample GPS Map

US State Plane 1983
New Jersey 2900
NAD 1983 (Conus)



Scale 1 100
0 0.002
Miles

B1076 cor
2/28/2005
GPS Pathfinder
 Trimble

METHOD SUMMARY

Method Summary

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: 50020

Site: Bldg 1076

	Date	Hold Time
Date Sampled	01/12/05	NA
Receipt/Refrigeration	01/13/05	NA
Extractions		
1 TPHC	01/14/05	14 days
Analyses		
1 TPHC	01/19/05	40 days

100008

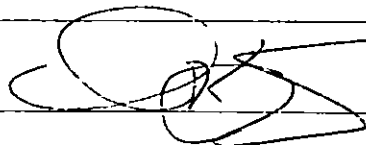
CONFORMANCE/ NON- CONFORMANCE SUMMARY

TPHC CONFORMANCE/NON-CONFORMANCE SUMMARY REPORT

		Indicate Yes, No, N/A
1	Method Detection Limits Provided	<u>yes</u>
2	Method Blank Contamination – If yes, list the sample and the corresponding concentrations in each blank _____ _____	<u>no</u>
3	Matrix Spike Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range) _____ _____	<u>yes</u>
4	Duplicate Results Summary Meet Criteria _____ _____	<u>yes</u>
5	IR Spectra submitted for standards blanks and samples	<u>na</u>
6	Chromatograms submitted for standards, blanks and samples if GC fingerprinting was conducted	<u>yes</u>
7	Analysis holding time met (If not met, list number of days exceeded for each sample) _____ _____	<u>yes</u>

Additional comments _____

Laboratory Manager



Date

3-4-05

TPHC

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

Client U S Army
 DPW SELF-M-PW EV
 Bldg 173
 Ft Monmouth, NJ 07703

Project # 50020
Location Bldg 1076
UST Reg #

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

Date Received 13-Jan-05
Date Extracted 14-Jan-05
Extraction Method Shake
Analysis Complete 19-Jan-05
Analyst B Patel

Lab ID	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	RL	TPHC Result (mg/kg)
5002001	1076A-NW	1.00	15.07	85.23	107	389	ND
5002002	1076B-NW	1.00	15.02	82.20	111	405	ND
5002003	1076C-NW	1.00	15.03	82.16	111	405	ND
5002004	1076D-SE	1.00	15.01	82.35	111	404	ND
5002005	1076E-SE	1.00	15.05	81.23	112	409	ND
5002006	1076F-SE	1.00	15.03	81.17	113	410	ND
5002007	1076G-NE	1.00	15.08	78.69	116	421	ND
5002008	1076H-SW	1.00	15.03	79.04	116	421	ND
5002009	1076I-Piping	1.00	15.00	89.37	103	373	ND
5002010	1076J-Duplicate	1.00	15.07	80.61	113	412	ND
METHOD BLANK	MB 011405-01	1.00	15.00	100.00	92	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\TPHC002 M (Chemstation Integrator)
 Title GC TPH Method
 Last Update Wed Dec 15 12 51 02 2004

Calibration Files
 5 =T017596 D 10 =T017598 D 20 =T017599 D
 50 =T017597 D 100 =T017595 D

Compound			5	10	20	50	100	Avg	%RSD	
1) T	C8		2 385	2 323	2 254	2 409	2 449	2 364	E4	3 24
2) T	C10		2 291	2 339	2 364	2 510	2 578	2 416	E4	5 04
3) T	C12		2 221	2 291	2 328	2 496	2 590	2 385	E4	6 41
4) T	C14		2 262	2 338	2 372	2 558	2 658	2 438	E4	6 74
5) T	C16		2 330	2 412	2 448	2 633	2 744	2 514	E4	6 77
6) T	C18		2 229	2 312	2 350	2 544	2 671	2 421	E4	7 48
7) T	C20		2 301	2 390	2 423	2 614	2 731	2 492	E4	7 06
8) T	C22		2 375	2 459	2 489	2 686	2 804	2 562	E4	6 90
9) T	C24		2 408	2 485	2 519	2 716	2 832	2 592	E4	6 79
10) T	C26		2 547	2 573	2 561	2 757	2 866	2 661	E4	5 39
11) T	C28		2 460	2 536	2 565	2 771	2 890	2 644	E4	6 77
12) T	C30		2 460	2 535	2 587	2 815	2 947	2 669	E4	7 65
13) T	C32		2 419	2 507	2 552	2 787	2 927	2 638	E4	8 01
14) T	C34		2 609	2 582	2 564	2 792	2 916	2 693	E4	5 74
15) T	C36		2 535	2 672	2 633	2 837	2 977	2 731	E4	6 43
16) T	C38		2 432	2 550	2 555	2 785	2 883	2 641	E4	7 05
17) T	C40		2 370	2 466	2 528	2 757	2 823	2 589	E4	7 47
18) T	C42		2 223	2 306	2 385	2 614	2 598	2 425	E4	7 22
19) T	Pristane		2 363	2 428	2 445	2 618	2 708	2 512	E4	5 73
20) T	Phytane		2 387	2 462	2 502	2 684	2 778	2 563	E4	6 34
21) T	TPHC (Manual Integrat		3 351	3 072	2 895	3 018	3 078	3 083	E4	5 41
22) H	TPHC (Total)		2 572	2 546	2 520	2 707	2 796	2 628	E4	4 50
23) S	Chlorobenzene (SURR)		1 577	1 657	1 695	1 849	1 897	1 735	E4	7 73
24) S	O-Terphenyl (SURR)		2 610	2 701	2 729	2 941	3 068	2 810	E4	6 71

Evaluate Continuing Calibration Report

Data File	C \HPCHEM\1\DATA\050118\T017679 D	Vial	76
Acq On	18 Jan 2005 7 58 am	Operator	PSkelton
Sample	Tstd050	Inst	GC/MS Ins
Misc	TP011805 01	Multiplr	1 00
IntFile	EVENTSBP E		

Method C \HPCHEM\1\METHODS\TPHC002 M (Chemstation Integrator)
 Title GC TPH Method
 Last Update Wed Dec 15 12 51 02 2004
 Response via Multiple Level Calibration

Min RPF	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	23 639	22 373 E3	5 4	93	-0 01
2 T	C10	24 161	23 083 E3	4 5	92	0 00
3 T	C12	23 852	22 704 E3	4 8	91	0 00
4 T	C14	24 378	23 048 E3	5 5	90	0 00
5 T	C16	25 135	23 553 E3	6 3	89	0 00
6 T	C18	24 211	22 772 E3	5 9	90	0 00
7 T	C20	24 918	23 349 E3	6 3	89	0 00
8 T	C22	25 625	23 821 E3	7 0	89	0 00
9 T	C24	25 921	24 069 E3	7 1	89	0 00
10 T	C26	26 608	24 257 E3	8 8	88	0 00
11 T	C28	26 443	24 257 E3	8 3	88	0 00
12 T	C30	26 688	24 762 E3	7 2	88	-0 01
13 T	C32	26 384	24 286 E3	8 0	87	-0 01
14 T	C34	26 926	23 912 E3	11 2	86	-0 02
15 T	C36	27 308	24 254 E3	11 2	85	-0 02
16 T	C38	26 411	23 644 E3	10 5	85	-0 03
17 T	C40	25 890	23 253 E3	10 2	84	-0 04
18 T	C42	24 252	22 252 E3	8 2	85	-0 06
19 T	Pristane	25 124	23 541 E3	6 3	90	0 00
20 T	Phytane	25 625	24 024 E3	6 2	90	0 00
21 T	TPHC (Manual Integration)	30 828	26 695 E3	13 4	88	0 96#
22 H	TPHC (Total)	26 281	23 860 E3	9 2	88	0 00
23 S	Chlorobenzene (SURR)	17 349	17 227 E3	0 7	93	-0 01
24 S	O-Terphenyl (SURR)	28 097	26 220 E3	6 7	89	0 00

Data File C:\HPCHEM\1\DATA\050118\T017679.D Vial 76
 Acq On 18 Jan 2005 7 58 am Operator PSkelton
 Sample Tstd050 Inst GC/MS Ins
 Misc TP011805 01 Multiplr 1 00
 IntFile EVENTSBP E
 Quant Time Jan 18 8 38 2005 Quant Results File TPHC002 RES

Quant Method C:\HPCHEM\1\METHODS\TPHC002.M (Chemstation Integrator)
 Title GC TPH Method
 Last Update Wed Dec 15 12 51 02 2004
 Response via Initial Calibration
 DataAcq Meth TPHC002.M

Volume Inj
 Signal Phase
 Signal Info

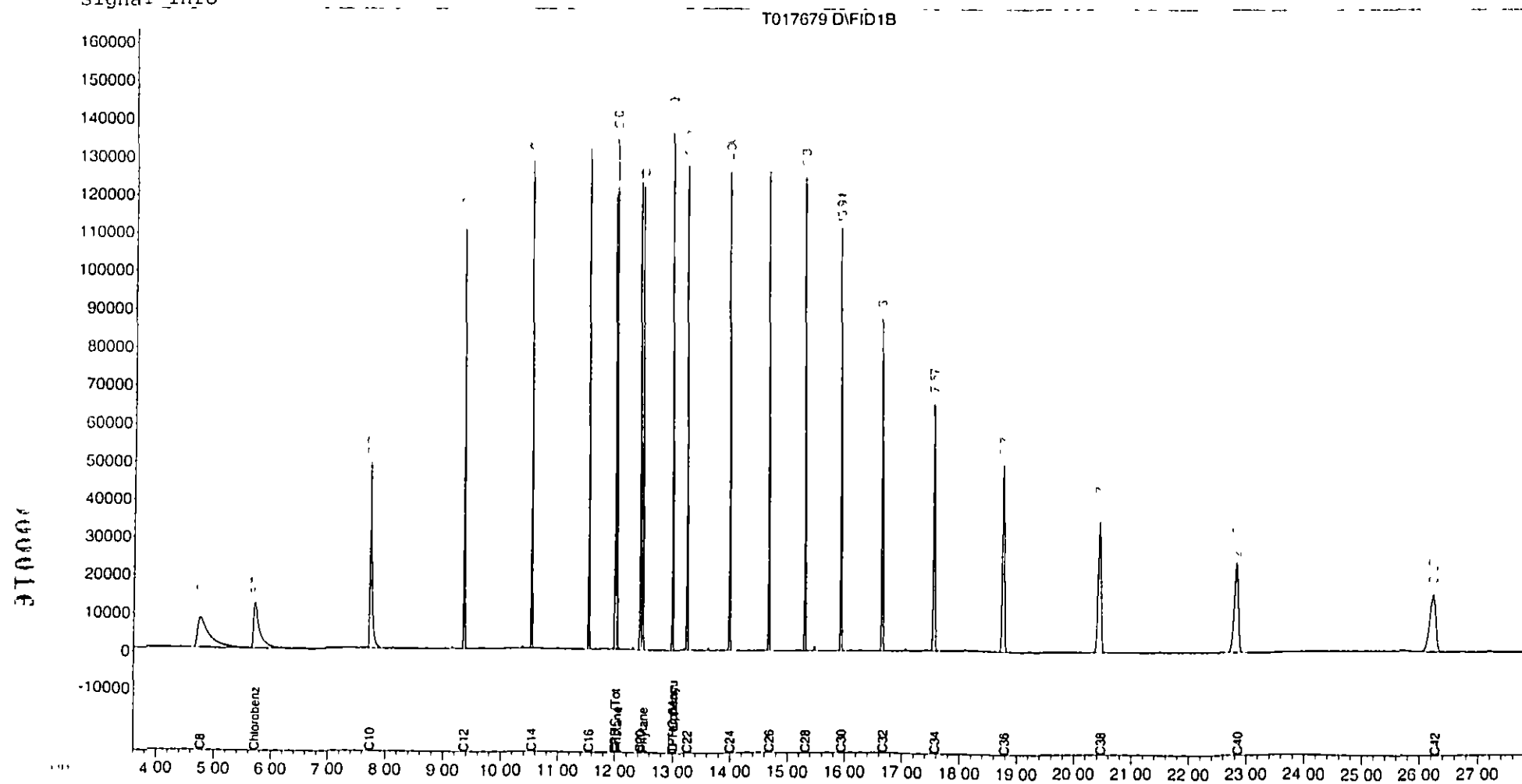
Compound	R T	Response	Conc Units

System Monitoring Compounds			
23) S Chlorobenzene (SURR)	5 71	861350	46 381 mg/L
Spiked Amount 10 000	Recovery	=	463 81%
24) S O-Terphenyl (SURR)	13 00	1311019	43 902 mg/L
Spiked Amount 10 000	Recovery	=	439 02%
Target Compounds			
1) T C8	4 76	1118657	47 323 mg/L
2) T C10	7 74	1154133	47 768 mg/L
3) T C12	9 36	1135215	47 595 mg/L
4) T C14	10 54	1152392	47 271 mg/L
5) T C16	11 54	1177672	46 854 mg/L
6) T C18	12 00	1138604	47 028 mg/L
7) T C20	12 44	1167431	46 851 mg/L
8) T C22	13 25	1191036	46 480 mg/L
9) T C24	14 00	1203437	46 427 mg/L
10) T C26	14 68	1212838	45 582 mg/L
11) T C28	15 31	1212825	45 866 mg/L
12) T C30	15 94	1238112	46 392 mg/L
13) T C32	16 67	1214276	46 023 mg/L
14) T C34	17 57	1195615	44 404 mg/L
15) T C36	18 79	1212694	44 408 mg/L
16) T C38	20 47	1182216	44 762 mg/L
17) T C40	22 86	1162662	44 908 mg/L
18) T C42	26 27	1112620	45 877 mg/L
19) T Pristane	12 03	1177068	46 851 mg/L
20) T Phytane	12 49	1201199	46 876 mg/L
21) T TPHC (Manual Integration)	13 00	26695107	865 926 mg/L m
22) H TPHC (Total)	12 00	23859561	907 857 mg/L

Data File C:\HPCHEM\1\DATA\050118\T017679.D Vial 76
Acq On 18 Jan 2005 7 58 am Operator PSkelton
Sample Tstd050 Inst GC/MS Ins
Misc TP011805 01 Multiplr 1 00
IntFile EVENTSRP.E
Quant Time Jan 18 8 38 2005 Quant Results File TPHC002.RES

Quant Method C:\HPCHEM\1\METHODS\TPHC002.M (Chemstation Integrator)
Title GC TPH Method
Last Update Wed Dec 15 12 51 02 2004
Response via Multiple Level Calibration
DataAcq Meth TPHC002.M

Volume Inj
Signal Phase
Signal Info



Evaluate Continuing Calibration Report

Data File	C \HPCHEM\1\DATA\050118\T017690 D	Vial	11
Acq On	18 Jan 2005 2 34 pm	Operator	PSkelton
Sample	Tstd050	Inst	GC/MS Ins
Misc	TP011805 01	Multiplr	1 00
IntFile	EVENTSBP E		

Method C \HPCHEM\1\METHODS\TPHC002 M (Chemstation Integrator)
 Title GC TPH Method
 Last Update Wed Dec 15 12 51 02 2004
 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		23 639	26 342 E3	-11 4	109	-0 01
2 T	C10		24 161	27 708 E3	-14 7	110	0 00
3 T	C12		23 852	27 568 E3	-15 6	110	0 00
4 T	C14		24 378	28 034 E3	-15 0	110	0 00
5 T	C16		25 135	28 720 E3	-14 3	109	0 00
6 T	C18		24 211	27 775 E3	-14 7	109	0 00
7 T	C20		24 918	28 504 E3	-14 4	109	0 00
8 T	C22		25 625	29 290 E3	-14 3	109	0 00
9 T	C24		25 921	29 690 E3	-14 5	109	0 00
10 T	C26		26 608	29 993 E3	-12 7	109	0 00
11 T	C28		26 443	29 950 E3	-13 3	108	0 00
12 T	C30		26 688	30 407 E3	-13 9	108	0 00
13 T	C32		26 384	30 039 E3	-13 9	108	0 00
14 T	C34		26 926	29 829 E3	-10 8	107	-0 01
15 T	C36		27 308	30 417 E3	-11 4	107	-0 01
16 T	C38		26 411	29 864 E3	-13 1	107	-0 02
17 T	C40		25 890	29 597 E3	-14 3	107	-0 02
18 T	C42		24 252	27 757 E3	-14 5	106	-0 03
19 T	Pristane		25 124	28 576 E3	-13 7	109	0 00
20 T	Phytane		25 625	29 240 E3	-14 1	109	0 00
21 T	TPHC (Manual Integration)		30 828	32 578 E3	-5 7	108	0 00
22 H	TPHC (Total)		26 281	29 322 E3	-11 6	108	0 00
23 S	Chlorobenzene (SURR)		17 349	20 502 E3	-18 2	111	0 00
24 S	O-Terphenyl (SURR)		28 097	32 117 E3	-14 3	109	0 00

Data File C:\HPCHEM\1\DATA\050118\T017690 D Vial 11
 Acq Or 18 Jan 2005 2 34 pm Operator PSkelton
 Sample Tstd050 Inst GC/MS Ins
 Misc TP011805 01 Multiplr 1 00
 IntFile EVENTSBP E
 Quant Time Jan 18 15 04 2005 Quant Results File TPHC002 RES

Quant Method C:\HPCHEM\1\METHODS\TPHC002 M (Chemstation Integrator)
 Title GC TPH Method
 Last Update Wed Dec 15 12 51 02 2004
 Response via Initial Calibration
 DataAcq Meth TPHC002 M

Volume Inj
 Signal Phase
 Signal Info

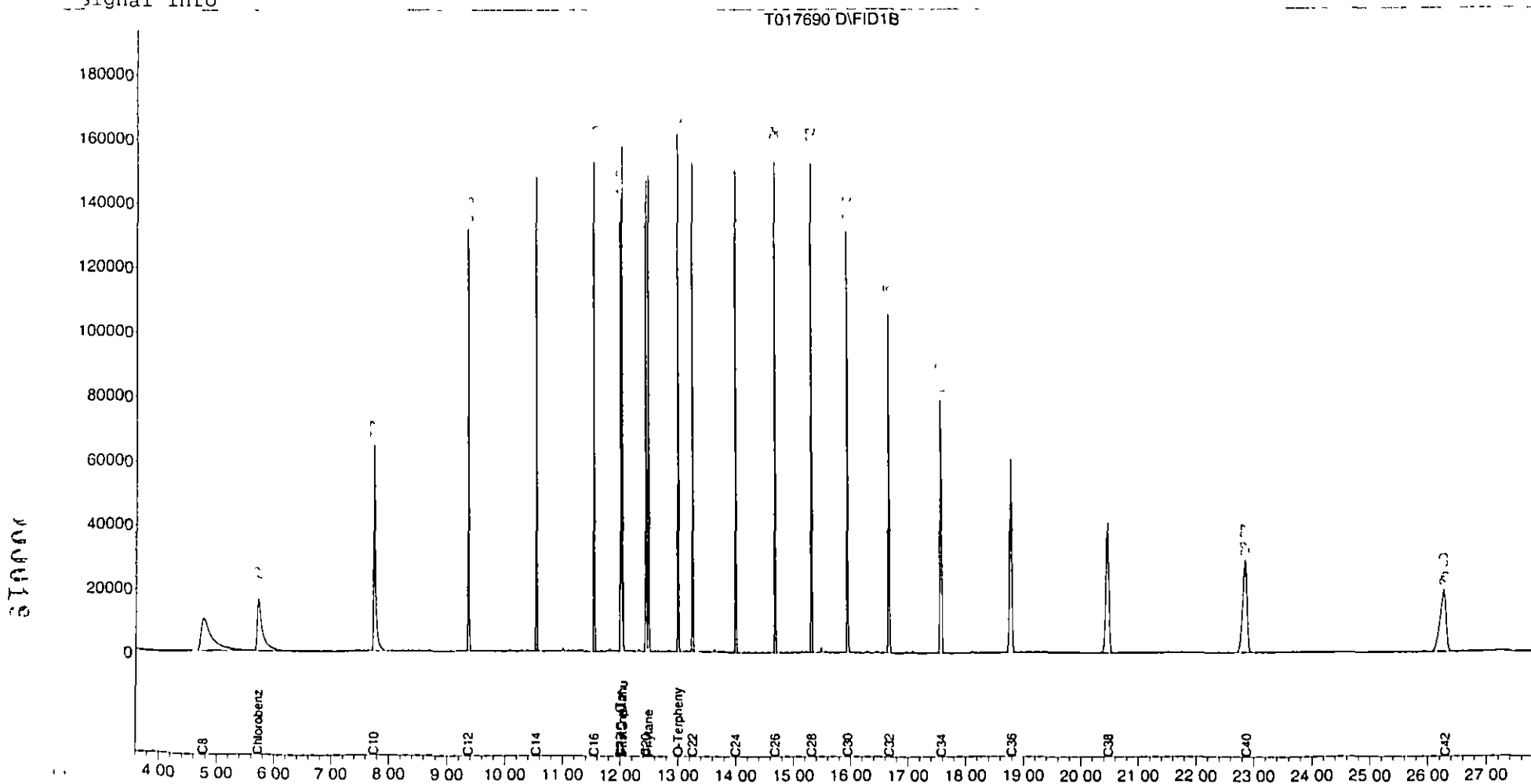
Compound	R T	Response	Conc Units

System Monitoring Compounds			
23) S Chlorobenzene (SURR)	5 72	1025092	54 900 mg/L
Spiked Amount 10 000	Recovery	=	549 00%
24) S O-Terphenyl (SURR)	13 00	1605841	53 409 mg/L
Spiked Amount 10 000	Recovery	=	534 09%
Target Compounds			
1) T C8	4 76	1317121	55 719 mg/L
2) T C10	7 74	1385398	57 340 mg/L
3) T C12	9 36	1378391	57 790 mg/L
4) T C14	10 54	1401705	57 498 mg/L
5) T C16	11 55	1435987	57 131 mg/L
6) T C18	12 01	1388752	57 360 mg/L
7) T C20	12 44	1425198	57 196 mg/L
8) T C22	13 26	1464520	57 153 mg/L
9) T C24	14 00	1484503	57 270 mg/L
10) T C26	14 68	1499657	56 361 mg/L
11) T C28	15 32	1497506	56 632 mg/L
12) T C30	15 95	1520337	56 967 mg/L
13) T C32	16 67	1501929	56 926 mg/L
14) T C34	17 58	1491449	55 391 mg/L
15) T C36	18 80	1520836	55 692 mg/L
16) T C38	20 48	1493223	56 538 mg/L
17) T C40	22 88	1479828	57 159 mg/L
18) T C42	26 30	1387865	57 226 mg/L
19) T Pristane	12 04	1428824	56 872 mg/L
20) T Phytane	12 49	1462020	57 054 mg/L
21) T TPHC (Manual Integration)	12 04	32578410	1056 766 mg/L m
22) = TPHC (Total)	12 00	29322483	1115 721 mg/L

Data File C:\HPCHEM\1\DATA\050118\T017690 D Vial 11
Acq On 18 Jan 2005 2 34 pm Operator PSkelton
Sample Tstd050 Inst GC/MS Ins
Misc TP011805 01 Multiplr 1 00
IntFile EVENT5BP E
Quant Time Jan 18 15 04 2005 Quant Results File TPHC002 RES

Quant Method C:\HPCHEM\1\METHODS\TPHC002 M (Chemstation Integrator)
Title GC TPH Method
Last Update Wed Dec 15 12 51 02 2004
Response via Multiple Level Calibration
DataAcq Meth TPHC002 M

Volume Inj
Signal Phase
Signal Info



Evaluate Continuing Calibration Report

Data File	C \HPCHEM\1\DATA\050118\T017695 D	Vial	16
Acq On	18 Jan 2005 5 35 pm	Operator	PSkelton
Sample	Tstd050	Inst	GC/MS Ins
Misc	TP011805 01	Multiplr	1 00
IntFile	EVENTSBP E		

Method C \HPCHEM\1\METHODS\TPHC002 M (Chemstation Integrator)
 Title GC TPH Method
 Last Update Wed Dec 15 12 51 02 2004
 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	23 639	23 166 E3	2 0	96	0 00
2 T	C10	24 161	24 102 E3	0 2	96	0 00
3 T	C12	23 852	23 860 E3	-0 0	96	0 00
4 T	C14	24 378	24 208 E3	0 7	95	0 00
5 T	C16	25 135	24 783 E3	1 4	94	0 00
6 T	C18	24 211	23 950 E3	1 1	94	0 00
7 T	C20	24 918	24 593 E3	1 3	94	0 00
8 T	C22	25 625	25 259 E3	1 4	94	0 00
9 T	C24	25 921	25 566 E3	1 4	94	0 00
10 T	C26	26 608	25 772 E3	3 1	93	0 00
11 T	C28	26 443	25 697 E3	2 8	93	0 00
12 T	C30	26 688	26 055 E3	2 4	93	-0 01
13 T	C32	26 384	25 704 E3	2 6	92	-0 01
14 T	C34	26 926	25 465 E3	5 4	91	-0 02
15 T	C36	27 308	25 906 E3	5 1	91	-0 02
16 T	C38	26 411	25 449 E3	3 6	91	-0 03
17 T	C40	25 890	25 296 E3	2 3	92	-0 04
18 T	C42	24 252	23 832 E3	1 7	91	-0 07
19 T	Pristane	25 124	24 677 E3	1 8	94	0 00
20 T	Phytane	25 625	25 235 E3	1 5	94	0 00
21 T	TPHC (Manual Integration)	30 828	28 337 E3	8 1	94	0 96#
22 H	TPHC (Total)	26 281	25 235 E3	4 0	93	0 00
23 S	Chlorobenzene (SURR)	17 349	17 796 E3	-2 6	96	0 00
24 S	O-Terphenyl (SURR)	28 097	27 613 E3	1 7	94	0 00

Data File C \HPCHEM\1\DATA\050118\T017695 D Vial 16
 Acq On 18 Jan 2005 5 35 pm Operator PSkelton
 Sample Tstd050 Inst GC/MS Ins
 Misc TP011805 01 Multiplr 1 00
 IntFile EVENTSBP E
 Quant Time Jan 19 8 26 2005 Quant Results File TPHC002 RES

Quant Method C \HPCHEM\1\METHODS\TPHC002 M (Chemstation Integrator)
 Title GC TPH Method
 Last Update Wed Dec 15 12 51 02 2004
 Response via Initial Calibration
 DataAcq Meth TPHC002 M

Volume Inj
 Signal Phase
 Signal Info

Compound	R T	Response	Conc Units

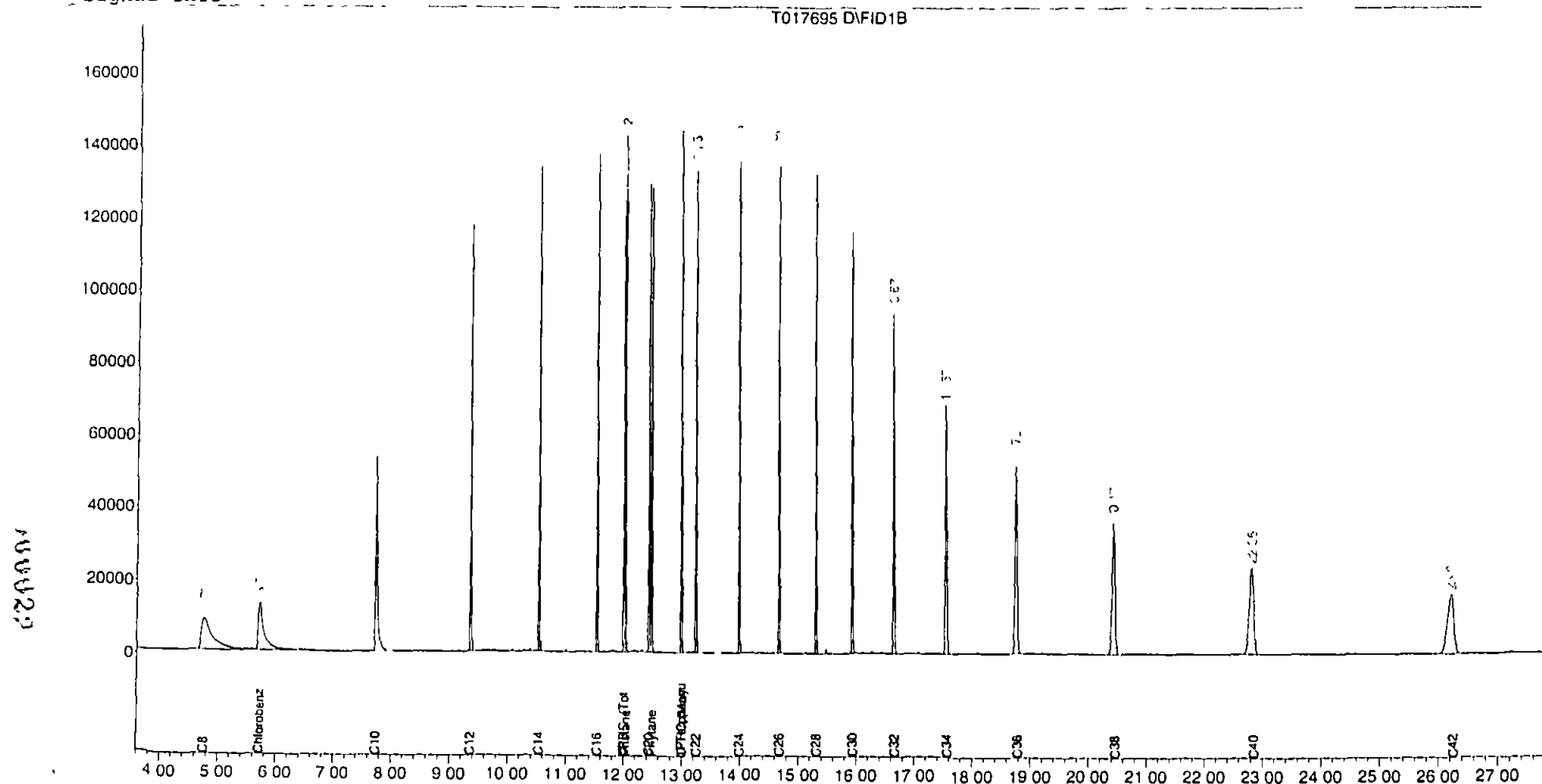
System Monitoring Compounds			
23) S Chlorobenzene (SURR)	5 72	889801	47 861 mg/L
Spiked Amount 10 000	Recovery	=	478 61%
24) S O-Terphenyl (SURR)	13 00	1380641	46 147 mg/L
Spiked Amount 10 000	Recovery	=	461 47%
Target Compounds			
1) T C8	4 76	1158292	49 000 mg/L
2) T C10	7 74	1205125	49 879 mg/L
3) T C12	9 36	1192982	50 017 mg/L
4) T C14	10 54	1210395	49 651 mg/L
5) T C16	11 54	1239138	49 299 mg/L
6) T C18	12 00	1197521	49 462 mg/L
7) T C20	12 44	1229643	49 348 mg/L
8) T C22	13 25	1262974	49 287 mg/L
9) T C24	14 00	1278303	49 315 mg/L
10) T C26	14 68	1288588	48 429 mg/L
11) T C28	15 31	1284826	48 589 mg/L
12) T C30	15 94	1302738	48 813 mg/L
13) T C32	16 67	1285195	48 711 mg/L
14) T C34	17 57	1273270	47 288 mg/L
15) T C36	18 79	1295314	47 434 mg/L
16) T C38	20 47	1272436	48 178 mg/L
17) T C40	22 86	1264801	48 854 mg/L
18) T C42	26 26	1191623	49 135 mg/L
19) T Pristane	12 03	1233857	49 112 mg/L
20) T Phytane	12 49	1261757	49 239 mg/L
21) T TP+C (Manual Integration)	13 00	28337386	919 197 mg/L m
22) H TP+C (Total)	12 00	25235057	960 194 mg/L

Quantitation Report (QT Reviewed)

Data File C:\HPCHEM\1\DATA\050118\T017695 D Vial 16
 Acq On 18 Jan 2005 5 35 pm Operator PSkelton
 Sample Tstd050 Inst GC/MS Ins
 Misc TP011805 01 Multiplr 1 00
 IntFile EVENTSBP F
 Quant Time Jan 19 8 26 2005 Quant Results File TPHC002 RES

Quant Method C:\HPCHEM\1\METHODS\TPHC002 M (Chemstation Integrator)
 Title GC TPH Method
 Last Update Wed Dec 15 12 51 02 2004
 Response via Multiple Level Calibration
 DataAcq Meth TPHC002 M

Volume Inj
 Signal Phase
 Signal Info



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

Client	U S Army	Project #	50020
	DPW SELFM PW-EV	Location	Bldg 1076
	Bldg 173	UST Reg #	
	Ft Monmouth, NJ 07703		
Analysis	OQA-QAM-025	Date Received	13 Jan-05
Matrix	Soil	Date Extracted	14 Jan-05
Inst ID	GC TPHC INST #1	Extraction Method	Shake
Column Type	RTX-5, 0.32mm ID, 30M	Analysis Complete	19-Jan-05
Injection Volume	1uL	Analyst	B Patel

Sample	Spike Amount Added (ppm)	Sample Amount (ppm)	Matrix Spike Amount (ppm)	Percent Recovery	QC Limits %
5002001MS	1000	5.42	883.43	87.80	55 - 129
5002001MSD	1000	5.42	1037.10	103.17	55 - 129

RPD	16.09	20.00
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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 #	50020
	DPW SELFM-PW EV	Location	Bldg 1076
	Bldg 173	UST Reg #	
	Ft Monmouth, NJ 07703		
Analysis	OQA-QAM-025	Date Received	13-Jan-05
Matrix	Soil	Date Extracted	14-Jan-05
Inst ID	GC TPHC INST #1	Extraction Method	Shake
Column Type	RTX-5, 0.32mm ID, 30M	Analysis Complete	19-Jan-05
Injection Volume	1uL	Analyst	B Patel

Sample	Date Extracted	Spike Amount Added (ppm)	Matrix Spike Amount (ppm)	Percent Recovery	QC Limits %
LCS-011405-01	14 Jan-05	1000	1037.25	103.73	55 - 129

Data File C \HPCHEM\1\DATA\050118\T017681 D Vial 2
 Acq On 18 Jan 2005 9 10 am Operator PSkelton
 Sample MB-011405-01 Inst GC/MS Ins
 Misc Soil Multiplr 1 00
 IntFile EVENTSBP E
 Quant Time Jan 18 9 43 2005 Quant Results File TPHC002 RES

Quant Method C \HPCHEM\1\METHODS\TPHC002 M (Chemstation Integrator)
 Title GC TPH Method
 Last Update Wed Dec 15 12 51 02 2004
 Response via Initial Calibration
 DataAcq Meth TPHC002 M

Volume Inj
 Signal Phase
 Signal Info

Compound	R T	Response	Conc Units

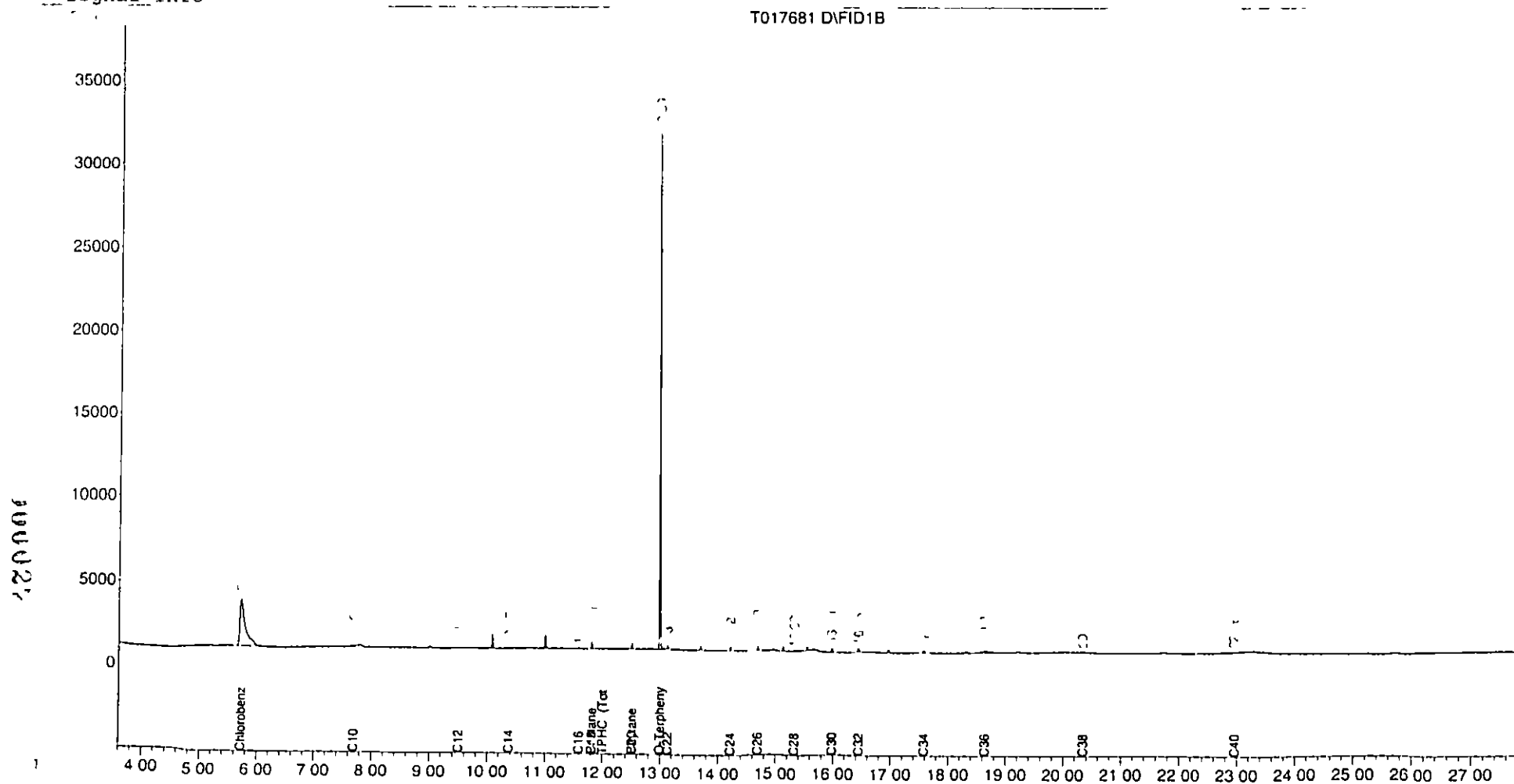
System Monitoring Compounds			
23) S Cnlorobenzene (SURR)	5 72	179327	10 899 mg/L
Spiked Amount 10 000	Recovery	=	108 99%
24) S O-Terphenyl (SURR)	12 99	287292	10 891 mg/L
Spiked Amount 10 000	Recovery	=	108 91%
Target Compounds			
1) T C8	0 00	0	N D mg/L
2) T C10	7 69	3803	0 157 mg/L
3) T C12	9 50	661	0 028 mg/L
4) T C14	10 38	160	0 007 mg/L
5) T C16	11 59	398	0 016 mg/L
6) T C18	11 81	4018	0 166 mg/L
7) T C20	12 51	3182	0 128 mg/L
8) T C22	13 13	2866	0 112 mg/L
9) T C24	14 22	2553	0 098 mg/L
10) T C26	14 69	2130	0 080 mg/L
11) T C28	15 33	712	0 027 mg/L
12) T C30	15 98	4148	0 155 mg/L
13) T C32	16 45	3712	0 141 mg/L
14) T C34	17 58	3531	0 131 mg/L
15) T C36	18 64	13945	0 511 mg/L
16) T C38	20 34	2771	0 105 mg/L
17) T C40	22 96	11438	0 442 mg/L
18) T C42	0 00	0	N D mg/L
19) T Pristane	11 81	4018	0 160 mg/L
20) T Phytane	12 51	3182	0 124 mg/L
21) T TPHC (Manual Integration)	0 00	0	N D mg/L d
22) H TPHC (Total)	12 00	183775	6 993 mg/L

Data File C:\HPCHEM\1\DATA\050118\T017681.D
Acq On 18 Jan 2005 9 10 am
Sample MB-011405-01
Misc Soil
IntFile EVENT5BP.E
Quant Time Jan 18 9 43 2005 Quant Results File TPHC002.RES

Vial 2
Operator PSkelton
Inst GC/MS Ins
Multiplr 1.00

Quant Method C:\HPCHEM\1\METHODS\TPHC002.M (Chemstation Integrator)
Title GC TPH Method
Last Update Wed Dec 15 12 51 02 2004
Response via Multiple Level Calibration
DataAcq Meth TPHC002.M

Volume Inj
Signal Phase
Signal Info



Data File C:\HPCHEM\1\DATA\050118\T017682.D Vial 3
 Acq On 18 Jan 2005 9 46 am Operator PSkelton
 Sample 5002001s Inst GC/MS Ins
 Misc Multiplic 1 00
 IntFile EVENTSBP.E
 Quant Time Jan 18 13 17 2005 Quant Results File TPHC002.RES

Quant Method C:\HPCHEM\1\METHODS\TPHC002.M (Chemstation Integrator)
 Title GC TPH Method
 Last Update Wed Dec 15 12 51 02 2004
 Response via Initial Calibration
 DataAcq Meth TPHC002.M

Volume Inj
 Signal Phase
 Signal Info

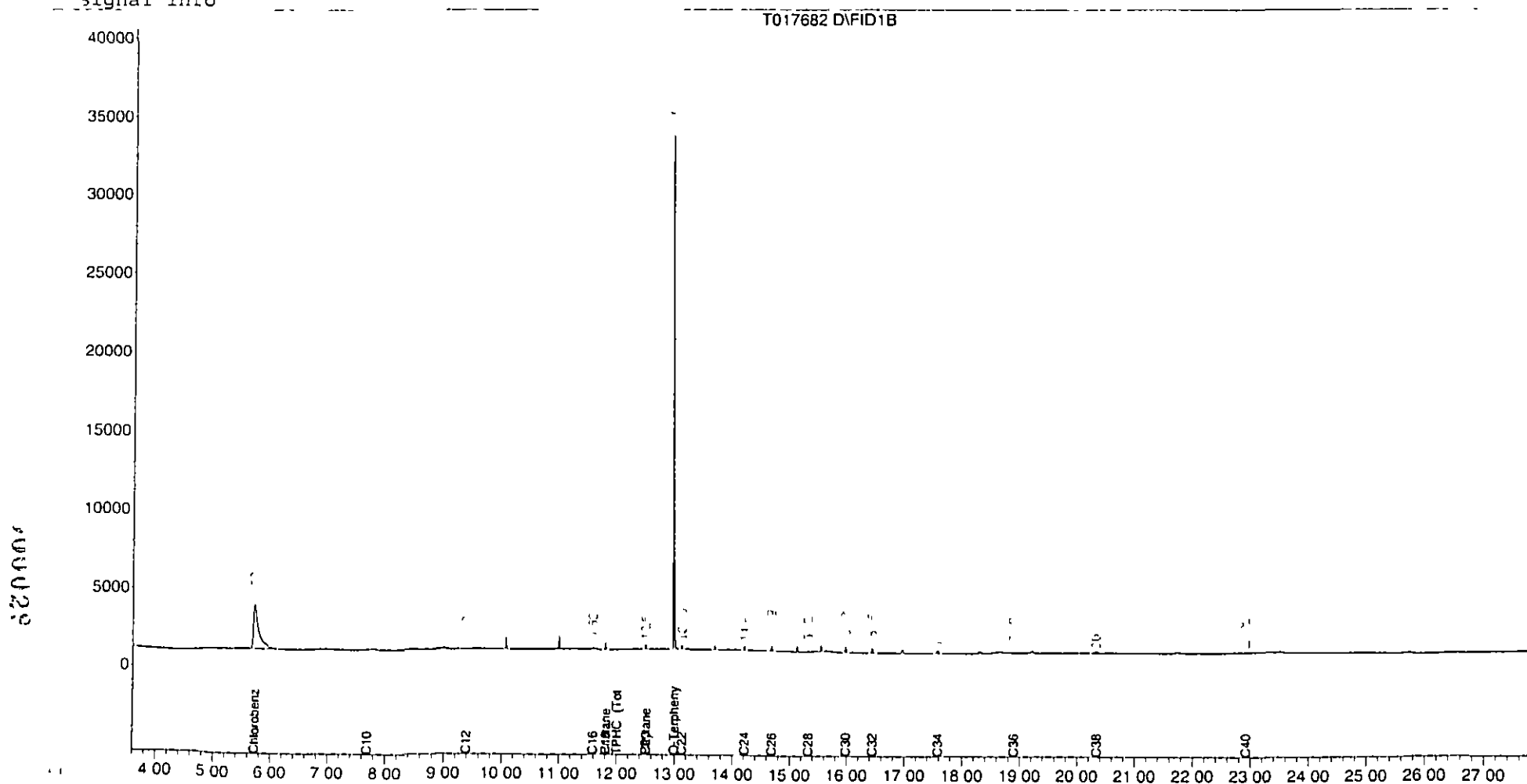
Compound	R T	Response	Conc Units
System Monitoring Compounds			
23) S Chlorobenzene (SURR)	5 72	173302	10 585 mg/L
Spiked Amount 10 000	Recovery	=	105 85%
24) S O-Terphenyl (SURR)	12 99	301515	11 350 mg/L
Spiked Amount 10 000	Recovery	=	113 50%
Target Compounds			
1) T C8	0 00	0	N D mg/L
2) T C10	7 69	3636	0 150 mg/L
3) T C12	9 39	506	0 021 mg/L
4) T C14	0 00	0	N D mg/L
5) T C16	11 59	416	0 017 mg/L
6) T C18	11 81	4433	0 183 mg/L
7) T C20	12 51	3342	0 134 mg/L
8) T C22	13 13	3002	0 117 mg/L
9) T C24	14 21	2913	0 112 mg/L
10) T C26	14 69	3975	0 149 mg/L
11) T C28	15 33	329	0 012 mg/L
12) T C30	15 98	4929	0 185 mg/L
13) T C32	16 45	4901	0 186 mg/L
14) T C34	17 58	4405	0 164 mg/L
15) T C36	18 90	200	0 007 mg/L
16) T C38	20 34	3554	0 135 mg/L
17) T C40	22 92	7609	0 294 mg/L
18) T C42	0 00	0	N D mg/L
19) T Pristane	11 81	4433	0 176 mg/L
20) T Phytane	12 51	3342	0 130 mg/L
21) T TPHC (Manual Integration)	0 00	0	N D mg/L d
22) H TPHC (Total)	12 00	142424	5 419 mg/L

Data File C:\HPCHEM\1\DATA\050118\T017682.D
Acq On 18 Jan 2005 9 46 am
Sample 5002001s
Misc
IntFile EVENTSBP.E
Quant Time Jan 18 13 17 2005 Quant Results File TPHC002.RES

Vial 3
Operator PSkelton
Inst GC/MS Ins
Multiplr 1 00

Quant Method C:\HPCHEM\1\METHODS\TPHC002.M (Chemstation Integrator)
Title GC TPH Method
Last Update Wed Dec 15 12 51 02 2004
Response via Multiple Level Calibration
DataAcq Meth TPHC002.M

Volume Inj
Signal Phase
Signal Info



Data File C \HPCHEM\1\DATA\050118\T017685 D Vial 6
 Acq On 18 Jan 2005 11 34 am Operator PSkelton
 Sample 5002002s Inst GC/MS Ins
 Misc Multiplr 1 00
 IntFile EVENTSBP E
 Quant Time Jan 18 13 19 2005 Quant Results File TPHC002 RES

Quant Method C \HPCHEM\1\METHODS\TPHC002 M (Chemstation Integrator)
 Title GC TPH Method
 Last Update Wed Dec 15 12 51 02 2004
 Response via Initial Calibration
 DataAcq Meth TPHC002 M

Volume Inj
 Signal Phase
 Signal Info

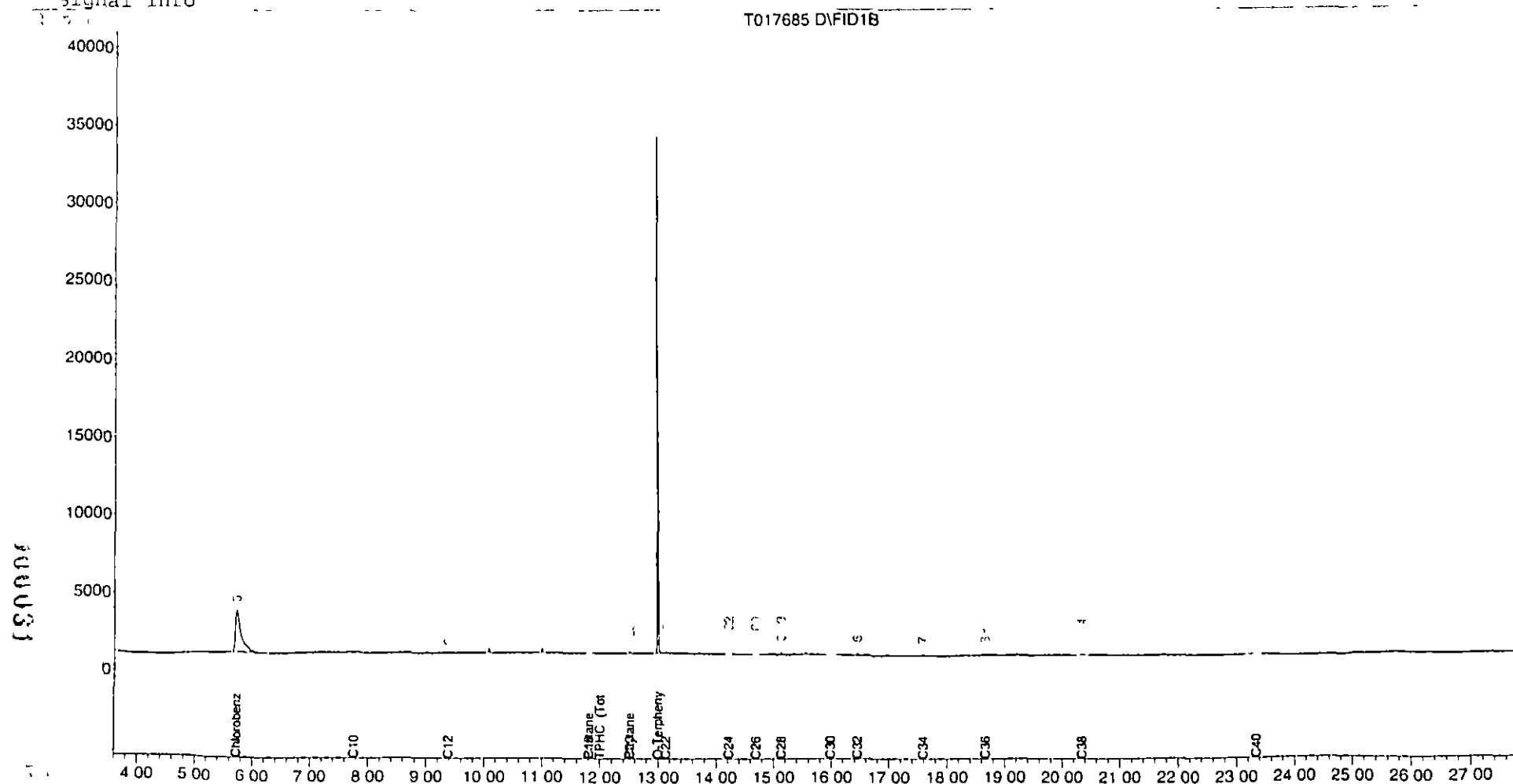
Compound	R T	Response	Conc Units

System Monitoring Compounds			
23) S Chlorobenzene (SURR)	5 72	184559	11 171 mg/L m
Spiked Amount 10 000	Recovery	=	111 71%
24) S O-Terphenyl (SURR)	13 00	311638	11 676 mg/L
Spiked Amount 10 000	Recovery	=	116 76%
Target Compounds			
1) T C8	0 00	0	N D mg/L
2) T C10	7 76	2873	0 119 mg/L
3) T C12	9 38	716	0 030 mg/L
4) T C14	0 00	0	N D mg/L
5) T C16	11 81f	1796	0 071 mg/L
6) T C18	11 81	1796	0 074 mg/L
7) T C20	12 51	1327	0 053 mg/L
8) T C22	13 13	1324	0 052 mg/L
9) T C24	14 22	1187	0 046 mg/L
10) T C26	14 69	1388	0 052 mg/L
11) T C28	15 13	1612	0 061 mg/L
12) T C30	15 99	1952	0 073 mg/L
13) T C32	16 45	1859	0 070 mg/L
14) T C34	17 59	1614	0 060 mg/L
15) T C36	18 67	5779	0 212 mg/L
16) T C38	20 35	1405	0 053 mg/L
17) T C40	23 34f	5137	0 198 mg/L
18) T C42	0 00	0	N D mg/L
19) T Pristane	11 81	1796	0 071 mg/L
20) T Phytane	12 51	1327	0 052 mg/L
21) T TPHC (Manual Integration)	0 00	0	N D mg/L d
22) H TPHC (Total)	12 00	85375	3 249 mg/L

Data File C:\HPCHEM\1\DATA\050118\T017685.D Vial 6
Acq On 18 Jan 2005 11 34 am Operator PSkelton
Sample 5002002s Inst GC/MS Ins
Misc Multiplr 1 00
IntFile EVENTSBP.E
Quant Time Jan 18 13 19 2005 Quant Results File TPHC002.RES

Quant Method C:\HPCHEM\1\METHODS\TPHC002.M (Chemstation Integrator)
Title GC TPH Method
Last Update Wed Dec 15 12 51 02 2004
Response via Multiple Level Calibration
DataAcq Meth TPHC002.M

Volume Inj
Signal Phase
Signal Info



Data File C \HPCHEM\1\DATA\050118\T017686 D Vial 7
 Acq On 18 Jan 2005 12 10 pm Operator PSkelton
 Sample 5002003s Inst GC/MS Ins
 Misc Multiplr 1 00
 IntFile EVENTSBP E
 Quant Time Jan 18 13 19 2005 Quant Results File TPHC002 RES

Quant Method C \HPCHEM\1\METHODS\TPHC002 M (Chemstation Integrator)
 Title GC TPH Method
 Last Update Wed Dec 15 12 51 02 2004
 Response via Initial Calibration
 DataAcq Meth TPHC002 M

Volume Inj
 Signal Phase
 Signal Info

Compound	R T	Response	Conc Units

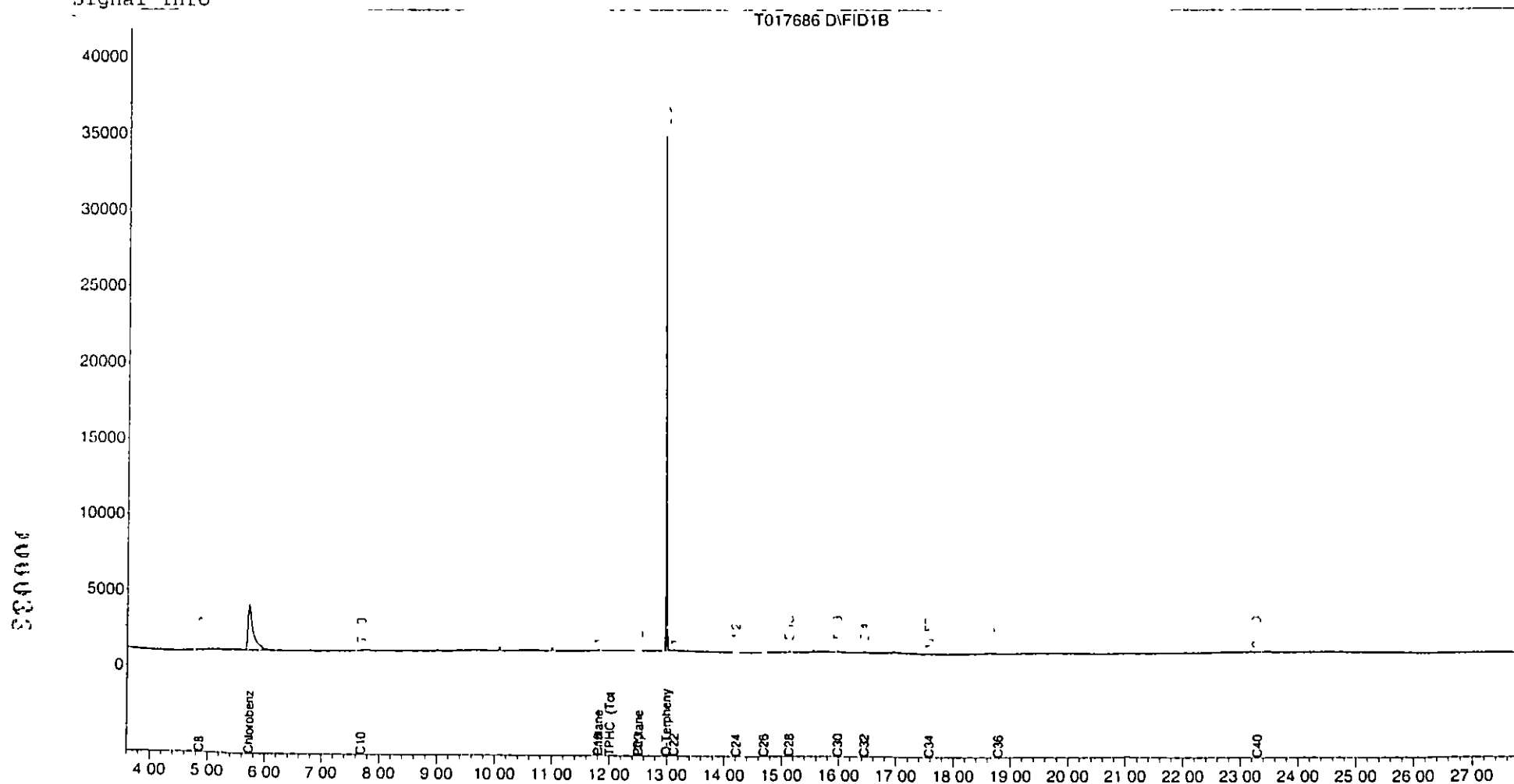
System Monitoring Compounds			
23) S Chlorobenzene (SURR)	5 72	190728	11 492 mg/L
Spiked Amount 10 000	Recovery	=	114 92%
24) S O-Terphenyl (SURR)	13 00	310953	11 654 mg/L
Spiked Amount 10 000	Recovery	=	116 54%
Target Compounds			
1) T C8	4 85	398	0 017 mg/L
2) T C10	7 69	2962	0 123 mg/L
3) T C12	0 00	0	N D mg/L
4) T C14	0 00	0	N D mg/L
5) T C16	11 81f	1382	0 055 mg/L
6) T C18	11 81	1382	0 057 mg/L
7) T C20	12 51	1021	0 041 mg/L
8) T C22	13 13	979	0 038 mg/L
9) T C24	14 22	852	0 033 mg/L
10) T C26	14 69	1041	0 039 mg/L
11) T C28	15 13	1035	0 039 mg/L
12) T C30	15 98	1255	0 047 mg/L
13) T C32	16 45	1349	0 051 mg/L
14) T C34	17 59	1119	0 042 mg/L
15) T C36	18 79	353	0 013 mg/L
16) T C38	0 00	0	N D mg/L
17) T C40	23 30f	2441	0 094 mg/L
18) T C42	0 00	0	N D mg/L
19) T Pristane	11 81	1382	0 055 mg/L
20) T Phytane	12 51	1021	0 040 mg/L
21) T TPHC (Manual Integration)	0 00	0	N D mg/L d
22) - TPHC (Total)	12 00	41017	1 561 mg/L

Data File C:\HPCHEM\1\DATA\050118\T017686.D
Acq On 18 Jan 2005 12 10 pm
Sample 50020035
Misc
Intfile EVENTSBP.E
Quant Time Jan 18 13 19 2005 Quant Results File TPHC002.RES

Vial 7
Operator PSkelton
Inst GC/MS Ins
Multiplr 1 00

Quant Method C:\HPCHEM\1\METHODS\TPHC002.M (Chemstation Integrator)
Title GC TPH Method
Last Update Wed Dec 15 12 51 02 2004
Response via Multiple Level Calibration
DataAcq Meth TPHC002.M

Volume Inj
Signal Phase
Signal Info



Data File C:\HPCHEM\1\DATA\050118\T017687.D Vial 8
 Acq On 18 Jan 2005 12 46 pm Operator PSkelton
 Sample 5002004s Inst GC/MS Ins
 Misc Multiplr 1 00
 IntFile EVENTSBP.E
 Quant Time Jan 18 13 20 2005 Quant Results File TPHC002.RES

Quant Method C:\HPCHEM\1\METHODS\TPHC002.M (Chemstation Integrator)
 Title GC TPH Method
 Last Update Wed Dec 15 12 51 02 2004
 Response via Initial Calibration
 DataAcq Meth TPHC002.M

Volume Inj
 Signal Phase
 Signal Info

Compound	R T	Response	Conc Units

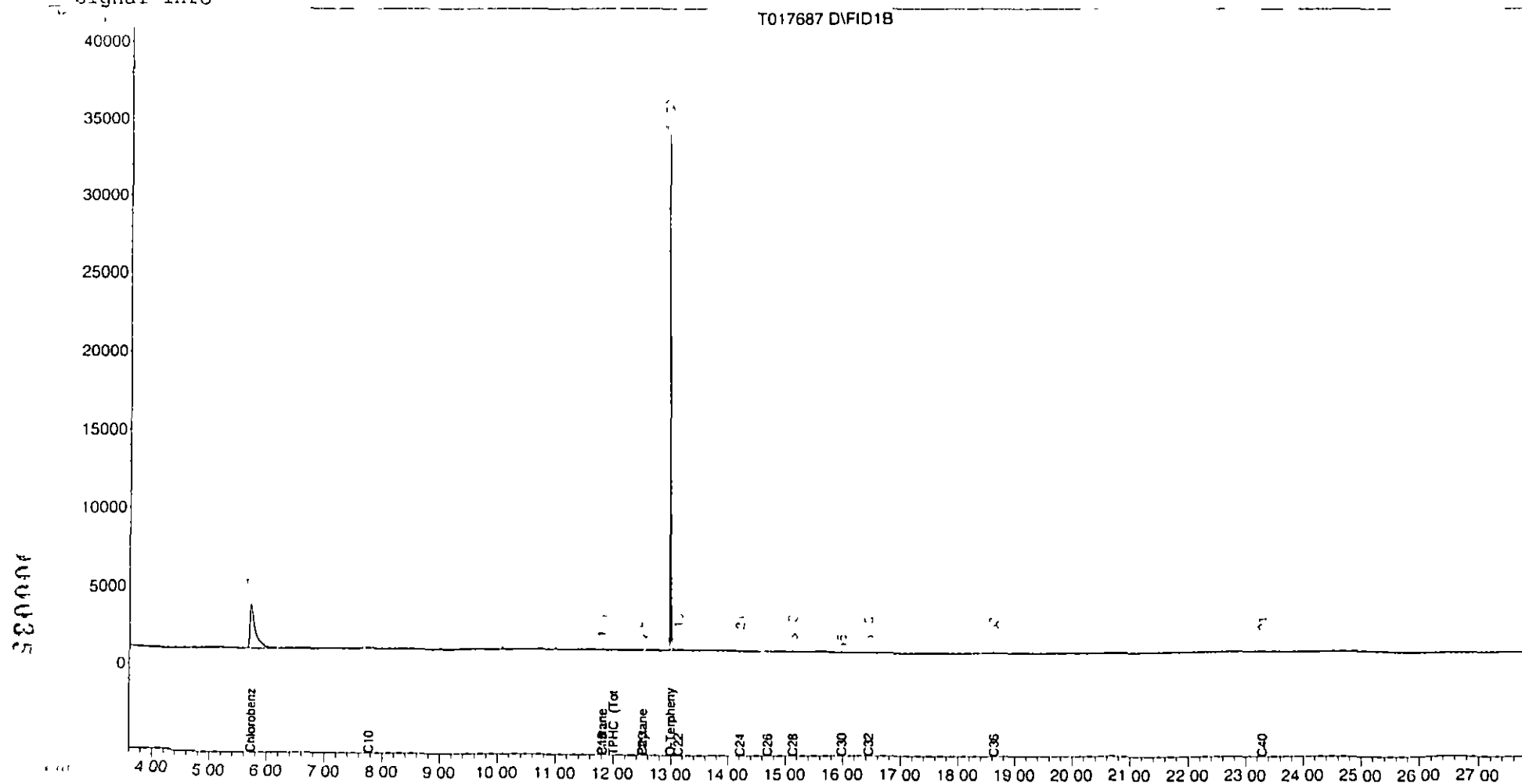
System Monitoring Compounds			
23) S Chlorobenzene (SURR)	5 72	180109	10 940 mg/L
Spiked Amount 10 000	Recovery	=	109 40%
24) S O-Terphenyl (SURR)	12 99	301328	11 344 mg/L
Spiked Amount 10 000	Recovery	=	113 44%
Target Compounds			
1) T C8	0 00	0	N D mg/L
2) T C10	7 77	2531	0 105 mg/L
3) T C12	0 00	0	N D mg/L
4) T C14	0 00	0	N D mg/L
5) T C16	11 81f	664	0 026 mg/L
6) T C18	11 81	664	0 027 mg/L
7) T C20	12 51	686	0 028 mg/L
8) T C22	13 13	421	0 016 mg/L
9) T C24	14 22	350	0 014 mg/L
10) T C26	14 69	1584	0 060 mg/L
11) T C28	15 13	472	0 018 mg/L
12) T C30	15 98	592	0 022 mg/L
13) T C32	16 45	615	0 023 mg/L
14) T C34	0 00	0	N D mg/L
15) T C36	18 63	3352	0 123 mg/L
16) T C38	0 00	0	N D mg/L
17) T C40	23 29f	5396	0 208 mg/L
18) T C42	0 00	0	N D mg/L
19) T Pristane	11 81	664	0 026 mg/L
20) T Phytane	12 51	686	0 027 mg/L
21) T TPHC (Manual Integration)	0 00	0	N D mg/L d
22) H TPHC (Total)	12 00	31204	1 187 mg/L

Data File C:\HPCHEM\1\DATA\050118\T017687.D
Acq On 18 Jan 2005 12 46 pm
Sample 5002004s
Misc
IntFile EVENTS.BP.E
Quant Time Jan 18 13 20 2005 Quant Results File TPHC002.RES

Vial 8
Operator PSkelton
Inst GC/MS Ins
Multiplier 1.00

Quant Method C:\HPCHEM\1\METHODS\TPHC002.M (Chemstation Integrator)
Title GC TPH Method
Last Update Wed Dec 15 12 51 02 2004
Response via Multiple Level Calibration
DataAcq Meth TPHC002.M

Volume Inj
Signal Phase
Signal Info



Data File C:\HPCHEM\1\DATA\050118\T017688.D Vial 9
 Acq Or 18 Jan 2005 1 23 pm Operator PSkelton
 Sample 5002005s Inst GC/MS Ins
 Misc Multiplr 1 00
 IntFile EVENTSBP.E
 Quant Time Jan 18 13 51 2005 Quant Results File TPHC002 RES

Quant Method C:\HPCHEM\1\METHODS\TPHC002.M (Chemstation Integrator)
 Title GC TPH Method
 Last Update Wed Dec 15 12 51 02 2004
 Response via Initial Calibration
 DataAcq Meth TPHC002.M

Volume Inj
 Signal Phase
 Signal Info

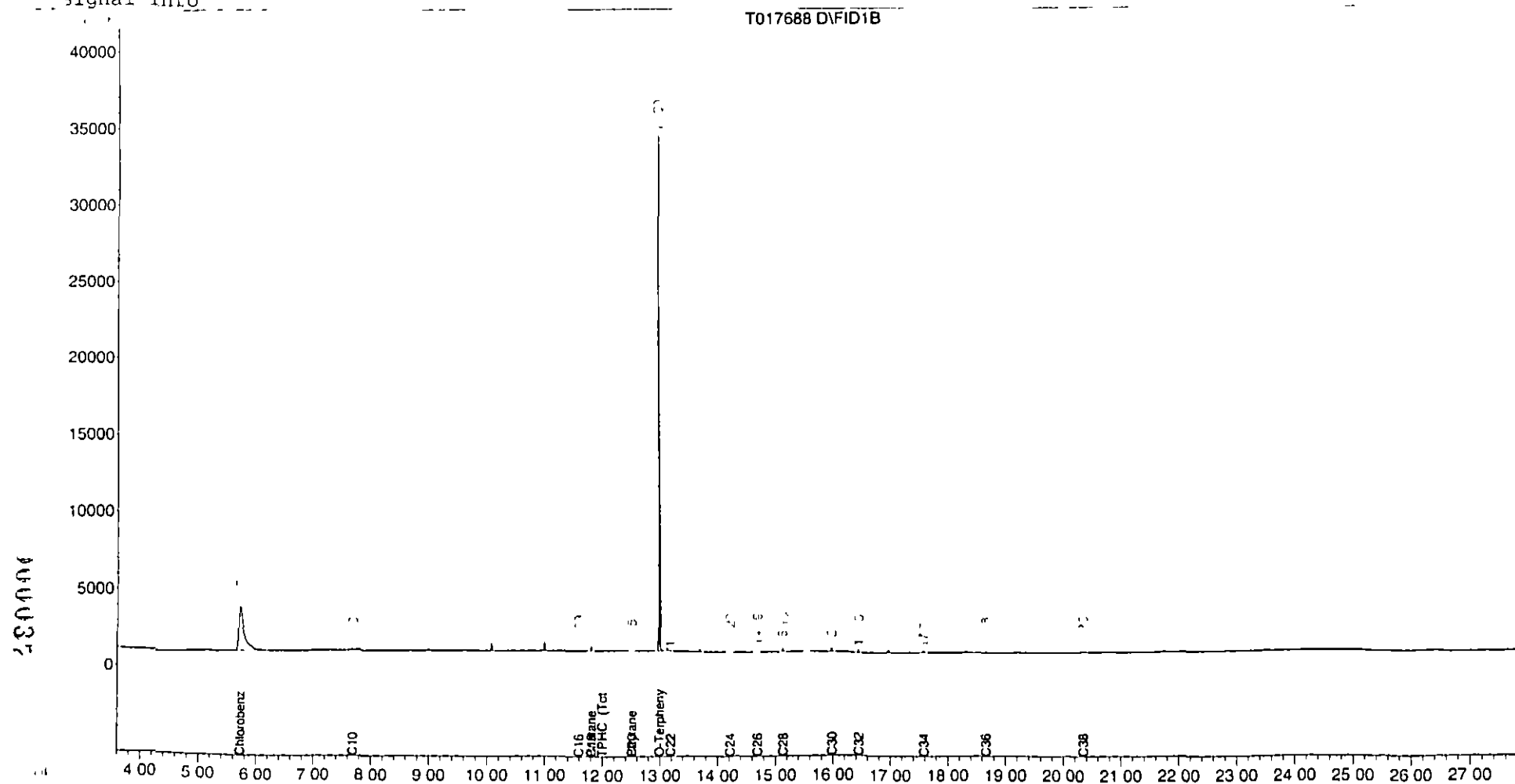
Compound	R T	Response	Conc Units

System Monitoring Compounds			
23) S Chlorobenzene (SURR)	5 72	180071	10 938 mg/L
Spiked Amount 10 000	Recovery	=	109 38%
24) S O-Terphenyl (SURR)	13 00	312139	11 693 mg/L
Spiked Amount 10 000	Recovery	=	116 93%
Target Compounds			
1) T C8	0 00	0	N D mg/L
2) T C10	7 69	1188	0 049 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 59	343	0 014 mg/L
6) T C18	11 81	3297	0 136 mg/L
7) T C20	12 51	2463	0 099 mg/L
8) T C22	13 19	414	0 016 mg/L
9) T C24	14 22	1937	0 075 mg/L
10) T C26	14 69	2386	0 090 mg/L
11) T C28	15 13	2624	0 099 mg/L
12) T C30	15 99	3152	0 118 mg/L
13) T C32	16 45	3021	0 114 mg/L
14) T C34	17 59	2712	0 101 mg/L
15) T C36	18 66	1270	0 046 mg/L
16) T C38	20 35	2191	0 083 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	3297	0 131 mg/L
20) T Phytane	12 51	2463	0 096 mg/L
21) T TP+C (Manual Integration)	0 00	0	N D mg/L d
22) H TPHC (Total)	12 00	57636	2 193 mg/L

Data File C:\HPCHEM\1\DATA\050118\T017688.D Vial 9
Acq On 18 Jan 2005 1 23 pm Operator Pskelton
Sample 5002005s Inst GC/MS Ins
Misc Multiplr 1 00
IntFile EVENTSBP E
Quant Time Jan 18 13 51 2005 Quant Results File TPHC002 RES

Quant Method C:\HPCHEM\1\METHODS\TPHC002.M (Chemstation Integrator)
Title GC TPH Method
Last Update Wed Dec 15 12 51 02 2004
Response via Multiple Level Calibration
DataAcq Meth TPHC002.M

Volume Inj
Signal Phase
Signal Info



Data File C:\HPCHEM\1\DATA\050118\T017689 D Vial 10
 Acq On 18 Jan 2005 1 59 pm Operator PSkelton
 Sample 5002006s Inst GC/MS Ins
 Misc Multiplr 1 00
 IntFile EVENTSBP E
 Quant Time Jan 18 14 26 2005 Quant Results File TPHC002 RES

Quant Method C:\HPCHEM\1\METHODS\TPHC002 M (Chemstation Integrator)
 Title GC TP4 Method
 Last Update Wed Dec 15 12 51 02 2004
 Response via Initial Calibration
 DataAcq Meth TPHC002 M

Volume Inj
 Signal Phase
 Signal Info

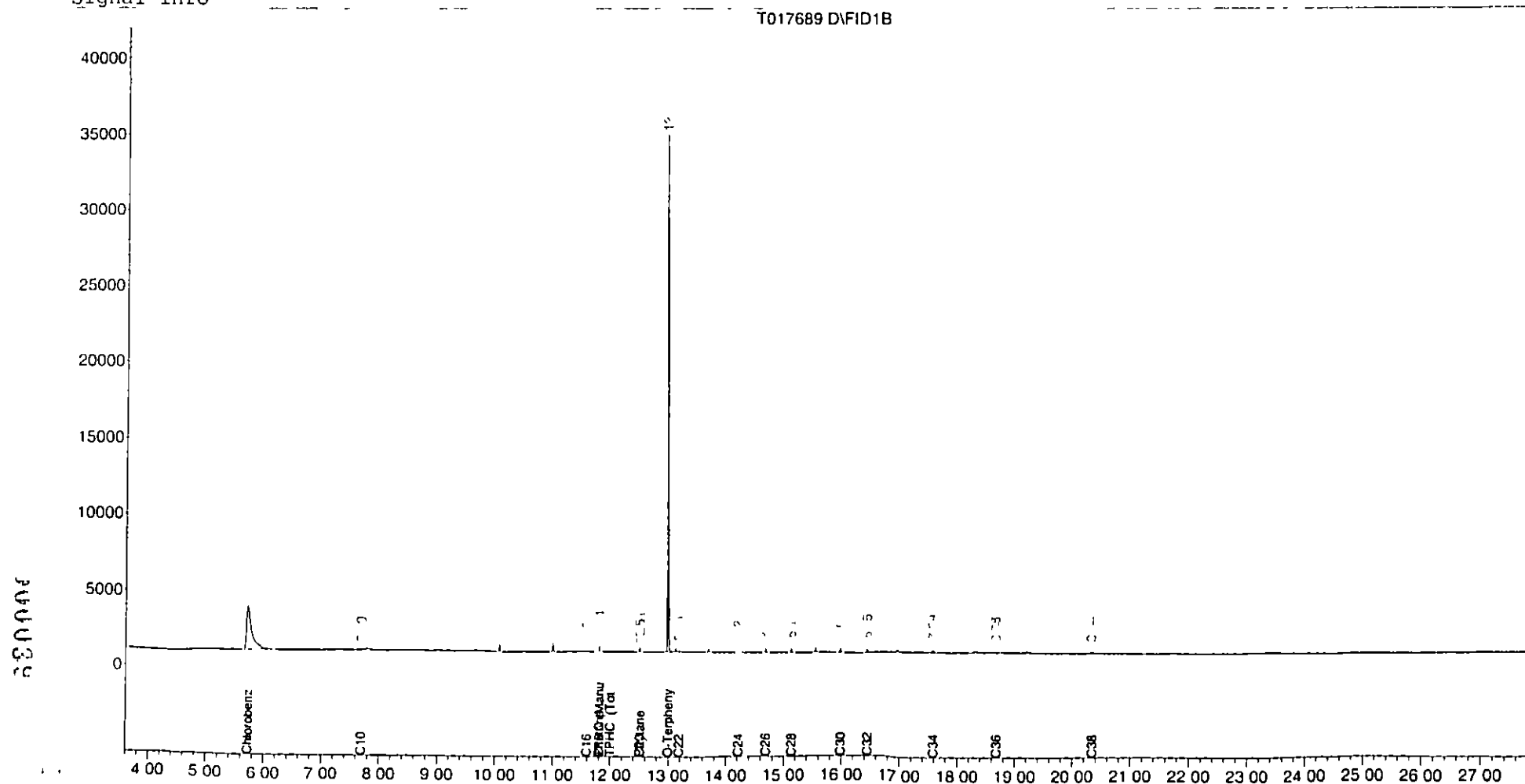
Compound	R T	Response	Conc Units

System Monitoring Compounds			
23) S Chlorobenzene (SURR)	5 72	179921	10 930 mg/L
Spiked Amount 10 000	Recovery	=	109 30%
24) S O-Terphenyl (SURR)	12 99	313153	11 725 mg/L
Spiked Amount 10 000	Recovery	=	117 25%
Target Compounds			
1) T C8	0 00	0	N D mg/L
2) T C10	7 69	3170	0 131 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 59	431	0 017 mg/L
6) T C18	11 81	3512	0 145 mg/L
7) T C20	12 51	2814	0 113 mg/L
8) T C22	13 19	329	0 013 mg/L
9) T C24	14 22	2244	0 087 mg/L
10) T C26	14 69	2674	0 100 mg/L
11) T C28	15 13	2976	0 113 mg/L
12) T C30	15 98	3431	0 129 mg/L
13) T C32	16 45	3152	0 119 mg/L
14) T C34	17 59	2852	0 106 mg/L
15) T C36	18 68	916	0 034 mg/L
16) T C38	20 34	2193	0 083 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	3512	0 140 mg/L
20) T Phytane	12 51	2814	0 110 mg/L
21) T TPHC (Manual Integration)	11 81	3512	0 114 mg/L
22) H TPrC (Total)	12 00	75055	2 856 mg/L

Data File C:\HPCHEM\1\DATA\050118\T017689.D Vial 10
Acq On 18 Jan 2005 1 59 pm Operator PSkelton
Sample 5002006s Inst GC/MS Ins
Misc Multiplr 1 00
IntFile EVENTS.BP.E
Quant Time Jan 18 14 26 2005 Quant Results File TPHC002.RES

Quant Method C:\HPCHEM\1\METHODS\TPHC002.M (Chemstation Integrator)
Title GC TPH Method
Last Update Wed Dec 15 12 51 02 2004
Response via Multiple Level Calibration
DataAcq Meth TPHC002.M

Volume Inj
Signal Phase
Signal Info



Data File C:\HPCHEM\1\DATA\050118\T017691.D
 Acq On 18 Jan 2005 3 11 pm
 Sample 5002007s
 Misc
 IntFile EVENTSBP.E
 Quant Time Jan 19 8 25 2005

Vial 12
 Operator PSkelton
 Inst GC/MS Ins
 Multiplr 1 00

Quant Results File TPHC002.RES

Quant Method C:\HPCHEM\1\METHODS\TPHC002.M (Chemstation Integrator)
 Title GC TPH Method
 Last Update Wed Dec 15 12 51 02 2004
 Response via Initial Calibration
 DataAcq Meth TPHC002.M

Volume Inj
 Signal Phase
 Signal Info

Compound	R T	Response	Conc Units

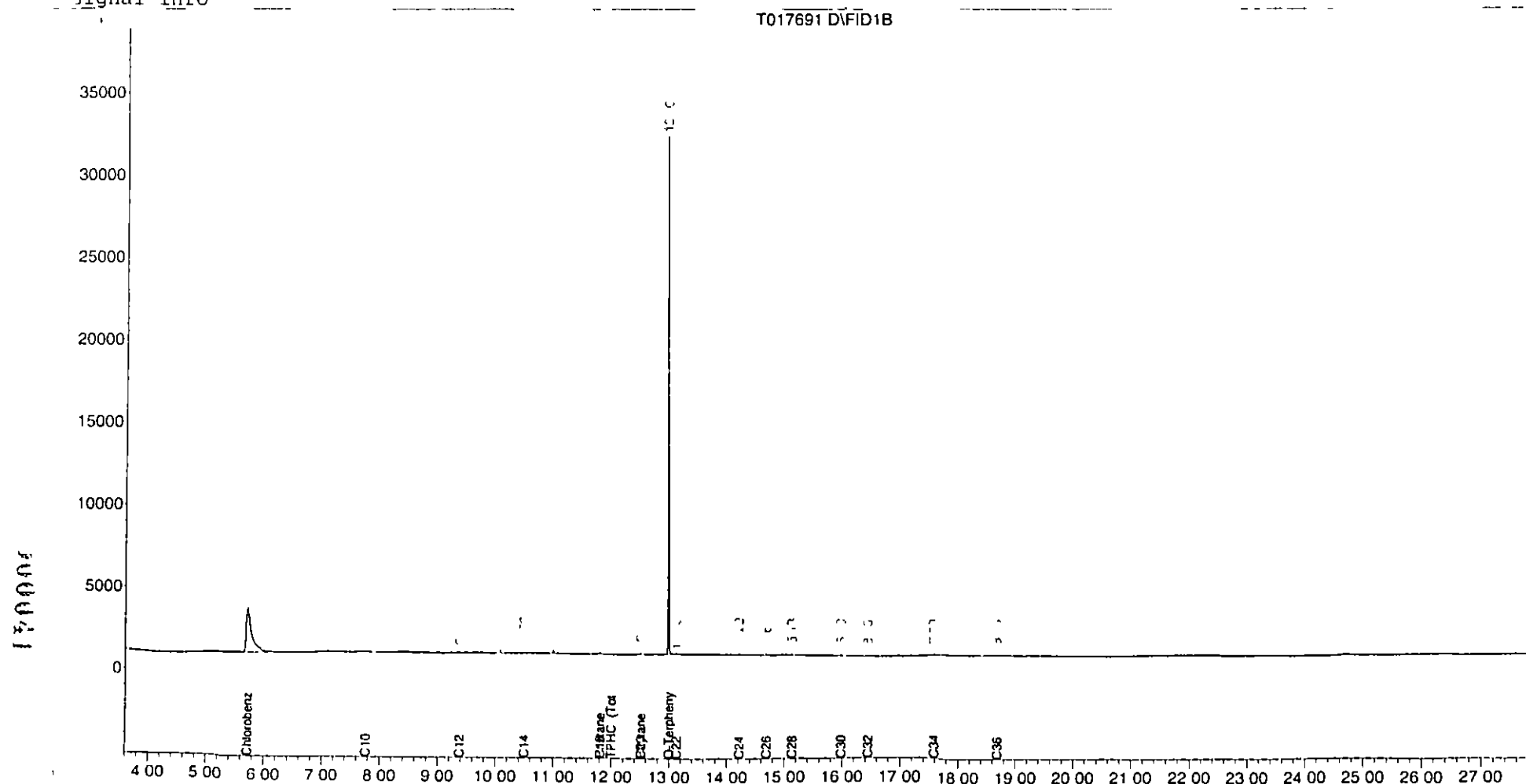
System Monitoring Compounds			
23) S Chlorobenzene (SURR)	5 72	168690	10 345 mg/L
Spiked Amount 10 000	Recovery	=	103 45%
24) S O-Terphenyl (SURR)	13 00	295166	11 145 mg/L
Spiked Amount 10 000	Recovery	=	111 45%
Target Compounds			
1) T C8	0 00	0	N D mg/L
2) T C10	7 77	4924	0 204 mg/L
3) T C12	9 38	269	0 011 mg/L
4) T C14	10 50	2252	0 092 mg/L
5) T C16	11 81f	1338	0 053 mg/L
6) T C18	11 81	1338	0 055 mg/L
7) T C20	12 51	1759	0 071 mg/L
8) T C22	13 13	615	0 024 mg/L
9) T C24	14 22	825	0 032 mg/L
10) T C26	14 69	659	0 025 mg/L
11) T C28	15 14	679	0 026 mg/L
12) T C30	15 99	1083	0 041 mg/L
13) T C32	16 45	874	0 033 mg/L
14) T C34	17 59	3712	0 138 mg/L
15) T C36	18 69	4323	0 158 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	1338	0 053 mg/L
20) T Phytane	12 51	1759	0 069 mg/L
21) T TPHC (Manual Integration)	0 00	0	N D mg/L d
22) H TPHC (Total)	12 00	47953	1 825 mg/L

Data File C:\HPCHEM\1\DATA\050118\T017691.D
Acq On 18 Jan 2005 3 11 pm
Sample 5002007s
Misc
IntFile EVENTS.BP.E
Quant Time Jan 19 8 25 2005 Quant Results File TPHC002.RES

Vial 12
Operator PSkelton
Inst GC/MS Ins
Multiplr 1.00

Quant Method C:\HPCHEM\1\METHODS\TPHC002.M (Chemstation Integrator)
Title GC TPH Method
Last Update Wed Dec 15 12 51 02 2004
Response via Multiple Level Calibration
DataAcq Meth TPHC002.M

Volume Inj
Signal Phase
Signal Info



Data File C:\HPCHEM\1\DATA\050118\T017692.D Vial 13
 Acq On 18 Jan 2005 3 47 pm Operator PSkelton
 Sample 5002008s Inst GC/MS Ins
 Misc Multiplr 1 00
 IntFile EVENTSBP.E
 Quant Time Jan 19 8 25 2005 Quant Results File TPHC002.RES

Quant Method C:\HPCHEM\1\METHODS\TPHC002.M (Chemstation Integrator)
 Title GC TPH Method
 Last Update Wed Dec 15 12 51 02 2004
 Response via Initial Calibration
 DataAcq Meth TPHC002.M

Volume Inj
 Signal Phase
 Signal Info

Compound	R T	Response	Conc Units

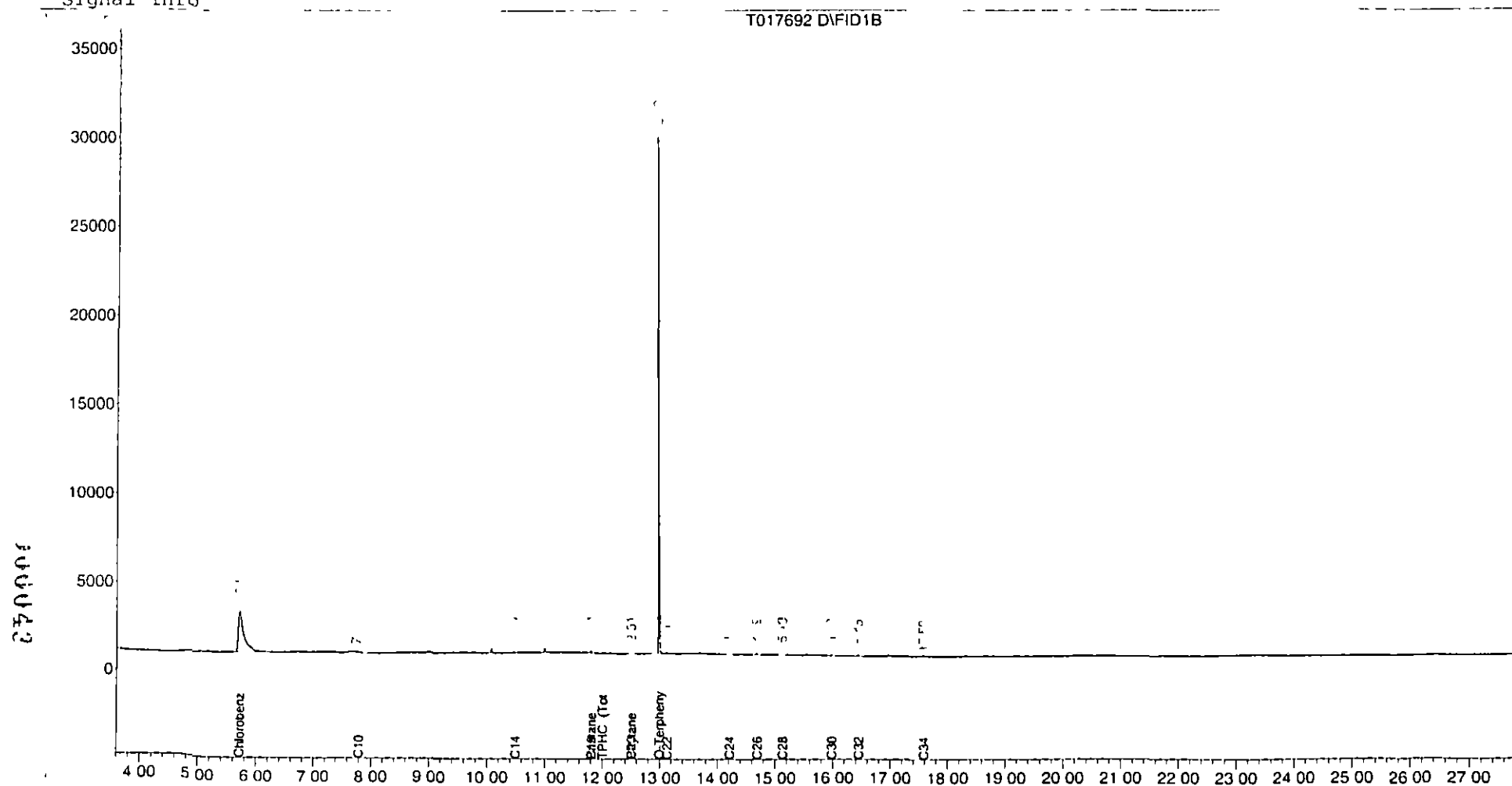
System Monitoring Compounds			
23) S Chlorobenzene (SURR)	5 72	149491	9 347 mg/L
Spiked Amount 10 000	Recovery	=	93 47%
24) S O-Terphenyl (SURR)	12 99	264505	10 157 mg/L
Spiked Amount 10 000	Recovery	=	101 57%
Target Compounds			
1) T C8	0 00	0	N D mg/L
2) T C10	7 80	4849	0 201 mg/L
3) T C12	0 00	0	N D mg/L
4) T C14	10 50	408	0 017 mg/L
5) T C16	11 81f	1060	0 042 mg/L
6) T C18	11 81	1060	0 044 mg/L
7) T C20	12 51	849	0 034 mg/L
8) T C22	13 13	781	0 030 mg/L
9) T C24	14 22	801	0 031 mg/L
10) T C26	14 69	981	0 037 mg/L
11) T C28	15 13	1096	0 041 mg/L
12) T C30	15 98	1096	0 041 mg/L
13) T C32	16 45	1257	0 048 mg/L
14) T C34	17 59	1037	0 039 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	11 81	1060	0 042 mg/L
20) T Phytane	12 51	849	0 033 mg/L
21) T TPHC (Manual Integration)	0 00	0	N D mg/L d
22) H TPHC (Total)	12 00	29519	1 123 mg/L

Data File C:\HPCHEM\1\DATA\050118\T017692.D
Acq On 18 Jan 2005 3:47 pm
Sample 5002008s
Misc
IntFile EVENT5BP.E
Quant Time Jan 19 8:25 2005 Quant Results File TPHC002.RES

Vial 13
Operator PSkelton
Inst GC/MS Ins
Multiplr 1.00

Quant Method C:\HPCHEM\1\METHODS\TPHC002.M (Chemstation Integrator)
Title GC TPH Method
Last Update Wed Dec 15 12:51:02 2004
Response via Multiple Level Calibration
DataAcq Meth TPHC002.M

Volume Inj
Signal Phase
Signal Info



Data File C \HPCHEM\1\DATA\050118\T017693 D Vial 14
 Acq On 18 Jan 2005 4 23 pm Operator PSkelton
 Sample 5002009s Inst GC/MS Ins
 Misc Multiplr 1 00
 IntFile EVENTSBP E
 Quant Time Jan 19 8 25 2005 Quant Results File TPHC002 RES

Quant Method C \HPCHEM\1\METHODS\TPHC002 M (Chemstation Integrator)
 Title GC TPH Method
 Last Update Wed Dec 15 12 51 02 2004
 Response via Initial Calibration
 DataAcq Meth TPHC002 M

Volume Inj
 Signal Phase
 Signal Info

Compound	R T	Response	Conc Units

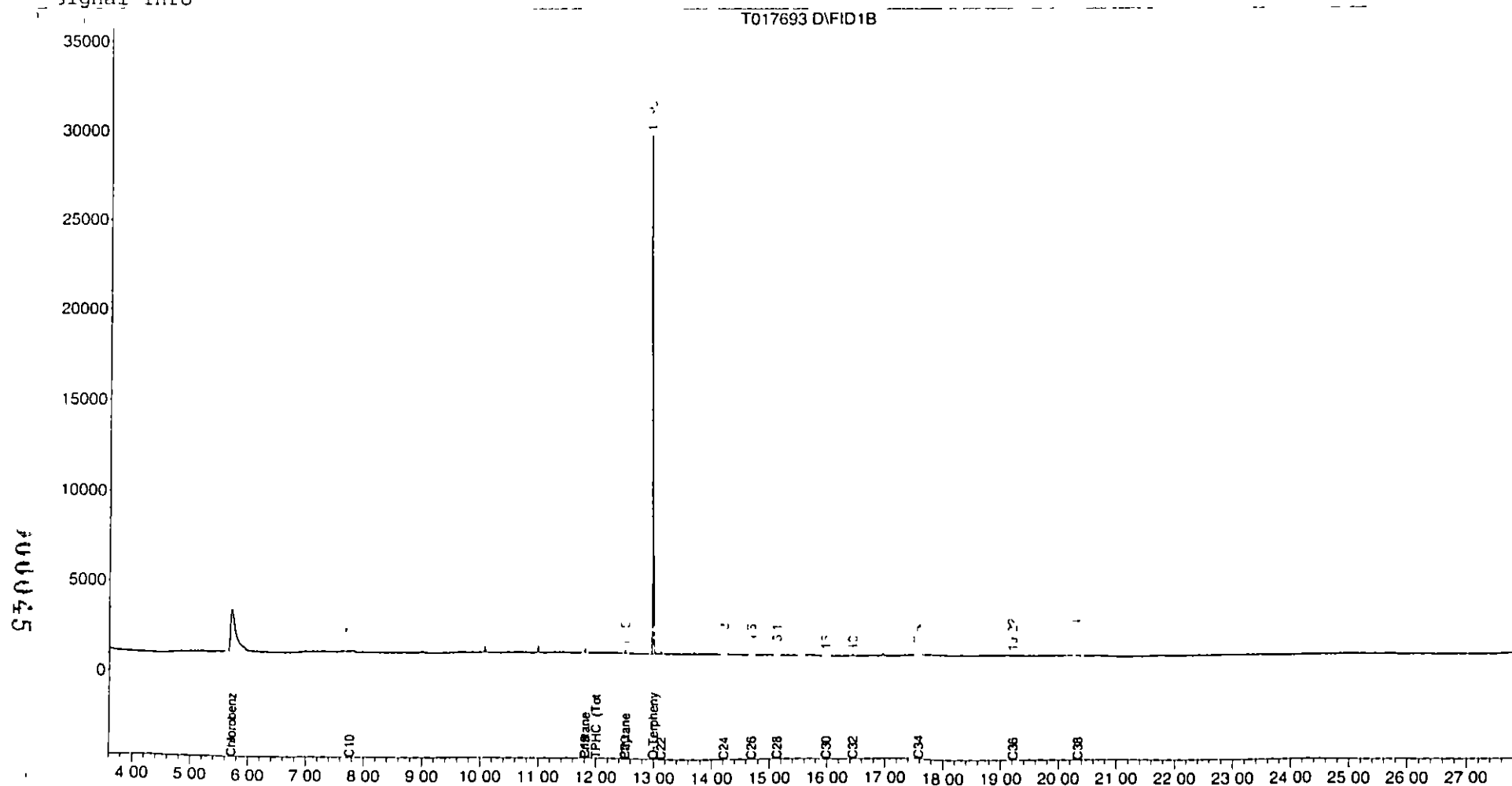
System Monitoring Compounds			
23) S Chlorobenzene (SURR)	5 72	154669	9 616 mg/L
Spiked Amount 10 000	Recovery	=	96 16%
24) S O-Terphenyl (SURR)	12 99	258623	9 967 mg/L
Spiked Amount 10 000	Recovery	=	99 67%
Target Compounds			
1) T C8	0 00	0	N D mg/L
2) T C10	7 76	2295	0 095 mg/L
3) T C12	0 00	0	N D mg/L
4) T C14	0 00	0	N D mg/L
5) T C16	11 81f	2480	0 099 mg/L
6) T C18	11 81	2480	0 102 mg/L
7) T C20	12 51	1767	0 071 mg/L
8) T C22	13 13	1436	0 056 mg/L
9) T C24	14 22	1156	0 045 mg/L
10) T C26	14 69	1376	0 052 mg/L
11) T C28	15 13	1466	0 055 mg/L
12) T C30	15 98	1870	0 070 mg/L
13) T C32	16 45	1628	0 062 mg/L
14) T C34	17 58	1520	0 056 mg/L
15) T C36	19 22f	1146	0 042 mg/L
16) T C38	20 34	1410	0 053 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	2480	0 099 mg/L
20) T Phytane	12 51	1767	0 069 mg/L
21) T TPHC (Manual Integration)	0 00	0	N D mg/L d
22) H TPHC (Total)	12 00	39684	1 510 mg/L

Data File C:\HPCHEM\1\DATA\050118\T017693.D
Acq On 18 Jan 2005 4 23 pm
Sample 5002009s
Misc
IntFile EVENTSBP.E
Quant Time Jan 19 8 25 2005 Quant Results File TPHC002.RES

Vial 14
Operator P.Skelton
Inst GC/MS Ins
Multiplr 1.00

Quant Method C:\HPCHEM\1\METHODS\TPHC002.M (Chemstation Integrator)
Title GC TPH Method
Last Update Wed Dec 15 12 51 02 2004
Response via Multiple Level Calibration
DataAcq Meth TPHC002.M

Volume Inj
Signal Phase
Signal Info



Data File C:\HPCHEM\1\DATA\050118\T017694.D Vial 15
 Acq On 18 Jan 2005 5 00 pm Operator PSkelton
 Sample 5002010s Inst GC/MS Ins
 Misc Multipir 1 00
 IntFile EVENTSBP E
 Quant Time Jan 19 8 26 2005 Quant Results File TPHC002 RES

Quant Method C:\HPCHEM\1\METHODS\TPHC002.M (Chemstation Integrator)
 Title GC TPH Method
 Last Update Wed Dec 15 12 51 02 2004
 Response via Initial Calibration
 DataAcq Meth TPHC002.M

Volume Inj
 Signal Phase
 Signal Info

Compound	R T	Response	Conc Units

System Monitoring Compounds			
23) S Chlorobenzene (SURR)	5 72	158789	9 830 mg/L
Spiked Amount 10 000	Recovery	=	98 30%
24) S O-Terphenyl (SURR)	13 00	271733	10 390 mg/L
Spiked Amount 10 000	Recovery	=	103 90%
Target Compounds			
1) T C8	0 00	0	N D mg/L
2) T C10	7 76	307	0 013 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 59	294	0 012 mg/L
6) T C18	11 81	2859	0 118 mg/L
7) T C20	12 51	2244	0 090 mg/L
8) T C22	13 25	522	0 020 mg/L
9) T C24	13 99	285	0 011 mg/L
10) T C26	14 69	2254	0 085 mg/L
11) T C28	15 13	2532	0 096 mg/L
12) T C30	15 99	2791	0 105 mg/L
13) T C32	16 45	2716	0 103 mg/L
14) T C34	17 59	2590	0 096 mg/L
15) T C36	18 69	1477	0 054 mg/L
16) T C38	20 35	1649	0 062 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	2859	0 114 mg/L
20) T Phytane	12 51	2244	0 088 mg/L
21) T TPHC (Manual Integration)	0 00	0	N D mg/L d
22) H TPHC (Total)	12 00	51740	1 969 mg/L

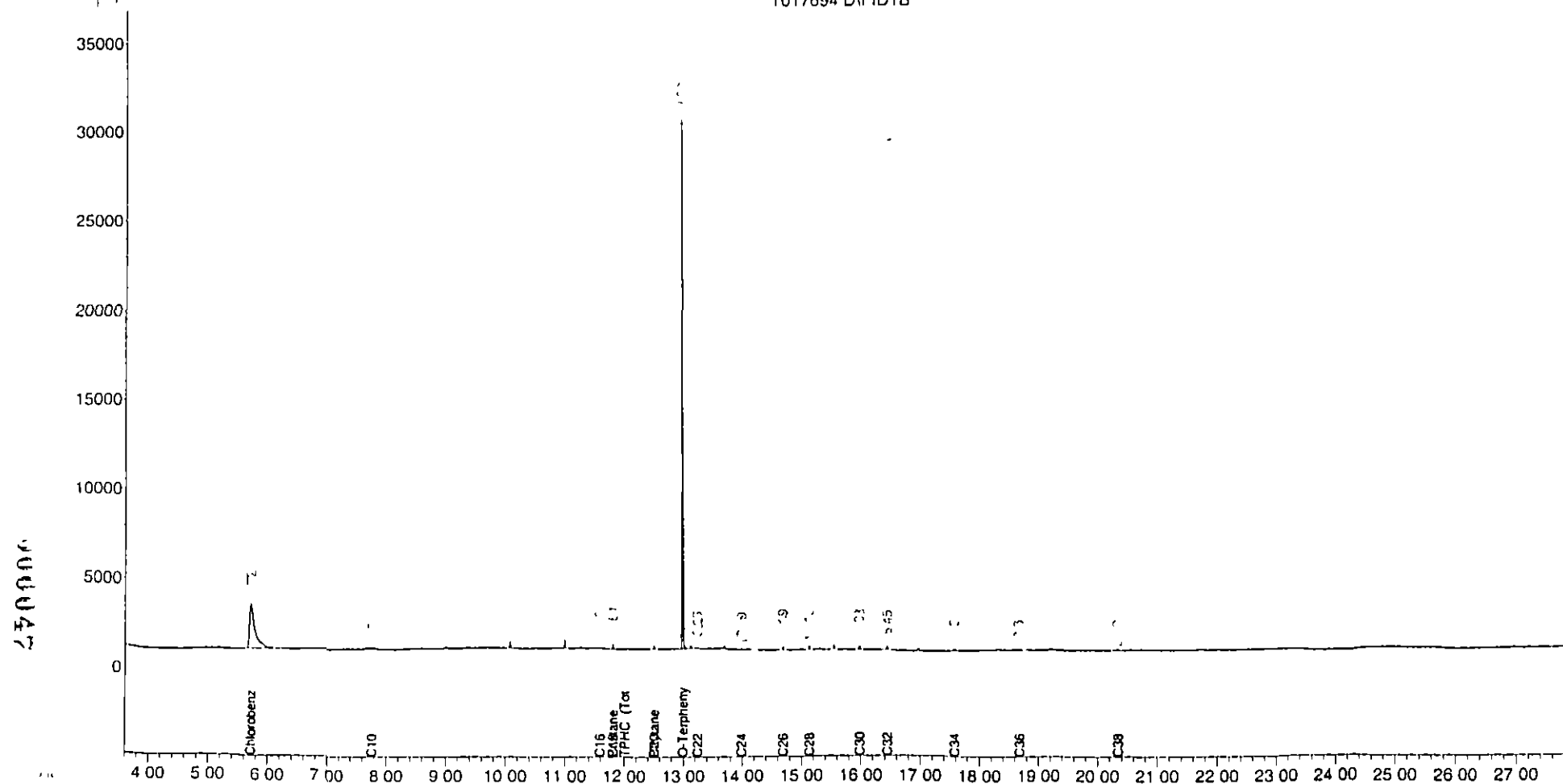
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Acq On 18 Jan 2005 5 00 pm
Sample 5007010s
Misc
IntFile EVENTS.BP.E
Quant Time Jan 19 8 26 2005 Quant Results File TPHC002.RES

Vial 15
Operator PSkelton
Inst GC/MS Ins
Multiplr 1 00

Quant Method C:\HPCHEM\1\METHODS\TPHC002.M (Chemstation Integrator)
Title GC TPH Method
Last Update Wed Dec 15 12 51 02 2004
Response via Multiple Level Calibration
DataAcq Meth TPHC002.M

Volume Inj
Signal Phase
Signal Info

T017694.D\FID18



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 ____/____/____

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

ATTACHMENT C

UST Closure Approval/NFA for Building 1076

(Tanks 1076-160 and 1076-1601)



State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Robert C. Shinn, Jr.
Commissioner

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

AUG 29 2000

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

Dear Mr. Desai:

The NJDEP is in receipt of seventeen (17) UST closure reports dated June 1, 2000. The Army has requested to receive No Further Action approval letters for each of these reports. This letter approves the NFA requests for the following 17 UST located on the Main Post of the Fort Monmouth site:

NJDEP Req. #	Bldg. #	NJDEP Req. #	Bldg. #
0090010-06	80	0081533-226	707
0090010-17	166	0081533-119	745
0081533-5	207A	0081533-160	1076
0081533-211	207B	0081533-161	1076
0081533-57	282	0081533-168	1108
0081533-64	290	00192486-1	2000
0081533-68	295	0081515-62	2700.4
0081533-108	689A	00192486-30	3050
0081533-109	689B		

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

The NJDEP has one comment in that we request that future reports provide ground water flow direction indications on the well location maps.

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

Sincerely,


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

ATTACHMENT D

**Figure 1 Fort Monmouth Patterson Army Health Clinic Public
Sale/Lease Parcel and Intersecting ECP Parcel**

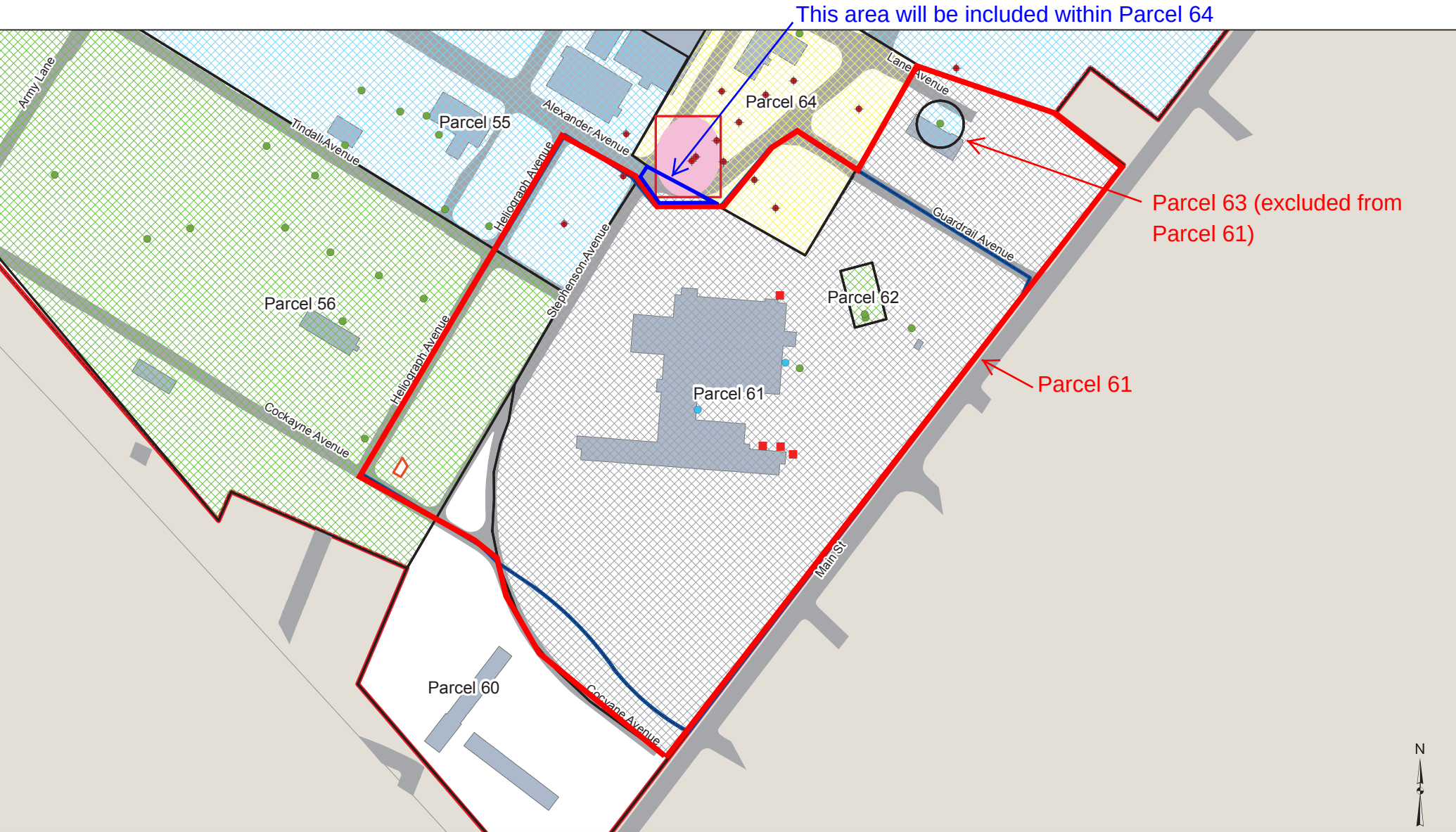
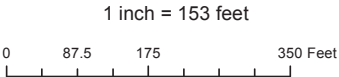


Figure 1
Fort Monmouth
Patterson Army Health Clinic Public Sale / Lease Parcel
And Intersecting ECP Parcels

Publication Date: 17 APR 2012
 Spheroid: WGS 1984
 Projection: UTM Zone 18
 Prepared by: Marc Thompson, CALIBRE GIS Team



Legend

- | | | |
|------------------------|------------------------------|------------------------|
| Clinic Parcel Boundary | Current AST Location | Remediated Area 800-75 |
| Installation Area | Former UST Location | Proposed CEA Area |
| Road Area | Surface Soil Sample Location | Monitoring Well |