

### **United States Army**

Fort Monmouth, New Jersey

# Underground Storage Tank Closure and Site Investigation Report

Building 744
Main Post-West Area

NJDEP UST Registration No. 0081533-118

**DECEMBER 1998** 

# UNDERGROUND STORAGE TANK CLOSURE AND SITE INVESTIGATION REPORT

#### **BUILDING 744**

### MAIN POST-WEST AREA NJDEP UST REGISTRATION NO. 0081533-118

#### **DECEMBER 1998**

#### PREPARED FOR:

UNITED STATES ARMY, FORT MONMOUTH, NEW JERSEY
DIRECTORATE OF PUBLIC WORKS
BUILDING 167
FORT MONMOUTH, NJ 07703

#### PREPARED BY:

VERSAR 1900 FROST ROAD BRISTOL, PA 19007

PROJECT NO. 2491-308

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#### **EXECUTIVE SUMMARY**

#### **UST Closure**

On July 17, 1998, a fiberglass underground storage tank (UST) was closed by removal in accordance with the New Jersey Department of Environmental Protection (NJDEP) underground storage tank procedures at the Main Post-West area of the U.S. Army Fort Monmouth, Fort Monmouth, New Jersey. The UST, NJDEP Registration No. 0081533-118 (Fort Monmouth ID No. 744), was located southeast of Building 744. UST No. 0081533-118 was a 550-gallon No. 2 fuel oil UST.

#### Site Assessment

The site assessment was performed by U.S. Army personnel in accordance with the NJDEP *Technical Requirements for Site Remediation* (N.J.A.C. 7:26E) and the NJDEP *Field Sampling Procedures Manual*. The sampling and laboratory analysis conducted during the site assessment were performed in accordance with Section 7:26E-2.1 of the *Technical Requirements for Site Remediation*. Soils surrounding the tank were screened visually and with air monitoring equipment for evidence of contamination. Following removal, the UST was inspected for corrosion holes or punctures. No holes or punctures were noted in the UST. Groundwater was encountered at a depth of 6.0 feet bgs. No evidence of potentially contaminated soil or groundwater was observed surrounding the tank. Samples contained non-detectable level of TPHC.

#### Site Restoration

Following receipt of all post-excavation soil sampling results, the excavation was backfilled to grade with crushed stone, sand, and native backfill and restored to its original condition.

#### Conclusions and Recommendations

Based on the post-excavation soil sampling results, soils with TPHC concentrations exceeding the NJDEP soil cleanup criteria for total organic contaminants of 10,000 mg/kg, do not exist in the former location of the UST or associated piping.

No further action is proposed in regard to the closure and site assessment of UST No. 0081533-118 at Building 744.

## 1.0 UNDERGROUND STORAGE TANK DECOMMISSIONING ACTIVITIES

#### 1.1 OVERVIEW

One underground storage tank (UST), New Jersey Department of Environmental Protection (NJDEP) Registration No. 0081533-118, was closed at Building 744 at the Main Post-West area of U.S. Army Fort Monmouth, Fort Monmouth, New Jersey on July 17, 1998. Refer to site location map on Figure 1. This report presents the results of the Department of Public Works= (DPW) implementation of the UST Decommissioning/Closure Plan approved by the NJDEP. The UST was a fiberglass 550-gallon tank containing No. 2 fuel oil.

Decommissioning activities for UST No. 0081533-118 complied with all applicable Federal, State and Local laws and ordinances in effect at the date of decommissioning. These laws included but were not limited to N.J.A.C. 7:14B-1 et seq., N.J.A.C. 5:23-1 et seq., and Occupational Safety and Health Administration (OSHA) 1910.146 & 1910.120. All permits including but not limited to the NJDEP-approved Decommissioning/Closure Plan were posted onsite for inspection. The decommissioning activities were conducted by DPW personnel who are registered and certified by the NJDEP for performing UST closure activities. Closure of UST No. 0081533-118 proceeded under the approval of the NJDEP Bureau of Underground Storage Tanks (NJDEP-BUST). The Standard Reporting Form and signed Site Assessment Summary form for UST No. 0081533-118 are included in Appendices A and B, respectively.

Based on inspecting the UST, field screening of subsurface soils and groundwater, and reviewing analytical results of collected soil samples, the DPW has concluded that no significant historical discharges are associated with the UST or associated piping.

This UST Closure and Site Investigation Report has been prepared by Versar, to assist the United States Army Directorate of Public Works (DPW) in complying with the NJDEP-BUST regulations. The applicable NJDEP-BUST regulations at the date of closure were the *Interim Closure Requirements for Underground Storage Tank Systems* (N.J.A.C. 7:14B-1 et seq. October 1990 and revisions dated November 1, 1991).

This report was prepared using information collected at the time of closure. Section 1 of this UST Closure and Site Investigation Report provides a summary of the UST decommissioning activities. Section 2 of this report describes the site investigation activities. Conclusions and recommendations, including the results of the soil sampling investigation, are presented in the final section of this report.

#### 1.2 SITE DESCRIPTION

Building 744 is located in the Main Post-West area of the Fort Monmouth Army Base. UST No. 0081533-118 was located southeast of Building 744 and appurtenant copper piping ran approximately eleven (11) feet northwest from the excavation to Building 744. A site map is provided on Figure 2.

#### 1.2.1 Geological/Hydrogeological Setting

The following is a description of the geological/hydrogeological setting of the area surrounding Building 744. 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, 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

= 4

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 (i.e., streams, lakes)

Due to the fluvial nature of the overburden deposits (i.e., sand and clay lenses), shallow groundwater flow direction is best determined on a case-by-case basis. 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 744 is located approximately 300 feet north of Husky Brook, the nearest water body. Based on the Main Post topography, the groundwater flow in the area of Building 744 is anticipated to be to the south.

#### 1.3 HEALTH AND SAFETY

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

#### 1.4 REMOVAL OF UNDERGROUND STORAGE TANK

#### 1.4.1 General Procedures

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

#### 1.4.2 Underground Storage Tank Excavation and Cleaning

Prior to UST decommissioning activities, surficial soil was removed to expose the UST and associated piping. All free product present in the piping was drained into the UST, and the UST was purged to remove vapors prior to cutting and removal of the piping. After removal of the associated piping, a manway was made in the UST to allow for proper cleaning. The UST was completely emptied of all liquids prior to removal from the ground. LORCO Petroleum Services transported approximately 50 gallons of liquid from the UST and its associated piping to LORCO Petroleum Services facility, a NJDEP-approved petroleum recycling and disposal company located in Old Bridge, New Jersey. Refer to Appendix C for the waste manifest.

The UST was cleaned prior to removal from the excavation in accordance with the NJDEP-BUST regulations. After the UST was removed from the excavation, it was staged on polyethylene sheeting and examined for holes. No holes or punctures were observed during the inspection by the Sub-Surface Evaluator. Soils surrounding the UST were screened visually and with an OVA for evidence of contamination. No evidence of contamination was observed. Soil screening was also performed along the piping run associated with the UST closure. No contamination was noted anywhere along the piping length. Groundwater was encountered at a depth of 6.0 feet bgs and no sheen was observed. See Figure 3 for a cross-sectional view of the excavated area.

#### 1.5 UNDERGROUND STORAGE TANK TRANSPORTATION AND DISPOSAL

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

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

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

#### 1.6 MANAGEMENT OF EXCAVATED SOILS

Based on OVA air monitoring and TPHC analysis results from the post-excavation soil samples, no soils exhibited signs of contamination. Therefore, the excavated soils were used as backfill following removal of the UST.

#### 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 U.S. Army Fort Monmouth Environmental Laboratory, a NJDEP-certified testing laboratory. All sampling was performed under the direct supervision of a NJDEP Certified Sub-Surface Evaluator according to the methods described in the NJDEP *Field Sampling Procedures Manual* (1992). Sampling frequency and parameters analyzed complied with the NJDEP-BUST document *Interim Closure Requirements for Underground Storage Tank Systems* (October 1990 and revisions dated November 1, 1991) which was the applicable regulation at the date of the closure. All records of the Site Investigation activities are maintained by the Fort Monmouth DPW Environmental Office.

The following Parties participated in Closure and Site Investigation Activities:

Subsurface Evaluator: Dinker DeSai
 Employer: U.S. Army, Fort Monmouth

Phone Number: (732) 532-6224 NJDEP Certification No.: 0010173

• Analytical Laboratory: U.S. Army Fort Monmouth Environmental Laboratory

Contact Person: Daniel K. Wright Phone Number: (908) 532-4359

NJDEP Company Certification No.: 13461

Hazardous Waste Hauler: LORCO Petroleum Services

Contact Person: Douglas Van Pelt Phone Number: (908) 721-0900

#### 2.2 FIELD SCREENING/MONITORING

Field screening was performed by a NJDEP Certified Sub-Surface Evaluator using an OVA and visual observations to identify potentially contaminated material. Soil excavated from around the tank and appurtenant piping, as well as the UST excavation sidewalls and bottom, did not exhibit any evidence of potential contamination. Groundwater was encountered at a depth of 6.0 feet bgs and no sheen was observed.

#### 2.3 SOIL SAMPLING

On July 17, 1998, following the removal of the UST, post-excavation soil samples A, B, C, D, E, F, and DUP C were collected from a total of six (6) locations of the UST excavation. Sample A was collected along the excavation floor at a depth of 8.5 feet bgs. Sidewall samples B, C, D, and E were collected at a depth of 5.5 feet bgs. Piping sample F was collected at a depth of 1.0 feet bgs. All samples were analyzed for total petroleum hydrocarbons (TPHC) and total solids.

U.S. Army personnel in accordance with the NJDEP Technical Requirements and the NJDEP Field Sampling Procedures Manual performed the site assessment. A summary of sampling activities including parameters analyzed is provided in Table 1. The post-excavation soil samples were collected using NJDEP *Field Sampling Procedures Manual* (1992) standard sampling procedures. Following soil sampling activities, the samples were chilled and delivered to U.S. Army Fort Monmouth Environmental Laboratory located in Fort Monmouth, New Jersey, for analysis.

#### 3.0 CONCLUSIONS AND RECOMMENDATIONS

#### 3.1 SOIL SAMPLING RESULTS

To evaluate soil conditions following removal of the UST, post-excavation soil samples were collected on July 17, 1998, from a total of six (6) locations. All samples were analyzed for TPHC and total solids. The post-excavation sampling results were compared to the NJDEP residential direct contact total organic contaminants soil cleanup criteria of 10,000 mg/kg (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 in Table 2 and the soil sampling locations are shown on Figure 4. The analytical data package is provided in Appendix E.

All post-excavation soil samples collected on July17, 1998, from the UST excavation and from below piping associated with the UST contained concentrations of TPHC below the NJDEP soil cleanup criteria. Samples contained non-detectable levels of TPHC.

#### 3.2 CONCLUSIONS AND RECOMMENDATIONS

The analytical results for all post-excavation soil samples collected from the UST closure excavation at Building 744 were below the NJDEP soil cleanup criteria for total organic contaminants.

Based on the post-excavation sampling results, soils with TPHC concentrations exceeding the NJDEP soil cleanup criteria for total organic contaminants of 10,000 mg/kg, do not exist in the former location of the UST or associated piping.

No further action is proposed in regard to the closure and site assessment of UST No. 0081533-118 at Building 744.

**TABLES** 

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TABLE 1

SUMMARY OF POST-EXCAVATION SAMPLING ACTIVITIES
BUILDING 744, MAIN POST-WEST AREA
FORT MONMOUTH, NEW JERSEY

Page 1 of 1

| Sample ID | Date of<br>Collection | Date Analysis<br>Started | Matrix | Sample Type     | Analytical Parameters* | Analysis Method |
|-----------|-----------------------|--------------------------|--------|-----------------|------------------------|-----------------|
| Α         | 7/17/98               | 7/20/98                  | Soil   | Post-Excavation | TPHC                   | OQA-QAM-025     |
| В         | 7/17/98               | 7/20/98                  | Soil   | Post-Excavation | TPHC                   | OQA-QAM-025     |
| C         | 7/17/98               | 7/20/98                  | Soil   | Post-Excavation | TPHC                   | OQA-QAM-025     |
| D         | 7/17/98               | 7/20/98                  | Soil   | Post-Excavation | TPHC                   | OQA-QAM-025     |
| ${f E}$   | 7/17/98               | 7/20/98                  | Soil   | Post-Excavation | TPHC                   | OQA-QAM-025     |
| F         | 7/17/98               | 7/20/98                  | Soil   | Post-Excavation | TPHC                   | OQA-QAM-025     |
| DUP C     | 7/17/98               | 7/20/98                  | Soil   | Post-Excavation | TPHC                   | OQA-QAM-025     |

Note:

\* TPHC Total Petroleum Hydrocarbons

TABLE 2 POST-EXCAVATION SOIL SAMPLING RESULTS **BUILDING 744, MAIN POST-WEST AREA** FORT MONMOUTH, NEW JERSEY

Page 1 of 1

| Sample ID/<br>Depth | Sample<br>Laboratory ID | Sample<br>Date | Analysis<br>Date | Analytical<br>Method<br>Used | Method<br>Detection<br>Limit<br>(mg/kg) | Compound<br>of<br>Concern | Result<br>(mg/kg) * | NJDEP<br>Soil Cleanup<br>Criteria **<br>(mg/kg) | Exceeds<br>Cleanup<br>Criteria |
|---------------------|-------------------------|----------------|------------------|------------------------------|---|---------------------------|---------------------|---|--------------------------------|
| A/8.5=              | 3737.01                 | 7/17/98        | 7/20/98          | Total Solid                  |   |                           | 68.66               |   |                                |
|                     |                         |                |                  | TPHC                         | 227                                     | Yes                       | ND                  | 10,000  | No                             |
| B/5.5 =             | 3737.02                 | 7/17/98        | 7/20/98          | Total Solid                  |   |                           | 75.56               |   |                                |
|                     |                         |                |                  | TPHC                         | 199                                     | Yes                       | ND                  | 10,000  | No                             |
| C/5.5 =             | 3737.03                 | 7/17/98        | 7/20/98          | Total Solid                  |   |                           | 79.78               |   |                                |
|                     |                         |                |                  | TPHC                         | 190                                     | Yes                       | ND                  | 10,000  | No                             |
| D/5.5 =             | 3737.04                 | 7/17/98        | 7/20/98          | Total Solid                  |   |                           | 67.87               |   |                                |
|                     |                         |                |                  | TPHC                         | 225                                     | Yes                       | ND                  | 10,000  | No                             |
| E/5.5=              | 3737.05                 | 7/17/98        | 7/20/98          | Total Solid                  |   |                           | 81.29               |   |                                |
|                     |                         |                |                  | TPHC                         | 189                                     | Yes                       | ND                  | 10,000  | No                             |
| F/1.0=              | 3737.06                 | 7/17/98        | 7/20/98          | Total Solid                  |   |                           | 88.08               |   |                                |
|                     |                         |                |                  | TPHC                         | 175                                     | Yes                       | ND                  | 10,000  | No                             |
| DUP C $/5.5=$       | 3737.07                 | 7/17/98        | 7/20/98          | Total Solid                  |   |                           | 87.23               |   |                                |
|                     |                         |                |                  | TPHC                         | 177                                     | Yes                       | ND                  | 10,000  | No                             |

#### Note:

Total Solid results are expressed as a percentage.

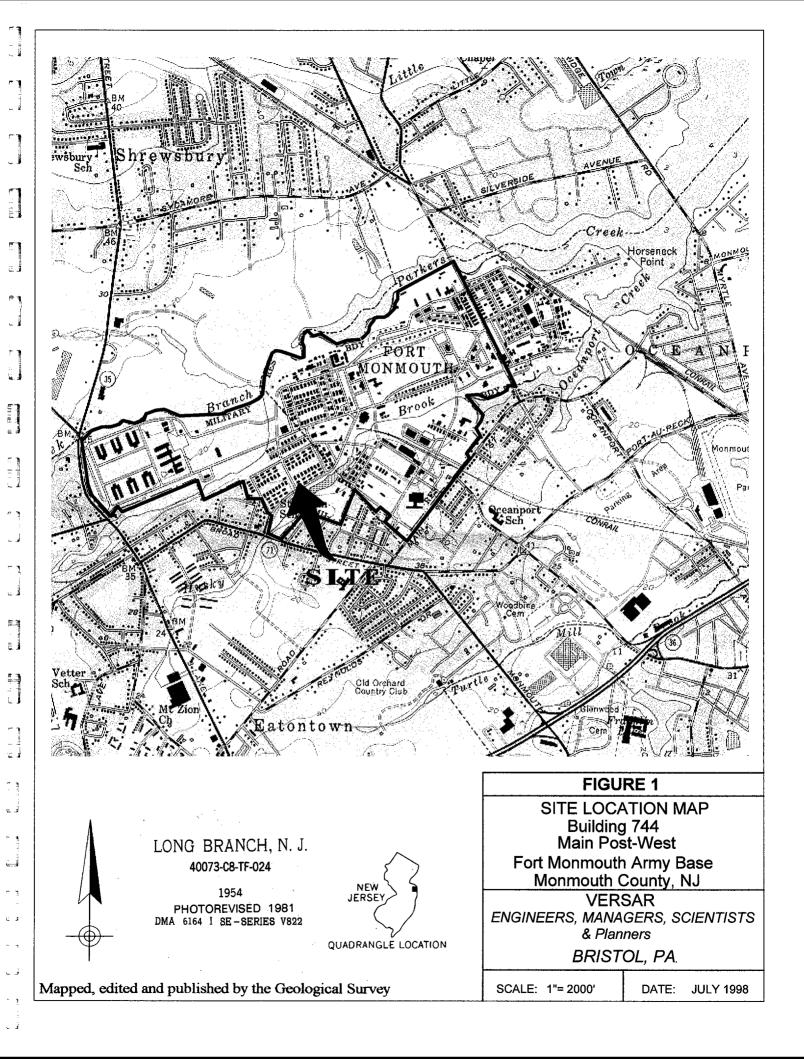
NJDEP Residential Direct Contact soil cleanup criteria for total organics

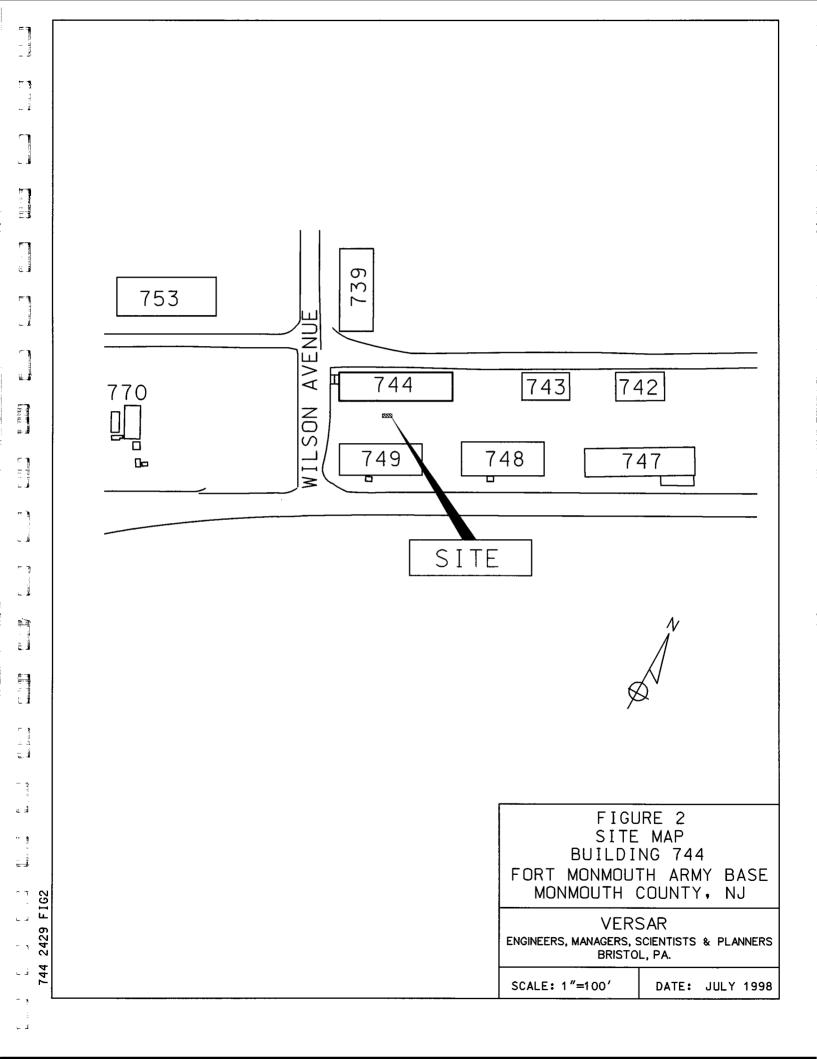
Not detected above stated sample quantitation limit

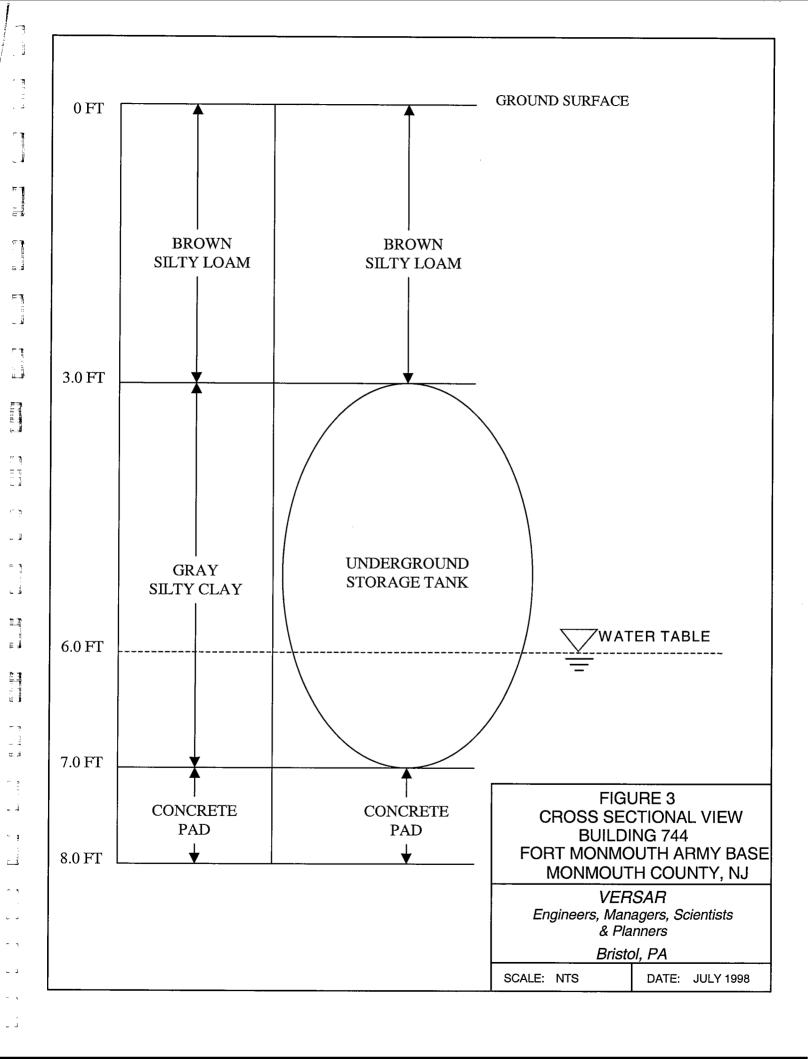
TPHC Total Petroleum Hydrocarbons

**FIGURES** 

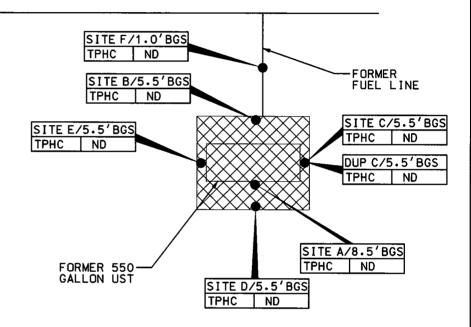
= 3







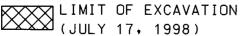
# BUILDING 744





#### **LEGEND**





#### NOTES:

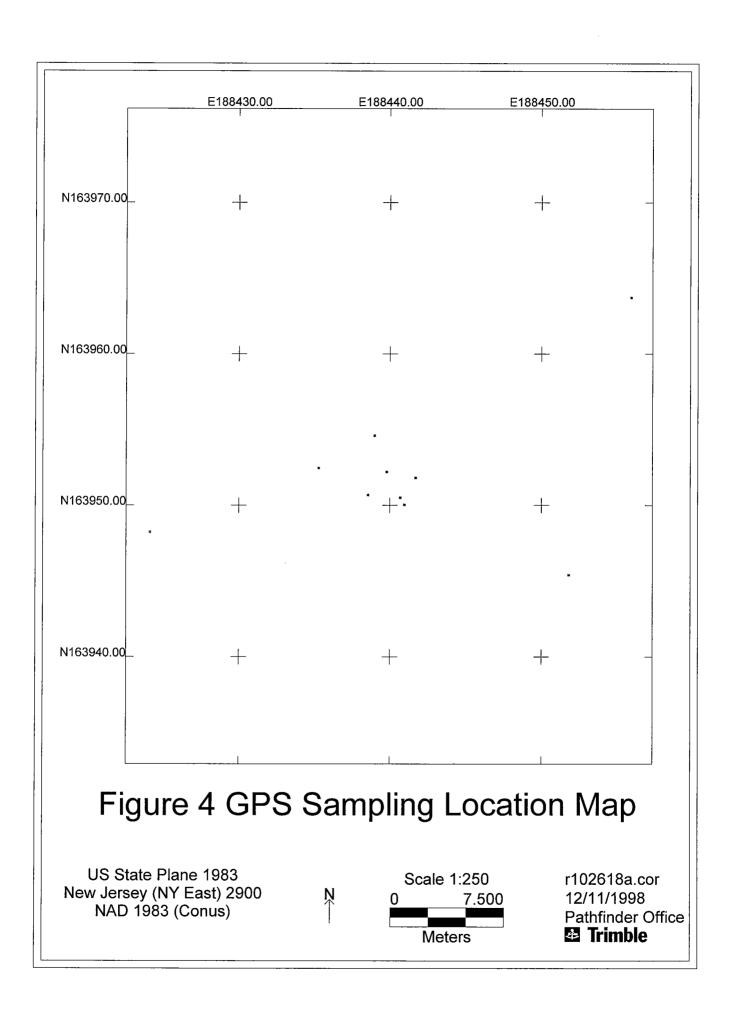
- 1. ALL RESULTS IN MG/KG.
- 2. SEE TABLE 2 FOR NJDEP SOIL CLEANUP CRITERIA
- 3. BGS = BELOW GROUND SURFACE

FIGURE 4 SOIL SAMPLING LOCATION MAP BUILDING 744 FORT MONMOUTH ARMY BASE MONMOUTH COUNTY, NJ

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

SCALE: 1"=10'

DATE: JULY 1998



#### Figure 4 GPS Sampling Location Point Data

US State Plane 1983 NJ (NY East) 2900 Nad 1983 (Conus)

#### **Reference Points**

| <u>Location</u>          | Y Coord. ( Northing ) | X Coord. ( Easting ) |
|--------------------------|-----------------------|----------------------|
| 744 BLDG SE CORNER       | 163963.743            | 188455.881           |
| 744 BLDG SW CORNER       | 163948.278            | 188424.114           |
| 749 BLDG NE CORNER       | 163945.446            | 188451.774           |
| CONCRETE STEPS SE CORNER | 163952.473            | 188435.271           |

#### **Sample Points**

| <u>Location</u> | Y Coord. ( Northing ) | X Coord. ( Easting ) |
|-----------------|-----------------------|----------------------|
| 744 A           | 163950.524            | 188440.66            |
| 744 B           | 163952.232            | 188439.764           |
| 744 C           | 163951.838            | 188441.677           |
| 744 D           | 163950.063            | 188440.945           |
| 744 E           | 163950.706            | 188438.525           |
| 744 F           | 163954.622            | 188438.965           |

# APPENDIX A NJDEP-STANDARD REPORTING FORM

= 1

#### Alk Copy NEW JERSEY L\_JARTMENT OF ENVIRONMENTAL PRO .\_\_\_TION

FOR STATE USE ONLY

Check In Yes

DIVISION OF RESPONSIBLE PARTY SITE REMEDIATION BUREAU OF APPLICABILITY AND COMPLIANCE Registration and Billing Unit

CN 028, Trenton, N.J. 08625-0028 1-609-984-3156

| 3  |  | UNDERGI  | ROUND STOR   | AGE TANK                                       | <b>(</b>  | STATUS<br>Active Inactive   | COMCODE                |
|--|--|--|--|--|---|-----------------------------|------------------------|
|  | FACILITY UST   | # 0081533  | ITY QUESTION   |  |   |                             |                        |
| T RECEIVED   | Completion of<br>Hazardous Su  | this Registration Question<br>bstances Act, N.J.S.A. 58:   | naire will satisfy the re  |  | 06. 744   | erground Storag             | ge of                  |
|  | A. Is this a real is this a real. Is this a real. Is this a condition of the condition of t | te box(es)]  Signification of a proposed or no signification of an existing under prection or amendment to an second or the factor of the fact | ewly installed undergrou<br>rground storage tank no<br>existing facility registrat<br>ility registration since las | nd storage tank? It presently regis ion? UST # | ? (This form must be filed tered?                             |                             |                        |
|  | Facility Name Owner Name Facility Opera Owner Contac   | and/or Address Change<br>and/or Address Change<br>ator and/or Address Change<br>ct Person Change   | Type of Product(s) Spills, Leaks, Relea Tank(s) and/or Pipir Closure (Complete                                     | Stored<br>ses<br>ng Changes                    | Financial Responsii Substantial Modifica Sale or Transfer (Co | ation(s)<br>omplete Questio | ns <b>4,5,6</b> & 13D) |
|  |  | GENERAL FACILITY INF   |  |  |   |                             |                        |
| . 🖺  | . Facility Name  | CAMIM POST   | INEST !  | <del></del>                                    |   | <u> </u>                    | 1111                   |
| <b>.</b> 2.  | Facility Location  | FORT MONN  | OUTH   | <u> </u>                                       | <u> </u>  |                             |                        |
|  |  |  |  | IUMBER AND STREET                              |   |                             |                        |
| Page 1   |  |  | C  | ITY OR MUNICIPALITY                            | <del></del>   | 1111                        |                        |
| i<br>3.  | Facility Operato   | COUNTY   | STATE  | ZP CODE  | Contact   BLOCK   | ــا لـــ                    | LOT                    |
|  | Operator Address   |  | PERSON OR TITLE  |  | Tele. No (Area Code)  | <u> </u>                    | (Extension)            |
|  | if different than<br>#2)   |  | NI I I I I I   | UMBER AND STREET                               | 11111   |                             | 1111                   |
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| Transfer of the second   |  |  | Cr   | TY OR MUNICIPALITY                             | 111111  | <u> </u>                    | 1111                   |
| الد  | T1-0   | STATE ZIP CO   | DE DE  |  |   |                             |                        |
| <u> </u>   | Tank Owner Tank Owner  | <u> </u>   | 111111   | 1111   | 1111111   |                             |                        |
|  | Address  |  | NU   | MBER AND STREET                                |   | <u> </u>                    | 1 1 1                  |
| (account of the contract of th |  |  |  | 1111   | <del>                                     </del>              | <u> </u>                    | 1 1 1                  |
| j  |  |  | L L I I I I I CIT  | Y OR MUNICIPALITY                              | <del>                                      </del>             | <u> </u>                    | 1.1.1.                 |
| ÷<br>ن   |  | STATE ZIP CO   | <del>d</del> l l   |  |   |                             |                        |
| ) (  | Contact Person<br>Tank Owner)  | CHIPIRILES AND   | PILIEBIY   |  | Contact [73,253]<br>Fele. No.(Area Code)                      | 216,2,2,41                  | (Extension)            |
|  | PAID#  |  |  |  |   |                             |                        |
| . 1 8. T   | otal number of r   | egulated underground storage   | e tanks at facility  | (Complete                                      | Section B for each tar  | (k)                         |                        |

| 9. Total regulated underground storage ta  | ı 'a   | pacit    | y at facili          | ty (ga   | lons        | s)                  |               |                  | $\mathbf{L}^{-\frac{1}{2}}$ | 1  | BLOG. 7  | 144  |                    | ÷             | ,              |
|--|--|----------|----------------------|--|-------------|---------------------|---------------|------------------|-----------------------------|--|--|--|--------------------|---------------|----------------|
| 10. Facility Type:  A State Commercial/ Industrial   | 6 <u>-</u>                                       | Co<br>Fe | unty/Mur<br>deral    | nicipal  | F           | Cha<br>Res          | rital<br>ide: | ble / Pu<br>nce  | ublic Scho                  | xol G<br>H                                       | Other  | as defin<br>3.1 et se  |                    | 1 N.J.S       | S. <i>P</i>    |
| 11. Is a copy of the facility site plan submitt  | ed wi  | th thi   | s registra           | tion p   | urst        | uant to N.J         | J.A.          | C. 7:14          | B-2?                        | YES  | □no  |  |                    |               | 1.             |
| <u>,</u>   |  |          | _                    |  |             |                     |               |                  |                             |  |  |  |                    |               | -              |
| SECTION B - SPECIFIC TANK INFO   |  |          |                      |  |             |                     |               |                  |                             |  |  |  |                    |               |                |
| ALL underground tanks, including those tak<br>9/3/86) must be registered. Report all tank/ | en ou<br>piping                                  | t of o   | peration<br>us chang | (UNL)<br>es un                                   | ESS<br>less | THE TAN<br>previous | yK V          | WAS R<br>ubmitte | EMOVED<br>d.                | FROM   | THE GRO  | JND PF   | ∛IOR               | то            | _              |
| 1. Tank Identification Number  | T/   | ANK      | NO.                  |  | ANK         | ( NO.               |               | TANK             | NO.                         | TAN  | IK NO.   | <u> </u>   | ANK                | NO.           | لي<br>         |
| 2. CAS Number (hazardous substances only)  | 11   | 11       |                      |  | Ш           | 1111                | L             | 111              | 1111                        |  |  |  |                    | علل           |                |
| 3. Date Tank Installed (Month/Day/Year)  | Mo.  | Day      | Year                 | Mo.  | Day         | Year                | Mo            | . Day            | Year                        | Mo. Da   | y Year   | Mo. D  | ay                 | Year          | • <u>•</u><br> |
| 4. Tank Size (gallons)   |  | П        |                      |  | $\top$      |                     | $\  \cdot \ $ | TT               |                             |  |  |  | П                  | TT            | آ٦             |
| 5. Tank Contents (Mark one "X" for each tank)  |  |          | <del></del>          |  |             |                     |               |                  | _                           |  |  |  |                    |               | Ē              |
| A. Leaded gasoline   |  |          |                      |  | $\perp$     | <u> </u>            | <u> </u>      |                  | ļ                           |  |  | <u> </u>   | $\perp \downarrow$ |               | <u>۔</u> ۔     |
| B. Unleaded gasoline   |  |          |                      |  | _           | <u> </u>            | ↓_            |                  | ļ                           |  | <u> </u>   | <del> </del>   | +-+                |               | _              |
| C. Alcohol endriched gasoline  | ļ  |          |                      | <u> </u>   | _           | <del> </del>        | -             |                  | <del> </del>                |  | <del>                                     </del> | +  | ++                 |               | l              |
| D. Light diesel fuel (No. 1-D)   |  |          | <u></u>              | -  | -           | <del> </del>        | -             | -                | <del> </del>                | ļ  |  | +  | ┼┼                 |               | <br>Li         |
| E. Medium diesel fuel (No. 2-D)  | <u> </u>   | +        | <u> </u>             | <del> </del>                                     |             | <del></del>         | ┼             |                  | <del> </del>                | · · · · ·  | <del>-  </del>                                   | +  | ╁┼                 |               | $\exists$      |
| F. Waste Oil   | <u> </u>   | -        |                      | <del> </del>                                     | +           |                     | ┼             | <del></del>      |                             | <del>                                     </del> | <del> </del>                                     | +  | ++                 |               | 긭              |
| G. Kerosene (No. 1)  |  |          |                      | <del> </del>                                     |             |                     | ╁╌            | <del></del>      | <del> </del>                | <del> </del>                                     |  | +-   | ++                 |               | -8             |
| H. Home heating oil (No. 2)  |  |          |                      |  | +           | <del></del>         | ╁╴            | $\dashv$         | <del> </del>                |  | <del>                                     </del> | +  | ++                 |               | =              |
| J. Heating oil (No. 4)   | -  |          |                      | <del>                                     </del> | ┰           |                     | T             |                  | <del> </del>                | <del> </del>                                     | <del>                                     </del> | 1  | ++                 |               | ج.             |
| K. Heavy heating oil (No. 6) L. Aviation fuel  |  | _        |                      | <del>                                     </del> | +           | -                   | T             |                  |                             | 1  |  | <b>—</b>   | ++                 |               | _<br>          |
| M. Motor oil   | <del>                                     </del> |          |                      |  | $\top$      |                     | $\top$        |                  |                             | <b>i</b>   |  |  | $\top$             |               | _,-            |
| N. Lubricating oil   |  | _        |                      |  | ヿ           |                     | $\top$        |                  |                             |  |  |  | $\top$             |               |                |
| P. Sewage  |  |          |                      |  |             |                     | 1             |                  |                             | -  |  |  |                    | i             |                |
| Q. Sewage sludge   |  |          |                      |  |             |                     |               |                  |                             | <u> </u>   |  |  |                    | · · · · · · · | ·<br>- = 1     |
| R. Other hazardous substances (specify)  |  |          |                      |  |             |                     | _             |                  |                             | ļ  | ··   |  |                    |               | _              |
| S. Hazardous waste (specify ID number)   |  |          |                      | <u> </u>   |             |                     | 1_            |                  |                             | <u> </u>   |  |  |                    |               |                |
| T. Mixtures (please specify)   |  |          |                      | <del>                                     </del> |             |                     | -             |                  |                             | <del> </del>                                     |  |  |                    |               | <b>-</b>       |
| U. Emergency spill tank (specify substance)  | L  |          |                      | <del>                                     </del> |             |                     | -             |                  |                             | <del> </del>                                     | ·  |  |                    | <del></del>   |                |
| V. Other petroleum products (please specify)   | <u> </u>   |          |                      | ↓  |             |                     | ┼-            |                  |                             | <del> </del>                                     | <del></del>                                      |  |                    |               | <b>-</b> £     |
| W. Other (please specify)  | <u> </u>   |          |                      | <b>-</b>   |             |                     | +-            | <del></del>      |                             | <del> </del>                                     |  | <del></del>  |                    |               | - <u>-</u>     |
| 6. Tank & Piping Construction  | Tar  | nk       | Piping               | Tai  | nk          | Piping              | 7             | <b>Fank</b>      | Piping                      | Tank   | Piping   | Tani   | K                  | Piping        | g              |
| (Mark one each for both tank & piping)  A. Bare Steel                                      |  | 7        | $\Box$               | 1  | 7           |                     | 1             |                  |                             |  |  |  | 1                  |               | <u> </u>       |
| B. Cathodically protected steel  | 1  | +        | 11                   |  |             |                     | $\top$        |                  |                             |  |  |  |                    |               | 3              |
| C. Fiberglass-coated steel   | <del>                                     </del> |          |                      | T  |             |                     |               |                  |                             |  |  |  |                    |               | નેંદે.<br>-    |
| D. Fiberglass-reinforced plastic   |  | 1        |                      | $\prod$  |             |                     |               |                  |                             |  |  |  |                    |               |                |
| E. Internally lined  |  |          |                      |  |             |                     |               |                  |                             | 1-1-1  |  | 44   |                    | $\perp \perp$ | :              |
| F. Other (please specify)  |  |          |                      |  |             |                     | ┸             |                  |                             | ļ  | · · · · · · · · · · · · · · · · · · ·            |  |                    |               | Œ. :           |
| 7. Tank & Piping Structure   | Tai  | nk       | Piping               | Ta   | nk          | Piping              | -             | Tank             | Piping                      | Tank   | C Piping   | Tan  | k                  | Pipin         | g              |
| (Mark one each for both tank & piping)  A. Single wall                                     |  | 1_       |                      |  | 1_          |                     |               | П                | П                           |  | <u>.</u> П                                       | $\perp \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$ |                    | П             |                |
| B. Double wall   |  |          |                      |  |             |                     | 1             | <u> </u>         | 1_1                         | 111  |  | $\bot$   | <u> </u>           | <u> </u>      |                |
| C. Other (please specify)  |  |          |                      | 1_   |             |                     | $\perp$       |                  |                             | <b></b>  | <u>-</u>   |  |                    |               |                |
| 8. Type of Monitoring/Detection System   | Ta   | nk       | Piping               | Ta   | nk          | Piping              | .   ∙         | Tank             | Piping                      | Tani   | k Piping   | , Tar  | ık                 | Pipin         | <b>1</b> (_    |
| (Mark all that apply for both tank & piping)   | 1 -  | $\neg$   |                      | 1 -  | 7           |                     | 1             |                  |                             |  |  | 1 –  | 7                  |               | 'es=-          |
| A. Statistical Inventory Reconciliation  | +  | +        |                      | +-+  | +           |                     | +             | ++               |                             | +++  |  | ++-  | +-                 | ++            | -              |
| B. Manual Tank Gauging   | ╁┼   | +        |                      | ++   | +           |                     | +             | +                |                             | +++  |  | ++   | +-                 | ++            | -              |
| C. Inventory Control D. Interstitial   | ╂╼┼╴   | +        |                      | +  |             |                     | +             | ++-              | ++-                         | ++-  | <del>   -</del>                                  |  | +-                 | -+-+          |                |
| E. Precision Test  | +  | +        |                      | +-+  | +           |                     | +             | +-               | -+-                         | ++-  |  | ++   | +-                 | ++            |                |
| F. Ground water observation wells  | +-+-   | +        | ++-                  | ++   | +           |                     | +             | ++-              | <del>-     -</del>          |  | -  | 11   | +                  | ++            | -              |
| G. Vapor observation wells   | ++   | +-       |                      | ++   | +-          |                     | $\top$        | <del> - -</del>  |                             |  |  | 11   | $\top$             | _             | ~              |
| H. In-tank (automatic) monitoring gauge  | <del>     </del>                                 | +        | <del>-   -</del>     | ++   | +           |                     | $\top$        | + +              | - -                         | 1-1-1  |  | 11   | 1                  |               | _              |
| J. Periodic Tank Test  | - +  | +        | •                    |  | $\top$      |                     |               |                  |                             |  |  |  |                    |               | _              |

| K. None  L. Other (please specify)  Overfill Protection (tank only) (Mark one X for each tank)  A. Yes  B. No  10. Spill Containment Around Fill Pipe (Mark one X for each tank)  A. Yes  B. No  11. Tank Status (Mark one X for each tank)  A. In-use  B. Empty less than 12 months  C. Empty 12 months or more  D. Emergency spill tank (sump)  E. Emergency backup generator tank  F. Abandoned in Place  G. Removed  H. Other (please specify)  12. If box 11B, C, or D above has been marked, indicate the estimated date last used (month/day/year)  13. Closure Information - Tank ID No.  BLDG. 744  | NO.  | TAN  | K NO.                |  | NK NO.      | TAI  | NK NO.   | TAN            | IK NO.           |
|--|--|--|----------------------|--|-------------|--|--|----------------|------------------|
| Cverfill Protection (tank only) (Mark one X for each tank)  A. Yes  B. No  10. Spill Containment Around Fill Pipe (Mark one X for each tank)  A. Yes  B. No  11. Tank Status (Mark one X for each tank)  A. In-use B. Empty less than 12 months C. Empty 12 months or more D. Emergency spill tank (sump) E. Emergency backup generator tank F. Abandoned in Place G. Removed H. Other (please specify)  12. If box 11B, C, or D above has been marked, indicate the estimated date last used (month/day/year)  13. Closure Information - Tank ID No. BLDG. T44  A. Date abandoned in place B. Date taken temporarily out of service C. Date removed D. Date of Sale or Transfer E. TMS # (if applicable) F. ISRA # (if applicable)  ECTION C - FINANCIAL RESPONSIBILITY  oes this facility have a Financial Responsibility Assurance lease list the appropriate financial information below:  Type  Type  Effective Date  Expiration Date  ECTION D - MONITORING SYSTEMS  Des this facility have a release detection monitoring system (No*, please be aware that the facility must meet the appropriate financial information systems for if "Yes", are the systems properly operated and main 1. Does this facility have cathodic protection systems for if "Yes", are the systems properly operated and main 2. Are the performance claims and documentation of monurs pursuant to N.J.A.C. 7:14B-5?  3. Are the proper monitoring, testing, sampling renair a pursuant to N.J.A.C. 7:14B-5?  3. Are the proper monitoring, testing, sampling renair a pursuant to N.J.A.C. 7:14B-5?  3. Are the proper monitoring, testing, sampling renair a content of the pursuant to N.J.A.C. 7:14B-5?  3. Are the proper monitoring, testing, sampling renair a content of the pursuant to N.J.A.C. 7:14B-5?  3. Are the proper monitoring, testing, sampling renair a content of the pursuant to N.J.A.C. 7:14B-5?  3. Are the proper monitoring, testing, sampling renair a content of the pursuant to N.J.A.C. 7:14B-5?  3. Are the proper monitoring, testing, sampling renair a content of the pursuant to N.J.A.C. 7:14B-5?    | Piping   | Tank   | Piping               | Tank   | Piping      | Tank   | Piping   | Tank           | Piping           |
| (Mark one X for each tank)  A. Yes  B. No  10. Spill Containment Around Fill Pipe (Mark one X for each tank)  A. Yes  B. No  11. Tank Status (Mark one X for each tank)  A. In-use  B. Empty less than 12 months  C. Empty 12 months or more  D. Emergency spill tank (sump)  E. Emergency spill tank (sump)  E. Emergency backup generator tank  F. Abandoned in Place  G. Removed  H. Other (please specify)  12. If box 11B, C, or D above has been marked, indicate the estimated date last used (month/day/year)  3. Closure Information - Tank ID No.  BLDG: 744  A. Date abandoned in place  B. Date taken temporarity out of service  C. Date removed  D. Date of Sale or Transfer  E. TMS # (if applicable)  F. ISRA # (if applicable)  ECTION C - FINANCIAL RESPONSIBILITY  Les this facility have a Financial Responsibility Assurance passe list the appropriate financial information below:  Type  / / /  Effective Date  Expiration Date  CCTION D - MONITORING SYSTEMS  Les this facility have a release detection monitoring system who, please be aware that the facility must meet the appropriate financial information below:  CCTION E - RECORDKEEPING/COMPLIANCE  asse answer all the questions in this section on a facility b  1. Does this facility have cathodic protection systems for if "Yes", are the systems properly operated and main pursuant to N.J.A.C. 7:14B-5?  3. Are the proper monitoring, testing, sampling repair a pursuant to N.J.A.C. 7:14B-5?  3. Are the proper monitoring, testing, sampling repair a pursuant to N.J.A.C. 7:14B-5?  3. Are the proper monitoring, testing, sampling repair a sampling rep |  | ping Tank Piping Tank Piping Tank Piping         |                      |  | $\Box$      |  |  |                |                  |
| B. No  10. Spill Containment Around Fill Pipe (Mark one X for each tank) A. Yes B. No  11. Tank Status (Mark one X for each tank) A. In-use B. Empty less than 12 months C. Empty 12 months or more D. Emergency spill tank (sump) E. Emergency backup generator tank F. Abandoned in Place G. Removed H. Other (please specify)  2. If box 11B, C, or D above has been marked, indicate the estimated date last used (month/day/year)  3. Closure Information - Tank ID No. BUDG. 744  A. Date abandoned in place B. Date taken temporarity out of service C. Date removed D. Date of Sale or Transfer E. TMS # (if applicable) F. ISRA # (if applicable) F. ISRA # (if applicable)  ECTION C - FINANCIAL RESPONSIBILITY  es this facility have a Financial Responsibility Assurance hase list the appropriate financial information below:  Type  Type  Type  Type  Type  CTION D - MONITORING SYSTEMS  set his facility have a release detection monitoring system for, please be aware that the facility must meet the appropriate formance claims and documentation of me pursuant to N.J.A.C. 7:14B-5? 3. Are the proper monitoring, testing, sampling, renair a pursuant to N.J.A.C. 7:14B-5? 3. Are the proper monitoring, testing, sampling, renair a pursuant to N.J.A.C. 7:14B-5? 3. Are the proper monitoring, testing, sampling, renair a pursuant to N.J.A.C. 7:14B-5? 3. Are the proper monitoring, testing, sampling, renair a pursuant to N.J.A.C. 7:14B-5? 3. Are the proper monitoring, testing, sampling, renair a pursuant to N.J.A.C. 7:14B-5? 3. Are the proper monitoring, testing, sampling, renair a pursuant to N.J.A.C. 7:14B-5? 4. The proper monitoring testing, sampling, renair a pursuant to N.J.A.C. 7:14B-5? 4. Are the proper monitoring, testing, sampling, renair a pursuant to N.J.A.C. 7:14B-5? 4. Are the proper monitoring, testing, sampling, renair a pursuant to N.J.A.C. 7:14B-5? 4. Are the proper monitoring, testing, sampling, renair a pursuant to N.J.A.C. 7:14B-5?  |  |  |                      |  |             |  | <del></del>                                      | <del> </del> - |                  |
| O. Spill Containment Around Fill Pipe (Mark one X for each tank) A. Yes B. No 1. Tank Status (Mark one X for each tank) A. In-use B. Empty less than 12 months C. Empty 12 months or more D. Emergency spill tank (sump) E. Emergency backup generator tank F. Abandoned in Place G. Removed H. Other (please specify)  If box 11B, C, or D above has been marked, indicate the estimated date last used (month/day/year)  Closure Information - Tank ID No. BLDG. 744  A. Date abandoned in place B. Date taken temporarity out of service C. Date removed D. Date of Sale or Transfer E. TMS # (if applicable) F. ISRA # (if applicable)  CTION C - FINANCIAL RESPONSIBILITY  sthis facility have a Financial Responsibility Assurance ase list the appropriate financial information below:  Type  //   | [  | г  | 7                    | ,  | <del></del> |  |  |                |                  |
| (Mark one X for each tank) A. Yes B. No 1. Tank Status (Mark one X for each tank) A. In-use B. Empty less than 12 months C. Empty 12 months or more D. Emergency spill tank (sump) E. Emergency backup generator tank F. Abandoned in Place G. Removed H. Other (please specify) If box 11B, C, or D above has been marked, indicate the estimated date last used (month/day/year) Closure Information - Tank ID No. BLDG, 744  A. Date abandoned in place B. Date taken temporarily out of service C. Date removed D. Date of Sale or Transfer E. TMS # (if applicable) F. ISRA # (if applicable)  CTION C - FINANCIAL RESPONSIBILITY Is this facility have a Financial Responsibility Assurance se list the appropriate financial information below:  Type  // / // Expiration Date  TION D - MONITORING SYSTEMS  this facility have a release detection monitoring system in the facility must meet the appropriate financial information below:  TION E - RECORDKEEPING/COMPLIANCE e answer all the questions in this section on a facility be Does this facility have cathodic protection systems for if "Yes", are the systems properly operated and main Are the performance claims and documentation of mours of the proper monitoring, testing, sampling renair a Are the performance claims and documentation of mours and the proper monitoring, testing, sampling renair a Are the proper monitoring, testing, sampling renair a Are the performance claims and documentation of mours and the proper monitoring, testing, sampling renair a Are the proper monitoring, testing, sampling renair a Are the performance claims and documentation of mours and the proper monitoring, testing, sampling renair a Are the performance claims and documentation of mours and the performance claims and documentation of mours and the proper monitoring, testing, sampling renair and the performance claims and documentation of mours and the per |  |  | <del></del>          | <del>                                     </del> |             |  | <del>-  </del>                                   | <u> </u>       |                  |
| B. No  11. Tank Status (Mark one X for each tank) A. In-use B. Empty less than 12 months C. Empty 12 months or more D. Emergency spill tank (sump) E. Emergency backup generator tank F. Abandoned in Place G. Removed H. Other (please specify) 2. If box 11B, C, or D above has been marked, indicate the estimated date last used (month/day/year) 3. Closure Information - Tank ID No. BLDG, 744  A. Date abandoned in place B. Date taken temporarily out of service C. Date removed D. Date of Sale or Transfer E. TMS # (if applicable) F. ISRA # (if applicable)  F. ISRA # (if applicable)  CTION C - FINANCIAL RESPONSIBILITY  as this facility have a Financial Responsibility Assurance as list the appropriate financial information below:  Type  Ty |  | <b>-</b>   | <del></del>          |  | <del></del> | <del>                                     </del> | <del></del>                                      |                |                  |
| A. In-use B. Empty less than 12 months C. Empty 12 months or more D. Emergency spill tank (sump) E. Emergency backup generator tank F. Abandoned in Place G. Removed H. Other (please specify) 2. If box 11B, C, or D above has been marked, indicate the estimated date last used (month/day/year) 3. Closure Information - Tank ID No. BLDG. 744  A. Date abandoned in place B. Date taken temporarily out of service C. Date removed D. Date of Sale or Transfer E. TMS # (if applicable) F. ISRA # (if applicable)  F. ISRA # (if applicable)  ECTION C - FINANCIAL RESPONSIBILITY  Les this facility have a Financial Responsibility Assurance last the appropriate financial information below:  Type  // // Effective Date  Expiration Date  CTION D - MONITORING SYSTEMS  as this facility have a release detection monitoring system wor, please be aware that the facility must meet the appropriate financial information on a facility by the same answer all the questions in this section on a facility by the same answer all the questions in this section on a facility by the same answer all the questions in this section on a facility by the performance claims and documentation of me pursuant to N.J.A.C. 7:14B-5?  3. Are the performance claims and documentation of me pursuant to N.J.A.C. 7:14B-5?  3. Are the proper monitoring, testing, sampling, repair a  |  | $-\Gamma$  | ]                    |  | ]           |  | <u></u>  | <u> </u>       | ٦                |
| C. Empty 12 months or more  D. Emergency spill tank (sump)  E. Emergency backup generator tank  F. Abandoned in Place G. Removed H. Other (please specify)  2. If box 11B, C, or D above has been marked, indicate the estimated date last used (month/day/year)  3. Closure Information - Tank ID No.  BLDG. 744  A. Date abandoned in place B. Date taken temporarily out of service C. Date removed D. Date of Sale or Transfer E. TMS # (if applicable)  F. ISRA # (if applicable)  F. ISRA # (if applicable)  ECTION C - FINANCIAL RESPONSIBILITY  es this facility have a Financial Responsibility Assurance base list the appropriate financial information below:  Type  / / / //  Effective Date  Expiration Date  CTION D - MONITORING SYSTEMS  as this facility have a release detection monitoring system who, please be aware that the facility must meet the appropriate formation in this section on a facility because answer all the questions in this section on a facility because answer all the questions in this section on a facility because answer all the questions in this section on a facility because answer all the questions in this section on a facility because answer all the questions in this section on a facility because answer all the questions in this section on a facility because and documentation of menor pursuant to N.J.A.C. 7:148-5?  3. Are the performance claims and documentation of menor pursuant to N.J.A.C. 7:148-5?  3. Are the proper monitoring, testing, sampling repair and the proper monitoring, testing, sampling repair and the proper monitoring, testing, sampling repair and the pursuant to N.J.A.C. 7:148-5?  | iping 1  | rank   | Piping               | Tank   | Piping      | Tank   | Piping   | Tank           | Piping           |
| D. Emergency spill tank (sump)  E. Emergency backup generator tank  F. Abandoned in Place  G. Removed  H. Other (please specify)  2. If box 11B, C, or D above has been marked, indicate the estimated date last used (month/day/year)  3. Closure Information - Tank ID No.  BLDG, 744  A. Date abandoned in place  B. Date taken temporarily out of service  C. Date removed  D. Date of Sale or Transfer  E. TMS # (if applicable)  F. ISRA # (if applicable)  F. ISRA # (if applicable)  ECTION C - FINANCIAL RESPONSIBILITY  es this facility have a Financial Responsibility Assurance base list the appropriate financial information below:  Type  / / / / //  Effective Date  Expiration Date  CTION D - MONITORING SYSTEMS  es this facility have a release detection monitoring system who, please be aware that the facility must meet the appropriate formation in this section on a facility because answer all the questions in this section on a facility because answer all the questions in this section on a facility because answer all the questions in this section on a facility because answer all the questions in this section on a facility because answer all the questions in this section on a facility because answer all the questions in this section on a facility because and documentation of menors a |  | <del>                                     </del> | _                    |  |             | ╂┼┼  |  |                | $\Box$           |
| E. Emergency backup generator tank  F. Abandoned in Place  G. Removed  H. Other (please specify)  2. If box 11B, C, or D above has been marked, indicate the estimated date last used (month/day/year)  Closure Information - Tank ID No.  BLDG, 744  A. Date abandoned in place  B. Date taken temporarity out of service  C. Date removed  D. Date of Sale or Transfer  E. TMS # (if applicable)  F. ISRA # (if applicable)  CTION C - FINANCIAL RESPONSIBILITY  Is this facility have a Financial Responsibility Assurance ase list the appropriate financial information below:  Type  Type  Type  Type  Type  Type  To, please be aware that the facility must meet the appropriate financial information below:  CTION E - RECORDKEEPING/COMPLIANCE  This facility have a release detection monitoring system for please of the questions in this section on a facility belong the proper mance claims and documentation of me pursuant to N.J.A.C. 7:14B-5?  Are the performance claims and documentation of me pursuant to N.J.A.C. 7:14B-5?  Are the proper monitoring, testing, sampling, repair a pursuant to N.J.A.C. 7:14B-5?   |  |  | ++-                  |  |             | ╂┼┼  |  |                |                  |
| F. Abandoned in Place G. Removed H. Other (please specify)  2. If box 11B, C, or D above has been marked, indicate the estimated date last used (month/day/year)  3. Closure Information - Tank ID No. BLDG. 744  A. Date abandoned in place B. Date taken temporarily out of service C. Date removed D. Date of Sale or Transfer E. TMS # (if applicable)  F. ISRA # (if applicable)  CTION C - FINANCIAL RESPONSIBILITY  as this facility have a Financial Responsibility Assurance ase list the appropriate financial information below:  Type  Typ |  |  |                      |  |             | ╂╼┼╌┼╌   | -+   |                |                  |
| G. Removed H. Other (please specify)  2. If box 11B, C, or D above has been marked, indicate the estimated date last used (month/day/year)  3. Closure Information - Tank ID No.  BLDG. 749  A. Date abandoned in place B. Date taken temporarity out of service C. Date removed D. Date of Sale or Transfer E. TMS # (if applicable)  F. ISRA # (if applicable)  F. ISRA # (if applicable)  CTION C - FINANCIAL RESPONSIBILITY  es this facility have a Financial Responsibility Assurance has elist the appropriate financial information below:  Type  //   |  |  |                      |  |             | <del>                                     </del> | <del></del>                                      |                | -+-              |
| H. Other (please specify)  2. If box 11B, C, or D above has been marked, indicate the estimated date last used (month/day/year)  3. Closure Information - Tank ID No. BLDG. 749  A. Date abandoned in place  B. Date taken temporarily out of service  C. Date removed  D. Date of Sale or Transfer  E. TMS # (if applicable)  F. ISRA # (if applicable)  ECTION C - FINANCIAL RESPONSIBILITY  est this facility have a Financial Responsibility Assurance has list the appropriate financial information below:  Type  ////  Effective Date  Expiration Date  CTION D - MONITORING SYSTEMS  Is this facility have a release detection monitoring system to be answer all the questions in this section on a facility be answer all the questions in this section on a facility be a pursuant to N.J.A.C. 7:14B-5?  3. Are the performance claims and documentation of many pursuant to N.J.A.C. 7:14B-5?  3. Are the proper monitoring, testing, sampling, repair a pursuant to N.J.A.C. 7:14B-5?   |  |  |                      | II   |             |  | <del></del>                                      |                | <del>- - -</del> |
| 2. If box 11B, C, or D above has been marked, indicate the estimated date last used (month/day/year)  3. Closure Information - Tank ID No. BLDG. 744  A. Date abandoned in place  B. Date taken temporarily out of service  C. Date removed  D. Date of Sale or Transfer  E. TMS # (if applicable)  F. ISRA # (if applicable)  CTION C - FINANCIAL RESPONSIBILITY  es this facility have a Financial Responsibility Assurance ase list the appropriate financial information below:  Type  // // // // // // // // // // // // //  |  |  |                      |  |             |  |  |                | - -              |
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| Iast used (month/day/year)  3. Closure Information - Tank ID No.  BLDG. 744  A. Date abandoned in place  B. Date taken temporarily out of service  C. Date removed  D. Date of Sale or Transfer  E. TMS # (if applicable)  F. ISRA # (if applicable)  ECTION C - FINANCIAL RESPONSIBILITY  es this facility have a Financial Responsibility Assurance hase list the appropriate financial information below:  Type  // /  Effective Date  Expiration Date  CTION D - MONITORING SYSTEMS  es this facility have a release detection monitoring system to be aware that the facility must meet the appropriate answer all the questions in this section on a facility be answer  | ear Mo   | . Day  | Year                 | Mo. Dav  | Year        | No Des   |  |                |                  |
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| A. Date abandoned in place  B. Date taken temporarily out of service  C. Date removed  D. Date of Sale or Transfer  E. TMS # (if applicable)  F. ISRA # (if applicable)  CCTION C - FINANCIAL RESPONSIBILITY  es this facility have a Financial Responsibility Assurance hase list the appropriate financial information below:  Type  Type  Type  CTION D - MONITORING SYSTEMS  Is this facility have a release detection monitoring system to be aware that the facility must meet the appropriate in this section on a facility be answer all the questions in this section on a facility be answer all the questions in this section on a facility be a fire "Yes", are the systems properly operated and main accordance in the proper monitoring, testing, sampling, repair a pursuant to N.J.A.C. 7:148-5?  3. Are the proper monitoring, testing, sampling, repair and documentation of meaning and documentat | <del>-                                    </del> | TANK   | 10                   | <u> </u>   | 1111        | 111  |  | 111            |                  |
| A. Date abandoned in place  B. Date taken temporarity out of service  C. Date removed  D. Date of Sale or Transfer  E. TMS # (if applicable)  F. ISRA # (if applicable)  SCTION C - FINANCIAL RESPONSIBILITY  es this facility have a Financial Responsibility Assurance hase list the appropriate financial information below:  Type  // //  Effective Date  Expiration Date  CTION D - MONITORING SYSTEMS  Is this facility have a release detection monitoring system to ", please be aware that the facility must meet the appropriate or please the systems properly operated and main for "Yes", are the systems properly operated and main pursuant to N.J.A.C. 7:148-5?  3. Are the proper monitoring, testing, sampling, repair a proper of the systems of the proper monitoring, testing, sampling, repair a proper of the systems of the proper monitoring, testing, sampling, repair a proper of the systems of the proper monitoring, testing, sampling, repair a proper of the systems of the proper monitoring, testing, sampling, repair a proper of the systems of the proper monitoring, testing, sampling, repair a proper of the systems of the proper monitoring, testing, sampling, repair a proper of the systems of the proper monitoring, testing, sampling, repair a proper of the systems of the systems of the systems of the systems and documentation of the pursuant to N.J.A.C. 7:148-5?   | <b>Š</b>   | IANK   | NO.                  | TANK   | NO.         | TAN  | K NO.  | TANK           | NO.              |
| A. Date abandoned in place  B. Date taken temporarily out of service  C. Date removed  D. Date of Sale or Transfer  E. TMS # (if applicable)  F. ISRA # (if applicable)  CTION C - FINANCIAL RESPONSIBILITY  Destinate the appropriate financial Responsibility Assurance as list the appropriate financial information below:  Type  // //  Effective Date Expiration Date  CTION D - MONITORING SYSTEMS  Is this facility have a release detection monitoring system or, please be aware that the facility must meet the appropriate answer all the questions in this section on a facility because answer all the questions in this section on a facility because the performance claims and documentation of menurous pursuant to N.J.A.C. 7:14B-5?  B. Are the proper monitoring, testing, sampling, repair as a content of the performance claims and documentation of menurous pursuant to N.J.A.C. 7:14B-5?  B. Are the proper monitoring, testing, sampling, repair as a content of the performance claims and documentation of menurous pursuant to N.J.A.C. 7:14B-5?  B. Are the proper monitoring, testing, sampling, repair as a content of the performance claims and documentation of menurous pursuant to N.J.A.C. 7:14B-5?  B. Are the proper monitoring, testing, sampling, repair as a content of the pursuant to N.J.A.C. 7:14B-5?   | par Mo   | . Dav  | Year                 |  |             |  |  |                |                  |
| D. Date of Sale or Transfer  E. TMS # (if applicable)  F. ISRA # (if applicable)  CTION C - FINANCIAL RESPONSIBILITY  Is this facility have a Financial Responsibility Assurance ase list the appropriate financial information below:  Type  / / / /  Effective Date Expiration Date  CTION D - MONITORING SYSTEMS  Is this facility have a release detection monitoring system of please be aware that the facility must meet the appropriate answer all the questions in this section on a facility because the systems properly operated and main Are the performance claims and documentation of me pursuant to N.J.A.C. 7:14B-5?  Are the proper monitoring, testing, sampling, repair as a content of the proper monitoring, testing, sampling, repair as a content of the proper monitoring, testing, sampling, repair as a content of the proper monitoring, testing, sampling, repair as a content of the proper monitoring, testing, sampling, repair as a content of the proper monitoring, testing, sampling, repair as a content of the proper monitoring, testing, sampling, repair as a content of the proper monitoring, testing, sampling, repair as a content of the proper monitoring, testing, sampling, repair as a content of the proper monitoring, testing, sampling, repair as a content of the proper monitoring, testing, sampling, repair as a content of the proper monitoring, testing, sampling, repair as a content of the proper monitoring, testing, sampling, repair as a content of the proper monitoring, testing, sampling, repair as a content of the proper monitoring, testing, sampling, repair as a content of the proper monitoring, testing, sampling, repair as a content of the proper monitoring, testing, sampling, repair as a content of the proper monitoring, testing, sampling, repair as a content of the proper monitoring, testing, sampling, repair as a content of the proper monitoring, testing, sampling, repair as a content of the proper monitoring, testing, sampling, repair as a content of the proper monitoring testing the proper monitoring testing t |  |  | 1 1 1                | Mo. Day  | Year        | Mo. Day  | Year   | Mo. Day        | Year             |
| D. Date of Sale or Transfer  E. TMS # (if applicable)  F. ISRA # (if applicable)  CTION C - FINANCIAL RESPONSIBILITY  Is this facility have a Financial Responsibility Assurance ase list the appropriate financial information below:  Type  // //  Effective Date Expiration Date  CTION D - MONITORING SYSTEMS  Is this facility have a release detection monitoring system or, please be aware that the facility must meet the appropriate answer all the questions in this section on a facility because the systems properly operated and main Are the performance claims and documentation of me pursuant to N.J.A.C. 7:14B-5?  Are the proper monitoring, testing, sampling, repair as a section of the proper monitoring, testing, sampling, repair as a section of the proper monitoring, testing, sampling, repair as a section of the proper monitoring, testing, sampling, repair as a section of the proper monitoring, testing, sampling, repair as a section of the proper monitoring, testing, sampling, repair as a section of the proper monitoring, testing, sampling, repair as a section of the proper monitoring, testing, sampling, repair as a section of the proper monitoring, testing, sampling, repair as a section of the proper monitoring, testing, sampling, repair as a section of the proper monitoring, testing, sampling, repair as a section of the proper monitoring, testing, sampling, repair as a section of the proper monitoring, testing, sampling, repair as a section of the proper monitoring, testing, sampling, repair as a section of the proper monitoring, testing, sampling, repair as a section of the proper monitoring, testing, sampling, repair as a section of the proper monitoring, testing, sampling, repair as a section of the proper monitoring, testing, sampling, repair as a section of the proper monitoring testing, sampling, repair as a section of the proper monitoring testing tes | 111  |  | 1   1                | <del></del>                                      | 1 1 1       |  | +  | - !   !        |                  |
| D. Date of Sale or Transfer  E. TMS # (if applicable)  F. ISRA # (if applicable)  CTION C - FINANCIAL RESPONSIBILITY  as this facility have a Financial Responsibility Assurance ase list the appropriate financial information below:  Type  / / / //  Effective Date Expiration Date  CTION D - MONITORING SYSTEMS  s this facility have a release detection monitoring system o", please be aware that the facility must meet the appropriate answer all the questions in this section on a facility be a possible facility have cathodic protection systems for if "Yes", are the systems properly operated and main are the performance claims and documentation of me pursuant to N.J.A.C. 7:14B-5?  3. Are the proper monitoring, testing, sampling, repair as a content of the performance claims and documentation of me pursuant to N.J.A.C. 7:14B-5?  | 98   | 1 1  | <del>' ' ' '  </del> |  |             |  |  | -              | 1111             |
| CTION C - FINANCIAL RESPONSIBILITY  as this facility have a Financial Responsibility Assurance ase list the appropriate financial information below:  Type  / / / Effective Date Expiration Date  CTION D - MONITORING SYSTEMS  Is this facility have a release detection monitoring system or, please be aware that the facility must meet the appropriate answer all the questions in this section on a facility because the systems properly operated and main are the performance claims and documentation of me pursuant to N.J.A.C. 7:14B-5?  Are the proper monitoring, testing, sampling, repair as a series of the systems properly operated and main pursuant to N.J.A.C. 7:14B-5?  Are the proper monitoring, testing, sampling, repair as a series of the systems properly operated and main pursuant to N.J.A.C. 7:14B-5?   |  | <del>                                     </del> | <del></del>          |  |             | -!- -  | <del>                                     </del> |                | 111              |
| es this facility have a Financial Responsibility Assurance hase list the appropriate financial information below:  Type  Type  Effective Date  Expiration Date  CTION D - MONITORING SYSTEMS  Is this facility have a release detection monitoring system to please be aware that the facility must meet the appropriate answer all the questions in this section on a facility but to be a system of the proper to be a system of the performance claims and documentation of meaning and to N.J.A.C. 7:14B-5?  3. Are the proper monitoring, testing, sampling, repair as a system of the proper monitoring, testing, sampling, repair as a system of the proper monitoring, testing, sampling, repair as a system of the proper monitoring, testing, sampling, repair as a system of the proper monitoring, testing, sampling, repair as a system of the proper monitoring, testing, sampling, repair as a system of the proper monitoring, testing, sampling, repair as a system of the proper monitoring, testing, sampling, repair as a system of the proper monitoring, testing, sampling, repair as a system of the proper monitoring, testing, sampling, repair as a system of the proper monitoring, testing, sampling, repair as a system of the proper monitoring, testing, sampling, repair as a system of the proper monitoring, testing, sampling, repair as a system of the proper monitoring, testing, sampling, repair as a system of the proper monitoring testing testi | <del></del>                                      | <u> </u>   |                      |  |             | 111  | 1111   |                | 111              |
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| Effective Date Expiration Date  ECTION D - MONITORING SYSTEMS  es this facility have a release detection monitoring system  No", please be aware that the facility must meet the appro-  ECTION E - RECORDKEEPING/COMPLIANCE  ase answer all the questions in this section on a facility be  1. Does this facility have cathodic protection systems for  If "Yes", are the systems properly operated and main  2. Are the performance claims and documentation of me  pursuant to N.J.A.C. 7:14B-5?  3. Are the proper monitoring, testing, sampling, repair a   | Mechanis   | sm as i  | required in          | 40 CFR   | 280?        | ]YES   | NO   |                |                  |
| es this facility have a release detection monitoring system No", please be aware that the facility must meet the approach of the complete of t |  |  | Ca                   | arrier / ls:                                     | suing Age   | ncy  |  |                |                  |
| es this facility have a release detection monitoring system No", please be aware that the facility must meet the appro- ECTION E - RECORDKEEPING/COMPLIANCE ase answer all the questions in this section on a facility but 1. Does this facility have cathodic protection systems for If "Yes", are the systems properly operated and main 2. Are the performance claims and documentation of me pursuant to N.J.A.C. 7:148-5? 3. Are the proper monitoring, testing, sampling, repair a   |  |  |                      |  |             | <del></del>                                      | \$   |                |                  |
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| Please answer all the questions in this section on a facility by  1. Does this facility have cathodic protection systems for if "Yes", are the systems properly operated and main an experimentation of magnetic pursuant to N.J.A.C. 7:14B-5?  3. Are the proper monitoring, testing, sampling, repair as   | n which is<br>opriate de                         | : <b></b>  | Policy Nun           | nber   |             | ·  |  | ount<br>ES     | N                |
| <ul> <li>If "Yes", are the systems properly operated and main</li> <li>Are the performance claims and documentation of me pursuant to N.J.A.C. 7:14B-5?</li> <li>Are the proper monitoring, testing, sampling, repair a</li> </ul>   | •  |  |                      |  |             |  |  |                |                  |
| If "Yes", are the systems properly operated and main  2. Are the performance claims and documentation of me pursuant to N.J.A.C. 7:14B-5?  3. Are the proper monitoring, testing, sampling, repair a   | asis. Any  | one ta   | nk not in c          | ompliano   | e require   | s a "N∩" :                                       | anewor (   | the action     |                  |
| <ol> <li>Are the performance claims and documentation of me pursuant to N.J.A.C. 7:14B-5?</li> <li>Are the proper monitoring, testing, sampling, repair a</li> </ol>   | r all steel                                      | tanks a  | and piping           | ?  | o roquire.  | sa NO  |  | the entire     |                  |
| pursuant to N.J.A.C. 7:14B-5?  3. Are the proper monitoring, testing, sampling, repair a   |  |  | 4                    |  | 5?          |  |  | ES H           | NO<br>NO         |
| 3. Are the proper monitoring, testing, sampling, repair a  | onitoring s                                      | ystems   | maintaine            | od by the  | owner or    | operator   |  | =              |                  |
| N.I.A.C. 7:1/D 5 and 60  |  |  |                      |  |             |  |  | ES             | NO               |
| and a second of  |  |  |                      |  | rsuant to   |  |  | s 🗀            | NO               |
| 4. Is the proper Release Response Plan kept on-site pu   | rsuant to I                                      | N.J.A.C  | . 7:14B-51           | <b>&gt;</b>                                      |             |  |  |                | NO               |
| . The state of the | OMO OUM  |  | AI I A A -           |  |             |  |  | s H            | NO<br>NO         |
| 6. Have all Fill Ports been permanently marked as per A  | .PI #1637  | pursua   | int to N.J.A         | .C. 7:14   | B-5?        |  |  | s H            | NO<br>NO         |

|  | `  | `\   | p + + + + +4  |
|--|--|--|---|
|  | IMPORTANT  | INFORMATION  |   |
| FEE:   | Please make checks payble to: "Treasurer, processing. Registration and Billing Schedul All Initial Registration fees are \$100 per faci  |  | etum envelope will expedite   |
| PENALTY:   |  | underground storage tank to comply with any I  | equirement of the State UST   |
| EMERGENCY: UPGRADE EXEMPTION:  | If a discharge or spill occurs, the NJDEP Hot:<br>Residential heating oil underground storage  | tline at (609) 292-7172 must be called IMMEI tanks are exempt from all upgrade requiremen  |   |
|  | DATES TO KNO   | W (critical deadlines)   |   |
| December 22, 1988 -  | <ul> <li>All new federally regulated tank systems n</li> </ul>   | nust have cathodic protection and spill/overfil  | l protection.   |
| September 4, 1990 -  | <ul> <li>All new State-only regulated tank systems</li> </ul>  | must have cathodic protection and spill/overf  | ill protection.   |
| December 22, 1990 -  | <ul> <li>All federally regulated piping must have b</li> </ul>   | egun leak detection.   |   |
| February 19, 1993 -  | <ul> <li>All federally regulated tank systems must:</li> </ul>   | maintain financial responsibility assurance.   |   |
| December 22, 1993 -  | <ul> <li>All federally regulated tank systems must</li> </ul>  | have begun leak detection.   |   |
| December 22, 1998 -  | <ul> <li>All regulated tanks shall install cathodic process.</li> </ul>  | rotection and spill/overfill protection.   | · · · · · · · · · · · · · · · · · · ·   |
|  | CERTI  | FICATIONS  | :   |
|  | ON SIGNING CERTIFICATION NO. 2 IS THE 2 NEED NOT BE SIGNED. (If different per  |  |   |
| CERTIFICATION N  | 0.1:   |  |   |
| Must be signed by the  | highest ranking individual at the facility w   | ith overall responsibility   |   |
| knowledge, informatio inaccurate or incomple do not believe to be truthe penalties."   | ty of law that the information provided on and belief. I am aware that there are signer information and that I am committing a se. I am also aware that if I knowingly directly the second of the seco | gnificant civil and criminal penalties for crime of the fourth degree if I make a wrect or authorize the violation of any statu  | knowingly submitting false, itten false statement which I   |
| DIRECTOR   | PUBLIC WORKS   | (Signature)  | <del>38</del>   |
|  | (Title)  | (Date)   | <b>V</b> .  |
| <b>CERTIFICATION N</b>   | O. 2:  |  | •   |
| <ul><li>For a partnership or s</li><li>For a municipality, S</li></ul>   | ows: a principal executive officer of at least the sole proprietorship, by a general partner or tate, Federal or other public agency, by eit in indicated above, by the person with lega   | the proprietor, respectively her a principal executive officer or rankir   | ng elected official   |
| documents, and that ba<br>submitted information<br>submitting false, inacc<br>statement which I do n<br>personally liable for th | NA   | mediately responsible for obtaining the ir<br>re that there are significant civil and crim<br>I am committing a crime of the fourth de-<br>at if I knowingly direct or authorize the | nformation. I believe that the<br>ninal penalties for knowingly<br>gree if I make a written false |
| 4  | (Typed / Printed Name)   | (Signature)  | •   |

(Title) CERTIFICATION NO. 3:

If applicable, must be signed by the individual who is certified to perform services.

"I certify under penalty of law that the information provided in this document is true, accurate and complete to the best of my knowledge, information and belief. I am aware that there are significant civil and criminal 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 repulties."

(Date)

| CHARLES APPLEBY ENV. PROTECTION SP      | EUAUST /2 /2 7/24/98        |
|---|-----------------------------|
| (Typed / Printed Name) / S. ARM (Title) | (Signature) 2056 (Date)     |
| (Name of Firm, if applicable)           | (N.J. Certification Number) |

UST-021 (9/94)

# APPENDIX B SITE ASSESSMENT SUMMARY

= 4

#### **New Jersey Department of Environmental Protection**

#### **Site Remediation Program**

### **UST Site/Remedial Investigation Report Certification Form**

| A. Facility Name: U.S. Army Fort Monmouth New Jersey   |
|--|
| Facility Street Address: Directorate of Public Works Building 173  |
| Municipality: Eatontown County: Monmouth   |
| Block: Telephone Number : 732-532-6224   |
| B. Owner (RP)'s Name:  |
| Street Address: City :   |
| State:Zip:Telephone Number :   |
| C. (Check as appropriate)  Site Investigation Report (SIR) \$500 Fee Remedial Investigation Report (RIR) \$1000 Fee  X NA – Federal Agreement  D. (Complete all that apply)  Assigned Case Manager:  Ian Curtis, Federal Case Manager  UST Registration Number: 81533-118  [7 digits]  Incident Report Number _ • _ • _ • _ (10 or 12 digits)  Tank Closure Number: Federal Case Manager   |
| The attached report conforms to the specific reporting requirements of N-J.A.C. 7:26E  |
| F. Certification by the Responsible Party(ies) of the Facility:  The following certification shall be signed [according to the requirements of N.J.A.C. 7:14B-1.7(b)]as follows:  1. For a Corporation by a person authorized by a resolution of the board of directors to sign the document. A copy of the resolution, certified as a true copy by the secretary of the corporation, shall be submitted along with the certification; or  2. For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or  3. For a municipality, State, federal or other public agency by either a principal executive officer or ranking elected Official.  "I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attached documents, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate, or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties." |
| Name (Print or Type): James Ott  Title: Directorate of Public Works  |
| Signature: Signature:  |
| Company Name: U.S. Army Fort Monmouth Date: 17/99  |

APPENDIX C
WASTE MANIFEST

A leaffer

|           |  |  |                           |                          |                            |                  | •                  | 1.00          |
|-----------|--|--|---------------------------|--------------------------|----------------------------|------------------|--------------------|---------------|
|           |  | PET  | LORCO TROLEUM SERVICES    |                          |                            |                  |                    |               |
|           | NON-HAZARDOUS<br>WASTE MANIFEST  | 1. Generator's US EPA  |                           | Manifest<br>Document No. | 2. Page 1                  | NHZ              | 0097               | 84            |
| •         | 3. Generator's Name and Mailing Address  SCORP 173 ATT X FILL  4. Generator's Phone (73)   | WJ321005<br>1-1271005 E<br>1-120-EU<br>1107703   |                           |                          | ·                          | IIIIE            |                    |               |
|           | 5. Transporter 1 Company Name  | 6.   | US EPA ID N               |                          | A. Transport               | ter's Phone      | 900                | Å             |
|           | 7. Transporter 2 Company Name  | 8.<br>   | US EPA ID N               | <u></u>                  | B. Transport C. Facility's | ter's Phone      |                    |               |
|           | 9. Designated Facility Name and Site Address LIONETTI OIL RECOVERY CO DUNYONGO PERSECUAKE 386 010 DRIDGE MI DOGGT  | THE DEA FORCE  |                           | SYCS                     | <u> </u>                   | 721-090          |                    |               |
|           | 11. Waste Shipping Name and Description  | •  |                           |                          | 12.                        | Containers       | 13.<br>Total       | 14.<br>Unit   |
| l         | i  |  |                           |                          | 1                          | No. Type         | Quantity           | Wt/Vol        |
|           | a. DETUNCTION OF CONTROL THE   | ALTERNATION OF THE STATE OF THE |                           |                          |                            | 0.04.7           | -/) /\.            | G             |
| I GENE    | b  |  | 14 4 drum                 | 5                        | ·                          |                  | · · · · ·          | 13            |
| RATOR     | c.   |  |                           |                          |                            |                  |                    |               |
|           | d.   |  |                           |                          |                            |                  |                    |               |
|           | D. Additional Descriptions for Materials Listed Abo  | ve   |                           |                          | E. Handling                | Codes for Was    | tes Listed Above   |               |
|           |  |  |                           |                          | -                          | FULTRATI         |                    |               |
| l         | 15. Special Handling Instructions and Additional Inf   |  |                           |                          |                            |                  |                    |               |
|           | THE SECTION OF SPORTS OF SPORTS OF SECTION O | Z(OGO) VELLEY<br>IN TEST KIT R<br>VELEVOROSES D  | oo<br>Esults<br>Me        | <b>5</b> 0%!             |                            |                  |                    |               |
|           | 16. GENERATOR'S CERTIFICATION: I certify the   | materials described above o  | n this manifest are not s | ubject to federal regula | itions for report          | ng proper dispos | al of Hazardous Wa | aste.         |
| <b>\</b>  | Printed/Typed Name   | 0  | Signature                 | ich m                    | Fall                       | m                | Month Day          | Year<br>2 198 |
| TRANSPORT | 17. Transporter 1 Acknowledgement of Receipt of I Printed/Typed Name   | Materials  | Signature                 | 1. Vin                   | Kux                        |                  | Month Day          | ر<br>8/اد     |
| ORTER     | 18. Transporter 2 Acknowledgement of Receipt of Printed/Typed Name   | Materials  | Signature                 | ·                        | <del></del>                | <del>* *</del>   | Month Day          | y Year        |
| FAC       | 19. Discrepancy Indication Space   |  |                           |                          |                            |                  |                    |               |
| LLIT      | 20. Facility Owner or Operator: Certification of rece  | eipt of waste materials cov  | vered by this manifest    | except as noted in It    | em 19.                     |                  |                    |               |
| Y         | Printed/Typed Name   |  | Signature                 |                          |                            |                  | Month Day          | y Year        |

# APPENDIX D UST DISPOSAL CERTIFICATE

= 1



= 1

#### MON **UTH COUNTY RECLAMATION CENTER**

TINTON FALLS, NJ

MAILING 6000 ASBURY AVE. ADDRESS: NEPTUNE, NJ 07753

#### CUSTOMER COPY

FACILITY I.D. NO. 1336F1SP01

### RECEIPT DOCUMENT NUMBER

MARP508937 MARPAL COMPANY PO BOX 188

01713605

MARP508937 MARPAL COMPANY R PO BOX 188

| DATE ENTRYTIME   OPER   EXIT TIME   OPER   & GROSS WEIGHT   | NJ 07738<br>2400.00 |
|---|---------------------|
| 1 CALL TO THE CONTRACT OF THE | 2400.00             |
|   |                     |
| 08/17/98 114/2 LIDIN TARE WEIGHT  | NET WEIGHT          |
| 11132 EEB ( 43920 LB) ( 36140 LB) (   | 7780 LB)            |
| OGRESON Scale 02 Scale 03   |                     |
| VEHICLE NUMBER VEHICLE TYPE PLATE NUMBER TRANSACTION TYPE   | 3 A9 T)             |
| 2065ZZ Rolloff XX77PH   |                     |
| Open so   |                     |
| DESCRIPTION/ORIGIN A UNITS I TINIT PER  | CE   AMOUNT         |
| 3.8900 12   Button 4.100   Comment  | THEORY              |
| MORIMONITU CONTINUE.  | 342.90              |
| EATONTOWN BOROUGH   |                     |
|   |                     |
|   |                     |
|   |                     |
| 1   | 100                 |
|   |                     |
|   |                     |
|   | 2179                |
|   | 2////               |
|   |                     |
|   | 1                   |
|   | .                   |
| hereby certify that the information provided on this form is true to the best of my knowledge.  |                     |
| "在这一样的是自己的人,我们就自己的人,我们就是一个人,我们就是一个人,我们就没有一个人,我们就没有一个人,我们就没有一个人,我们就没有一个人,我们就是一个人,  | will a              |
| J. A. V. L.   |                     |
| PRINTSIGNATURE  |                     |

# APPENDIX E SOIL ANALYTICAL DATA PACKAGE

#### US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY **NJDEPE # 13461**

#### REPORT OF ANALYSIS

Client:

U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Project:

Total Petroleum Hydrocarbons

98-0001

Bldg. 744

Project # 3737 Date Rec. 07/17/98 Date Compl. 07/20/98

Released by:

Daniel K. Wright Date:

Laboratory Director

## **Table of Contents**

| Section                          | Pages |
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## **Method Summary**

## NJDEP Method OQA-QAM-025-10/97

## Gas Chromatographic Determination of Total Petroleum Hydrocarbons in Soil

Fifteen grams (15g)(wet weight) of a soil sample is added to a 125 mL acid cleaned, solvent rinsed, capped Erlenmeyer flask. 15g anhydrous sodium sulfate is added to dry sample. Surrogate standard spiking solution is then added to the flask.

Twenty five milliliters(25mL) Methylene Chloride is added to the flask and it is secured on a gyrotory shaker table. The agitation rate is set to 400rpm and the sample is shaken for 30 minutes. The flask is the removed from the table and the particulate matter is allowed to settle. The extract is transferred to a Teflon capped vial. A second 25mL 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 1mL autosampler 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 solid, sample weight and concentration.

## PHC Conformance/Non-conformance Summary Report

|   | <u>No</u> | <u>Yes</u> |
|---|-----------|------------|
| 1.Method Detection Limits provided.   |           | _          |
| 2. Method Blank Contamination - If yes, list the sample and the corresponding concentrations in each blank  |           |            |
| 3. Matrix Spike Results Summary Meet Criteria. (If not met, list the sample and corresponding recovery which falls outside the acceptable range). | _         | <u>/</u>   |
| 4. Duplicate Results Summary Meet Criteria. (If not met, list the sample and corresponding recovery which falls outside the acceptable range).    | _         | <u> </u>   |
| 5. IR Spectra submitted for standards, blanks, & samples  | 1         | NA         |
| 6. Chromatograms submitted for standards, blanks, and samples if GC fingerprinting was conducted.   |           | _          |
| 7. Analysis holding time met.  (If not met, list number of days exceeded for each sample)   |           |            |
| Additional Comments:  |           |            |
|   |           |            |

## 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

## Fort Monmouth Environmental Testing Laboratory

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

Tel (732)532-4359 Fax (732)532-3484 EMail:appleby@doim6.monmouth.army.mil

NJDEP Certification #13461

**Chain of Custody Record** 

| Customer: Charle          | s Appleby                      | Project No:       |            | -0001       |         |  |              | Anal        | ysis F   | arameter                               | s           |          | Comments:                       |
|---------------------------|--------------------------------|-------------------|------------|-------------|---------|--|--------------|-------------|--|--|-------------|----------|---------------------------------|
| Phone #: X26224           |                                | Location: E       | 3.744      | /           |         |  | S            |             |  |  |             |          | * = Samples Kept <4 Celsius     |
| ()DERA (X)OMA             | UST Assessment                 | UST# 8/5          | 33-11      | 8           |         | ]  |              | -15         |  |  |             |          |                                 |
| Samplers Name /           | Company : Gary DiMa            | rtinis TVS        |            | Sample      | ; #     | TPHC   | % SOLIDS     | VOA+15      |  |  |             | OVA      |                                 |
| Lab Sample I.D.           | Sample Location                | Date              | Time       | Туре        | bottles |  | %            | λ           | VC   | A ID Nu                                | mber        | 0        | Remarks / Preservation Method   |
| 3737. 01                  | 744-A                          | 7-17-98           | 1349       | SOIL        | j       | $\geq$   | $\boxtimes$  |             |  |  |             | ND       | EXC. FLOOR@8.5' *               |
| 02                        | B                              |                   | 1346       |             |         |  |              |             |  |  |             | an       | EXC. FLUIR@8.5' * SIDEWALLES.5' |
| 03                        | C -                            |                   | 1338       |             |         |  |              |             |  |  |             | ND       |                                 |
| 04                        | $\mathcal{D}$                  |                   | 1342       |             |         |  |              |             |  | ·                                      |             | ND       |                                 |
| 05                        | $\epsilon$                     |                   | 1344       |             |         |  |              |             |  | ······································ |             | NB       | V                               |
| 06                        | F                              |                   | /337       |             |         |  |              |             | <u>.                                      </u> |  |             | NO       | Piping RUNQ 1.0'                |
| 07                        | DUP                            | <b>V</b>          |            | <b>&gt;</b> |         |  | $\downarrow$ |             |  |  | ···         | _        | FIEDD DUPLICATE Y               |
|                           |                                |                   |            |             | ļ       | ļ  |              |             |  |  |             |          |                                 |
|                           |                                |                   |            |             |         |  |              |             |  |  | <del></del> |          |                                 |
|                           |                                |                   |            |             |         | :  |              |             |  |  | ····        |          |                                 |
|                           |                                |                   |            |             | ļ       |  |              |             |  |  |             |          |                                 |
|                           |                                |                   |            |             |         |  |              |             |  | ·····                                  |             |          |                                 |
|                           |                                |                   |            |             |         | <u> </u>   |              |             |  |  | - 00:       |          |                                 |
| Note: OV                  | A(#A/51903) Calibrated         | With 95 p         | om Metha   | ane &       | Zero    | Air @  | <u>/3</u> .  | 30          | on   | 7-17                                   | -98         | by       | Gary DiMartinis                 |
| Relinquished by signatur  | 7 / \                          | Received by (s    | _          | ,           | Reline  | quished  | by (sig      | nature):    |  | Date/Time                              | Receiv      | ved by ( | signature):                     |
| MAJUIGE                   | 7-17-98 1430                   | X-[/]/1           | Jus        | <u>ر</u>    |         | <del></del>  |              |             |  |  |             |          |                                 |
| Relinquished by (signatur | re): Date/Time:                | Received by (s    | ignature): |             | Relind  | linquished by (signature): Date/Time: Received by (signature): |              | signature): |  |  |             |          |                                 |
| ···                       |                                |                   | /<br>      |             |         |  |              |             |  |  | <u> </u>    |          |                                 |
|                           | Reduced, (_)Standard, (_)Scree | en / non-certifie | d          |             |         | Remar  | ks:          |             |  | Dedic                                  | ated Sa     | mpling   | g Tools Used                    |
| Turnaround time: Stand    | lard 4 wks, (_)Rush Days       | , (_)ASAP Ver     | balHrs     | 3.          |         |  |              |             |  |  |             |          |                                 |

Client:

U.S. Army

Lab. ID#:

3737

DPW. SELFM-PW-EV

Date Rec'd:

17-Jul-98

Bldg. 173

**Analysis Start:** 

20-Jul-98

Ft. Monmouth, NJ 07703

Analysis Complete:

20-Jul-98

Analysis:

OQA-QAM-025

UST Reg. #:

Matrix:

Soil

Closure #:

Analyst:

D.DEINHARDT

DICAR #:

Fyt Meth:

Shake

Location #:

B. 744

| Ext. Meth:      | Shake    |                    |            | Location #: |             | B. /44                 |
|-----------------|----------|--------------------|------------|-------------|-------------|------------------------|
| Sample          | Field ID | Dilution<br>Factor | Weight (g) | % Solid     | MDL (mg/kg) | TPHC Result<br>(mg/kg) |
| 3737.01         | 744-A    | 1.00               | 15.10      | 68.66       | 227         | ND                     |
| 3737.02         | 744-B    | 1.00               | 15.61      | 75.56       | 199         | ND                     |
| 3737.03         | 744-C    | 1.00               | 15.53      | 79.78       | 190         | ND                     |
| 3737.04         | 744-D    | 1.00               | 15.37      | 67.87       | 225         | ND                     |
| 3737.05         | 744-E    | 1.00               | 15.30      | 81.29       | 189         | ND                     |
| 3737.06         | 744-F    | 1.00               | 15.22      | 88.08       | 175         | ND                     |
| 3737.07         | 744-DUP  | 1.00               | 15.23      | 87.23       | 177         | ND                     |
|                 |          |                    |            |             |             |                        |
|                 |          |                    |            |             |             |                        |
|                 |          |                    |            |             |             |                        |
| -               |          |                    |            |             |             |                        |
|                 |          |                    |            |             |             |                        |
|                 |          |                    |            |             |             |                        |
|                 |          |                    |            |             |             |                        |
|                 |          |                    |            |             |             |                        |
| <u> </u>        |          |                    |            |             |             |                        |
| <u></u> <u></u> |          |                    |            |             |             |                        |
|                 |          |                    |            |             |             |                        |
|                 |          |                    |            |             |             |                        |
|                 |          |                    |            |             |             |                        |
|                 |          |                    |            |             |             |                        |
| METHOD BLANK    | TBLK 137 | 1.00               | 15.00      | 100.00      | 157         | ND                     |

ND = Not Detected

MDL = Method Detection Limit

Daniel K. Wright

Laboratory Director

## Calrpt

## Response Factor Report GC/MS Ins

: C:\HPCHEM\1\METHODS\TPH43.M (Chemstation Integrator) Method

Title : TPHC Calibration 06/05/97 21 peaks

Last Update : Thu Jun 11 14:59:41 1998

| Calibration I | Tiles |
|---------------|-------|
|---------------|-------|

| 100 | =T05959.D | 50 | =T05960.D | 20 | =T05961.D |
|-----|-----------|----|-----------|----|-----------|
|     |           |    |           |    |           |

=T05963.D 10 =T05962.D 5

|     |     | Compound     | 100   | 50    | 20    | 10      | 5      | Avg   | <b></b> | %RSD   |
|-----|-----|--------------|-------|-------|-------|---------|--------|-------|---------|--------|
| 1)  | tC  |              | 2.277 | 2.425 | 2.559 | 2.711   | 2.206  | 2.436 | E4      | 8.43   |
| 2)  | tC  | C10          |       |       |       | 2.930   |        |       |         | 6.68   |
| 3)  | TC  | C12          | 2.776 | 2.935 | 3.075 | 3.239   | 2.766  | 2.958 | E4      | 6.83   |
| 4)  | tC  | C14          |       |       |       | 3.430   |        | 3.112 |         | 7.18   |
| 5)  | tC  | C16          | 2.966 | 3.159 | 3.344 | 3.568   | 3.053  | 3.218 | E4      | 7.49   |
|     | tC  | C18          | 3.349 | 3.613 | 3.893 | 4.085   | 3.562  | 3.701 | E4      | 7.82   |
| •   | tC  | C20          |       |       |       | 3.915   |        |       |         | 7.50   |
| -   | tC  | C22          | 3.199 | 3.420 | 3.607 | 3.844   | 3.278  | 3.469 | E4      | 7.51   |
|     | tC  | C24          |       |       |       | 3.904   |        |       |         | 7.37   |
| 10) | tC  | C26          | 3.255 | 3.476 | 3.650 | 3.866   | 3.319  | 3.513 | E4      | 7.10   |
| 11) | tC  | C28          | 3.293 |       |       | 3.893   |        |       |         | 7.11   |
| 12) |     | C30          |       |       |       | 3.976   |        |       |         | 7.05   |
| 13) |     | C32          |       |       |       | 4.024   |        |       |         | 6.97   |
| 14) |     | C34          |       |       |       | 4.220   |        |       |         | 7.80   |
| 15) |     | .C36         | 3.385 |       |       | 4.279   |        |       |         | 9.25   |
| 16) |     | C38          | 3.166 |       |       | 4.459   |        |       |         | 12.84  |
| 17) |     | C40          | 2.828 | 3.816 |       | 4.438   |        |       |         | 16.86  |
| 18) | tC  | c42          |       | 3.759 |       | 4.447   |        |       |         | 19.91  |
| 19) | TC  | Pristane     |       |       |       | 3.726   |        |       |         | 7.21   |
| 20) | TC  | Phytane      | 3.270 |       |       | 3.945   |        |       |         | 7.59   |
| 21) |     | o-terphenyl  | 3.907 |       |       | 4.703   |        |       |         | 7.46   |
| 22) |     | TPHC - total | 3.313 | 3.705 | 4.003 | 4.287   | 3.910  | 3.844 | E4      | 9.44   |
| (#) | = 0 | ut of Range  |       |       |       | MEAN A' | VERAGE | RSD%  |         | = 8.79 |

Tue Jul 07 08:38:13 1998

(#) = Out of Range

TPH43.M

## Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\980720\T06221.D

Vial: 2 Operator: Deinhardt Acq On : 20 Jul 98 10:07 am Inst : GC/MS Ins Sample : 50 PPM STANDARD

Multiplr: 1.00 Misc

IntFile : TPHCINT.E

: C:\HPCHEM\1\METHODS\TPH43.M (Chemstation Integrator) Method

: TPHC Calibration 06/05/97 21 peaks Title

Last Update : Thu Jul 09 13:23:26 1998 Response via : Multiple Level Calibration

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

Max. RRF Dev: 15% Max. Rel. Area: 200%

|    |    | Compound     | AvgRF  | CCRF      | %Dev  | Area% | Dev(min) |
|----|----|--------------|--------|-----------|-------|-------|----------|
| 1  | tC | <br>         | 24.358 | 25.634 E3 | -5.2  | 116   | 0.00     |
|    | tC | C10          | 26.836 | 29.553 E3 | -10.1 | 124   | 0.00     |
|    | TC | C12          | 29.584 | 32.906 E3 | -11.2 | 125   | 0.00     |
|    | tC | C14          | 31.125 | 33.821 E3 | -8.7  | 122   | 0.00     |
|    | tC | C16          | 32.180 | 34.356 E3 | -6.8  | 121   | 0.00     |
|    | tC | C18          | 37.007 | 39.085 E3 | -5.6  | 118   | 0.00     |
|    | tC | C20          | 35.326 | 37.784 E3 | -7.0  | 120   | 0.00     |
|    | tC | C22          | 34.694 | 37.127 E3 | -7.0  | 119   | 0.00     |
|    | tC | C24          | 35.318 | 37.880 E3 | -7.3  | 120   | 0.00     |
| 10 |    | C26          | 35.130 | 37.807 E3 | -7.6  | 121   | 0.00     |
|    | tC | C28          | 35.380 | 38.134 E3 | -7.8  | 124   | 0.00     |
| 12 |    | C30          | 36.331 | 39.665 E3 | -9.2  | 129   | 0.00     |
|    | tC | C32          | 36.742 | 39.673 E3 | -8.0  | 129   | 0.00     |
| 14 |    | C34          | 38.289 | 42.004 E3 | -9.7  | 131   | 0.00     |
|    | tC | C36          | 38.627 | 44.643 E3 | -15.6 | 140   | 0.00     |
|    | tC | C38          | 39.462 | 47.501 E3 | -20.4 | 149   | 0.00     |
|    | tC | C40          | 38.666 | 45.676 E3 | -18.1 | 151   | 0.00     |
|    | tC | C42          | 38.058 | 42.210 E3 | -10.9 | 149   | 0.02     |
| 19 | TC | Pristane     | 33.965 | 36.094 E3 | -6.3  | 120   | 0.00     |
|    |    | Phytane      | 35.539 | 38.083 E3 | -7.2  | 120   | 0.00     |
|    | sC | o-terphenyl  | 42.449 | 45.324 E3 | -6.8  | 120   | 0.00     |
|    | tC | TPHC - total | 38.436 | 41.515 E3 | -8.0  | 125   | 0.00     |

## Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\980720\T06232.D

Vial: 13 Operator: Deinhardt Acq On : 20 Jul 98 8:21 Sample : 50 PPM STANDARD 8:21 pm Inst : GC/MS Ins Sample

Multiplr: 1.00 Misc

IntFile : TPHCINT.E

: C:\HPCHEM\1\METHODS\TPH43.M (Chemstation Integrator) Method

: TPHC Calibration 06/05/97 21 peaks Title

Last Update : Thu Jul 09 13:23:26 1998 Response via : Multiple Level Calibration

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

Max. RRF Dev : 15% Max. Rel. Area : 200%

|       | Compound     | AvgRF  | CCRF      | %Dev   | Area% | Dev(min) |
|-------|--------------|--------|-----------|--------|-------|----------|
| 1 tC  |              | 24.358 | 24.326 E3 | 0.1    | 110   | 0.00     |
| 2 tC  | C10          | 26.836 | 28.726 E3 | -7.0   | 120   | 0.00     |
| 3 TC  | C12          | 29.584 | 31.920 E3 | -7.9   | 121   | 0.00     |
| 4 tC  | C14          | 31.125 | 32.827 E3 | -5.5   | 119   | 0.00     |
| 5 tC  | C16          | 32.180 | 33.512 E3 | -4.1   | 118   | 0.00     |
| 6 tC  | C18          | 37.007 | 38.141 E3 | -3.1   | 115   | 0.00     |
| 7 tC  | C20          | 35.326 | 36.786 E3 | -4.1   | 117   | 0.00     |
| 8 tC  | C22          | 34.694 | 36.146 E3 | -4.2   | 116   | 0.00     |
| 9 tC  | C24          | 35.318 | 37.128 E3 | -5.1   | 117   | 0.01     |
| 10 tC | C26          | 35.130 | 37.146 E3 | -5.7   | 119   | 0.01     |
| 11 tC | C28          | 35,380 | 37.636 E3 | -6.4   | 123   | 0.01     |
| 12 tC | C30          | 36.331 | 38.732 E3 | -6.6   | 126   | 0.00     |
| 13 tC | C32          | 36.742 | 39.108 E3 | -6.4   | 127   | 0.00     |
| 14 tC | C34          | 38.289 | 41.695 E3 | -8.9   | 130   | 0.00     |
| 15 tC | C36          | 38.627 | 45.136 E3 | -16.9  | 141   | 0.01     |
| 16 tC | C38          | 39.462 | 50.260 E3 | -27.4# |       | 0.02     |
| 17 tC | C40          | 38.666 | 51.338 E3 | -32.8# |       | 0.03     |
| 18 tC | c42          | 38.058 | 49.520 E3 | -30.1# |       | 0.04     |
| 19 TC | Pristane     | 33.965 | 34.644 E3 | -2.0   | 115   | 0.00     |
| 20 TC | Phytane      | 35.539 | 36.928 E3 | -3.9   | 117   | 0.00     |
| 21 sC | o-terphenyl  | 42.449 | 44.155 E3 | -4.0   | 117   | 0.00     |
| 22 tC | TPHC - total | 38.436 | 41.546 E3 | -8.1   | 125   | 0.00     |

## **Surrogate Recovery Report**

Lab. ID#:

3737

Location #: B. 744

| Sample       |  | Surrogate<br>Added (ppm) | Amount<br>Recovered<br>(ppm) | Percent<br>Recovery |
|--------------|--|--------------------------|------------------------------|---------------------|
| 3737.01      |  | 10.00                    | 8.78                         | 87.82               |
| 3737.02      |  | 10.00                    | 8.64                         | 86.40               |
| 3737.03      |  | 10.00                    | 8.84                         | 88.41               |
| 3737.04      |  | 10.00                    | 8.52                         | 85.24               |
| 3737.05      |  | 10.00                    | 9.05                         | 90.45               |
| 3737.06      |  | 10.00                    | 9.28                         | 92.83               |
| 3737.07      |  | 10.00                    | 9.59                         | 95.85               |
|              |  |                          |                              |                     |
|              |  |                          |                              |                     |
|              |  |                          |                              |                     |
|              |  |                          |                              |                     |
|              |  |                          |                              |                     |
|              | <u> </u>   |                          |                              |                     |
|              | <del></del>                                      |                          | -                            |                     |
|              |  |                          |                              |                     |
|              |  | <u> </u>                 |                              |                     |
|              |  |                          |                              |                     |
|              |  |                          |                              |                     |
|              | <del>                                     </del> |                          |                              |                     |
| METHOD BLANK | TBLK 137   | 10.00                    | 9.14                         | 91.38               |

Surrogate Added :

o-Terphenyl

## **Matrix Spike Recovery Report**

Lab. ID#:

3737

Location #:

B. 744

| Sample     | Spike Amount<br>Added (ppm) | Sample Amount<br>(ppm) | Matrix Spike<br>Amount (ppm) | Percent<br>Recovery | QC Limits<br>% |
|------------|-----------------------------|------------------------|------------------------------|---------------------|----------------|
| 3737.01MS  | 1000                        | 0.00                   | 840.88                       | 84.09               | 75-125         |
| 3737.01MSD | 1000                        | 0.00                   | 771.27                       | 77.13               | 75-125         |

| RPD <b>8.64 20.00</b> |
|-----------------------|
|-----------------------|

## **Blank Spike Recovery Report**

Lab. ID#:

3737

Location #:

B. 744

| Sample      | Date Extracted |      | Matrix Spike<br>Amount (ppm) | Percent<br>Recovery | QC Limits<br>% |
|-------------|----------------|------|------------------------------|---------------------|----------------|
| Blank Spike | 20-Jul-98      | 1000 | 881.44                       | 88.14               | 75-125         |

Data File : C:\HPCHEM\1\DATA\980720\T06231.D

Vial: 12 Operator: Deinhardt

Acq On : 20 Jul 98 7:29 pm

Inst : GC/MS Ins

Sample : 3737.01 Misc

Multiplr: 1.00

IntFile : TPHCINT.E

Quant Time: Jul 21 8:07 1998 Quant Results File: TPH43.RES

Quant Method : C:\HPCHEM\1\METHODS\TPH43.M (Chemstation Integrator)

Title : TPHC Calibration 06/05/97 21 peaks

Last Update : Thu Jul 09 13:23:26 1998

Response via : Initial Calibration

DataAcq Meth: TPH43.M

Volume Inj. : 1 ul Signal Phase: HP-5

Signal Info : 30m x 0.32mm

R.T. Response Conc Units Compound

System Monitoring Compounds

13.91 372770 8.782 mg/L 21) sC o-terphenyl 13.91 372770 8.782 mg/ Spiked Amount 10.000 Range 8 - 13 Recovery = 87.82%#

Target Compounds

Data File : C:\HPCHEM\1\DATA\980720\T06231.D

Vial: 12

Acq On : 20 Jul 98 7:29 pm

Operator: Deinhardt Inst : GC/MS Ins

Sample : 3737.01 Misc :

Multiplr: 1.00

IntFile : TPHCINT.E

Quant Time: Jul 21 8:07 1998 Quant Results File: TPH43.RES

Quant Method : C:\HPCHEM\1\METHODS\TPH43.M (Chemstation Integrator)

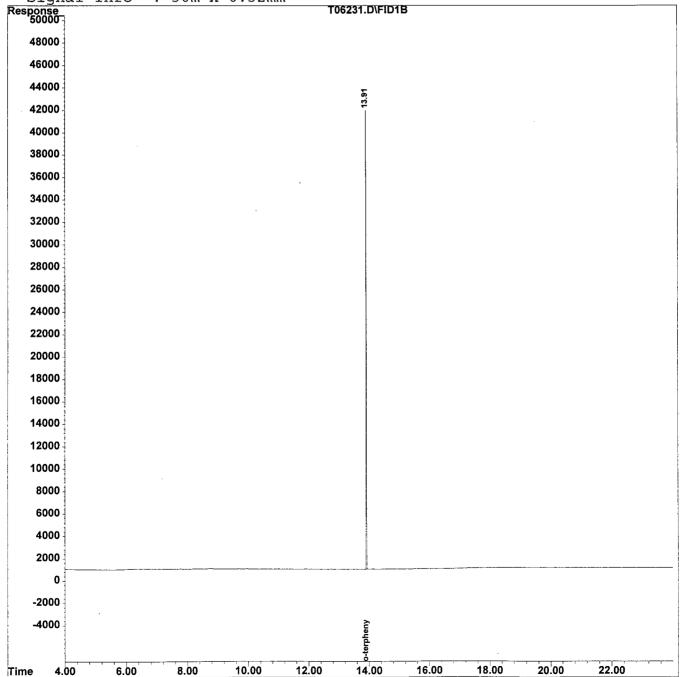
Title : TPHC Calibration 06/05/97 21 peaks

Last Update : Thu Jul 09 13:23:26 1998 Response via : Multiple Level Calibration

DataAcq Meth: TPH43.M

Volume Inj. : 1 ul Signal Phase : HP-5

Signal Info :  $30m \times 0.32mm$ 



Data File : C:\HPCHEM\1\DATA\980720\T06235.D Vial: 16

Operator: Deinhardt Acq On : 20 Jul 98 10:52 pm Sample : 3737.02 Inst : GC/MS Ins

Multiplr: 1.00 Misc

IntFile : TPHCINT.E

Quant Time: Jul 21 8:10 1998 Quant Results File: TPH43.RES

Ouant Method: C:\HPCHEM\1\METHODS\TPH43.M (Chemstation Integrator)

Title : TPHC Calibration 06/05/97 21 peaks

Last Update : Thu Jul 09 13:23:26 1998

Response via : Initial Calibration

DataAcq Meth: TPH43.M

Volume Inj. : 1 ul Signal Phase : HP-5

Signal Info : 30m x 0.32mm

R.T. Response Conc Units Compound

System Monitoring Compounds

System Monitoring Compounds
21) sC o-terphenyl 13.91 366748 8.640 mg/L
Spiked Amount 10.000 Range 8 - 13 Recovery = 86.40%#

Target Compounds

Data File : C:\HPCHEM\1\DATA\980720\T06235.D

Vial: 16

Acq On : 20 Jul 98 10:52 pm

Operator: Deinhardt Inst : GC/MS Ins

Sample : 3737.02

Multiplr: 1.00

Misc : IntFile : TPHCINT.E

Quant Time: Jul 21 8:10 1998 Quant Results File: TPH43.RES

Quant Method : C:\HPCHEM\1\METHODS\TPH43.M (Chemstation Integrator)

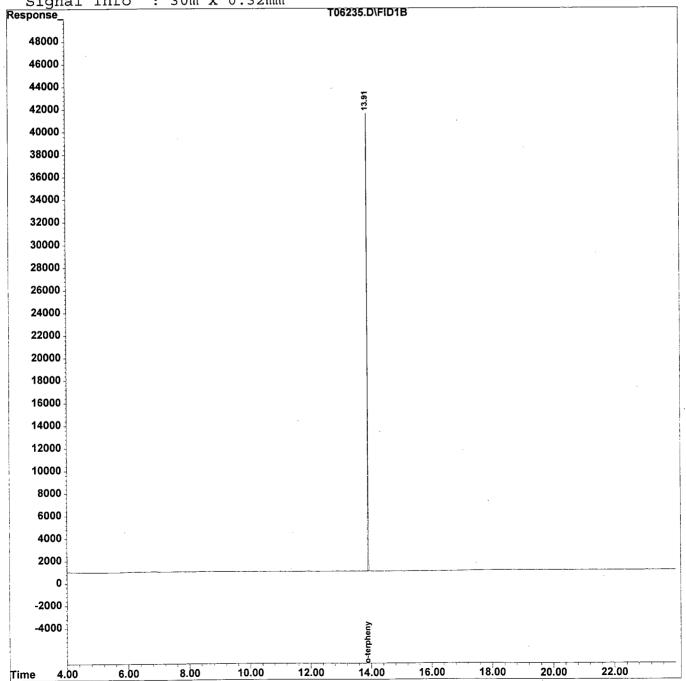
Title : TPHC Calibration 06/05/97 21 peaks

Last Update : Thu Jul 09 13:23:26 1998 Response via : Multiple Level Calibration

DataAcq Meth : TPH43.M

Volume Inj. : 1 ul Signal Phase : HP-5

Signal Info :  $30m \times 0.32mm$ 



Data File : C:\HPCHEM\1\DATA\980720\T06236.D

Vial: 17 Operator: Deinhardt

Acq On : 20 Jul 98 11:42 pm Sample : 3737.03

Inst : GC/MS Ins

Misc

Multiplr: 1.00

IntFile : TPHCINT.E

Ouant Time: Jul 21 8:10 1998 Quant Results File: TPH43.RES

Quant Method : C:\HPCHEM\1\METHODS\TPH43.M (Chemstation Integrator)

Title : TPHC Calibration 06/05/97 21 peaks

Last Update : Thu Jul 09 13:23:26 1998

Response via : Initial Calibration

DataAcq Meth : TPH43.M

Volume Inj. : 1 ul Signal Phase : HP-5

Signal Info : 30m x 0.32mm

Compound R.T. Response Conc Units

System Monitoring Compounds

13.91 375272 8.841 mg/L 21) sC o-terphenyl 13.91 375272 8.841 mg/ Spiked Amount 10.000 Range 8 - 13 Recovery = 88.41%#

Target Compounds

Data File: C:\HPCHEM\1\DATA\980720\T06236.D

Vial: 17 Operator: Deinhardt

: 20 Jul 98 Acq On Sample : 3737.03

Inst : GC/MS Ins

Misc

Multiplr: 1.00

IntFile : TPHCINT.E

Quant Time: Jul 21 8:10 1998 Quant Results File: TPH43.RES

11:42 pm

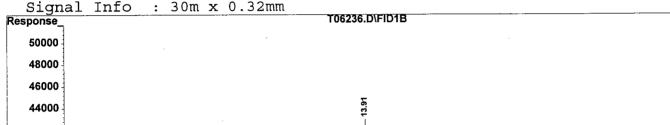
Quant Method: C:\HPCHEM\1\METHODS\TPH43.M (Chemstation Integrator)

: TPHC Calibration 06/05/97 21 peaks Title

Last Update : Thu Jul 09 13:23:26 1998 Response via : Multiple Level Calibration

DataAcq Meth : TPH43.M

Volume Inj. : 1 ul Signal Phase : HP-5



14.00

16.00

18.00

20.00

12.00

22.00

4.00

Time

8.00

6.00

10.00

Data File : C:\HPCHEM\1\DATA\980720\T06237.D Vial: 18

Acq On : 21 Jul 98 12:31 am Sample : 3737.04 Operator: Deinhardt Inst : GC/MS Ins

Multiplr: 1.00 Misc

IntFile : TPHCINT.E

Quant Time: Jul 21 8:10 1998 Quant Results File: TPH43.RES

Ouant Method : C:\HPCHEM\1\METHODS\TPH43.M (Chemstation Integrator)

Title : TPHC Calibration 06/05/97 21 peaks
Last Update : Thu Jul 09 13:23:26 1998
Response via : Initial Calibration

DataAcq Meth : TPH43.M

Volume Inj. : 1 ul

Signal Phase : HP-5 Signal Info : 30m x 0.32mm

R.T. Response Conc Units Compound

System Monitoring Compounds
21) sC o-terphenyl 13.91 361843 8.524 mg/L
Spiked Amount 10.000 Range 8 - 13 Recovery = 85.24%#

Target Compounds

Data File : C:\HPCHEM\1\DATA\980720\T06237.D

Vial: 18

Acq On : 21 Jul 98 12:31 am

Operator: Deinhardt Inst : GC/MS Ins

Sample : 3737.04

Multiplr: 1.00

Misc :

IntFile

: TPHCINT.E

Quant Time: Jul 21 8:10 1998 Quant Results File: TPH43.RES

Quant Method : C:\HPCHEM\1\METHODS\TPH43.M (Chemstation Integrator)

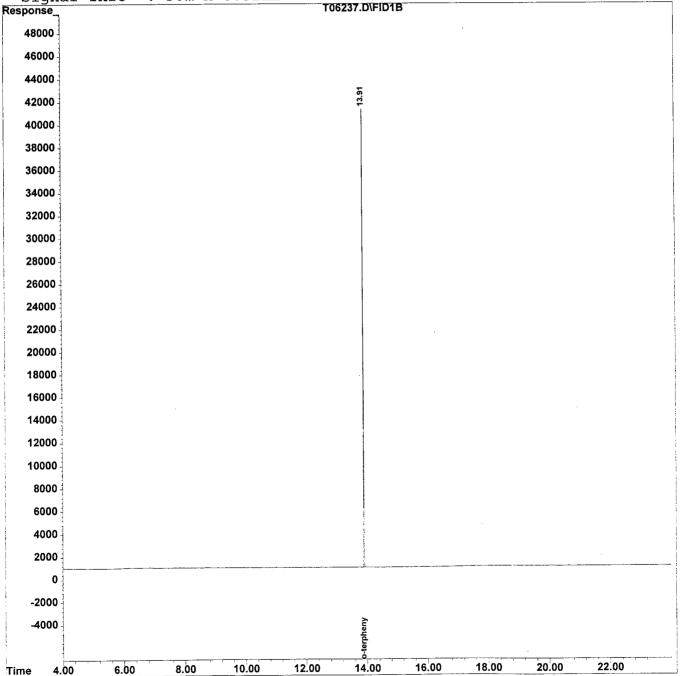
Title : TPHC Calibration 06/05/97 21 peaks

Last Update : Thu Jul 09 13:23:26 1998 Response via : Multiple Level Calibration

DataAcq Meth : TPH43.M

Volume Inj. : 1 ul Signal Phase : HP-5

Signal Info : 30m x 0.32mm



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Data File : C:\HPCHEM\1\DATA\980720\T06238.D

Vial: 19 Acq On : 21 Jul 98 1:19 am Operator: Deinhardt Sample : 3737.05 Inst : GC/MS Ins

Multiplr: 1.00

Misc : IntFile : TPHCINT.E

Ouant Time: Jul 21 8:11 1998 Quant Results File: TPH43.RES

Quant Method : C:\HPCHEM\1\METHODS\TPH43.M (Chemstation Integrator)

Title : TPHC Calibration 06/05/97 21 peaks

Last Update : Thu Jul 09 13:23:26 1998 Response via : Initial Calibration

DataAcq Meth: TPH43.M

Volume Inj. : 1 ul Signal Phase : HP-5

Signal Info : 30m x 0.32mm

R.T. Response Conc Units Compound

System Monitoring Compounds System Monitoring Compounds
21) sC o-terphenyl 13.91 383932 9.045 mg/L
Spiked Amount 10.000 Range 8 - 13 Recovery = 90.45%#

Target Compounds

Data File : C:\HPCHEM\1\DATA\980720\T06238.D

Vial: 19

: 21 Jul 98 1:19 am Acq On

Operator: Deinhardt : GC/MS Ins Inst

Sample : 3737.05

Multiplr: 1.00

Misc

IntFile : TPHCINT.E

Quant Time: Jul 21 8:11 1998 Quant Results File: TPH43.RES

Quant Method : C:\HPCHEM\1\METHODS\TPH43.M (Chemstation Integrator)

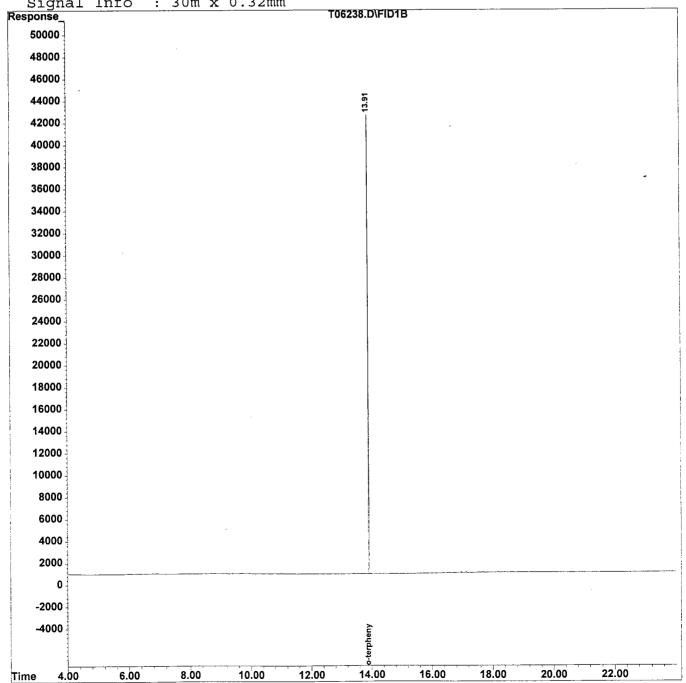
: TPHC Calibration 06/05/97 21 peaks Title

Last Update : Thu Jul 09 13:23:26 1998 Response via : Multiple Level Calibration

DataAcq Meth : TPH43.M

Volume Inj. : 1 ul Signal Phase : HP-5

Signal Info  $: 30m \times 0.32mm$ 



Data File : C:\HPCHEM\1\DATA\980720\T06239.D

Vial: 20

Acq On : 21 Jul 98 2:07 am

Operator: Deinhardt

Sample : 3737.06 Inst : GC/MS Ins

Misc

Multiplr: 1.00

: TPHCINT.E IntFile

Quant Time: Jul 21 8:11 1998 Quant Results File: TPH43.RES

Quant Method : C:\HPCHEM\1\METHODS\TPH43.M (Chemstation Integrator)

: TPHC Calibration 06/05/97 21 peaks Title

Last Update : Thu Jul 09 13:23:26 1998

Response via : Initial Calibration

DataAcq Meth: TPH43.M

Volume Inj. : 1 ul Signal Phase : HP-5

Signal Info :  $30m \times 0.32mm$ 

| Compound  | R.T.            | Response             | Conc Units            |
|---|-----------------|----------------------|-----------------------|
| System Monitoring Compounds<br>21) sC o-terphenyl<br>Spiked Amount 10.000 Range | 13.91<br>8 - 13 | 394057<br>Recovery = | 9.283 mg/L<br>92.83%# |
| Target Compounds  |                 |                      |                       |
| 9) tC C24   | 15.04           | 1368                 | $0.039~{ m mg/L}$     |
| 12) tC C30  | 16.96           | 2960                 | 0.081 mg/L            |
| 13) tC C32  | 17.54           | 1090                 | 0.030 mg/L            |
| 15) tC C36  | 18.66           | 1777                 | 0.046 mg/L            |
| 22) tC TPHC - total   | 13.91           | 1171535              | 30.480 mg/L m         |

Data File : C:\HPCHEM\1\DATA\980720\T06239.D

Vial: 20

Acq On : 21 Jul 98 2:07 am Sample : 3737.06

Operator: Deinhardt Inst : GC/MS Ins

Multiplr: 1.00

Misc :

IntFile : TPHCINT.E

Quant Time: Jul 21 8:11 1998 Quant Results File: TPH43.RES

Quant Method : C:\HPCHEM\1\METHODS\TPH43.M (Chemstation Integrator)

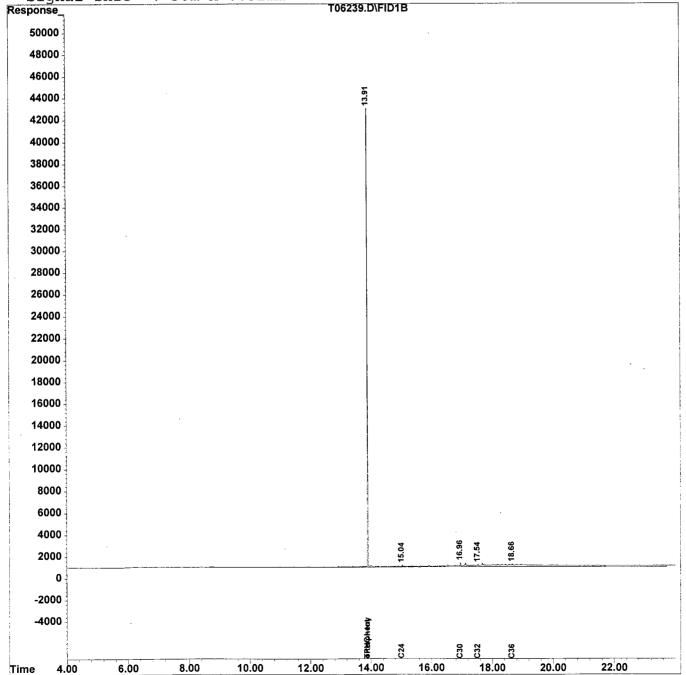
Title : TPHC Calibration 06/05/97 21 peaks

Last Update : Thu Jul 09 13:23:26 1998 Response via : Multiple Level Calibration

DataAcq Meth : TPH43.M

Volume Inj. : 1 ul Signal Phase : HP-5

Signal Info : 30m x 0.32mm



Data File : C:\HPCHEM\1\DATA\980720\T06240.D

Vial: 21 Acq On : 21 Jul 98 2:54 am Operator: Deinhardt Sample : 3737.07 Inst : GC/MS Ins

Multiplr: 1.00 Misc

IntFile : TPHCINT.E

Ouant Time: Jul 21 8:12 1998 Quant Results File: TPH43.RES

Ouant Method : C:\HPCHEM\1\METHODS\TPH43.M (Chemstation Integrator)

Title : TPHC Calibration 06/05/97 21 peaks

Last Update : Thu Jul 09 13:23:26 1998

Response via: Initial Calibration

DataAcq Meth : TPH43.M

Volume Inj. : 1 ul Signal Phase : HP-5

Signal Info : 30m x 0.32mm

R.T. Response Conc Units Compound

System Monitoring Compounds

21) sC o-terphenyl 13.91 406882 9.585 mg/L Spiked Amount 10.000 Range 8 - 13 Recovery = 95.85%#

Target Compounds

Data File : C:\HPCHEM\1\DATA\980720\T06240.D

Vial: 21

Acq On : 21 Jul 98 2:54 am Operator: Deinhardt : GC/MS Ins Sample : 3737.07

Multiplr: 1.00 Misc

IntFile : TPHCINT.E

Quant Time: Jul 21 8:12 1998 Quant Results File: TPH43.RES

Quant Method: C:\HPCHEM\1\METHODS\TPH43.M (Chemstation Integrator)

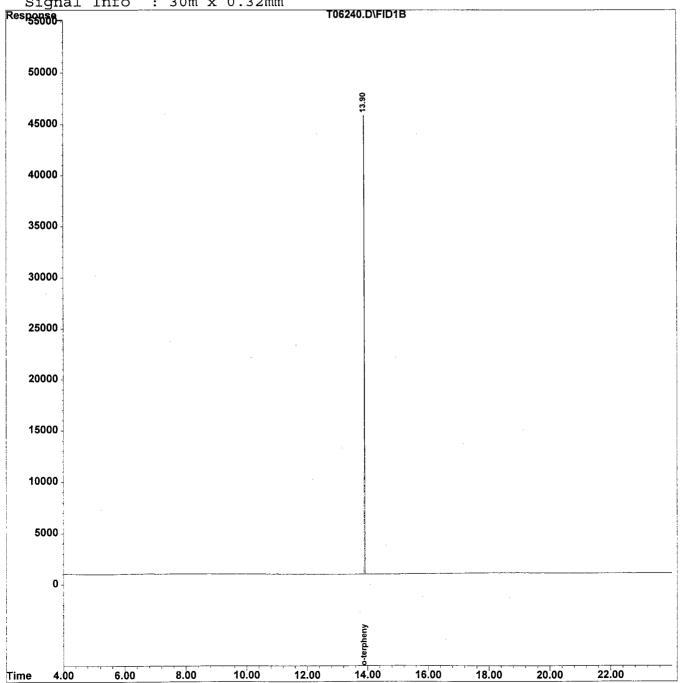
Title : TPHC Calibration 06/05/97 21 peaks

Last Update : Thu Jul 09 13:23:26 1998 Response via : Multiple Level Calibration

DataAcq Meth : TPH43.M

Volume Inj. : 1 ul Signal Phase: HP-5

Signal Info : 30m x 0.32mm



#### 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 packages will be returned or held without review until the data package is completed.

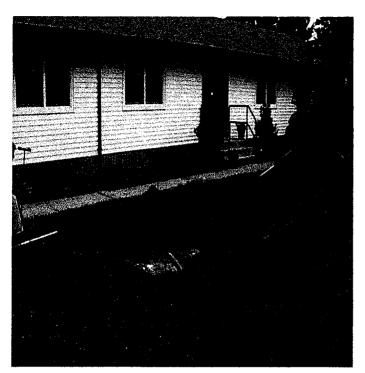
It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package <u>and</u> in the main body of the report.

| 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  |  |
|      |   |  |
|      | oratory Manager or Environmental Consultant's Signature   |  |
| I ah | oratory Certification #13461  |  |

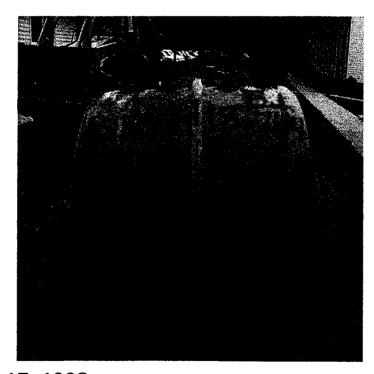
\*Refer to NJAC 7:26E - Appendix A, Section IV - Reduced Data Deliverables - Non-USEPA/CLP Methods for further guidance.

APPENDIX F
PHOTOGRAPHS

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# JULY 17, 1998 PHOTOGRAPHIC LOG

UST NO. 81533-118
BUILDING 744
Main Post-West
Fort Monmouth

VERSAR Engineers, Managers, Scientists & Planners Bristol, PA